

riskHive Online ERM System User Manual V6 r110

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Call us on +44 1275 54 58 74



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Refer to our FAQ, Feedback and Support, which is available to you from the help menu in the application

riskHive Enterprise Risk Manager

The riskHive ERM is a fully featured, online Enterprise Risk Management and Risk Register Handling solution. As a web-based tool it is constantly being updated with the latest and best functionality to support evolving needs of high-end risk managers and senior executives in large, complex businesses.

The central risk repository is used for collating and storing risk registers with essential risk reports and quickly and effectively centralises and maintains your risk registers whilst not changing the way you work by allowing the export of registers back to your native format.

The core system is designed to manage risk treatment information; produce management reports and information dashboards; manage asset and insurance information; and produce bowtie diagrams and graphics for better risk articulation. The riskHive ERM is aligned to both the ISO 31000 and COSO frameworks¹ and is highly configurable by the User-administrator. The system can be configured to be multilingual and to display your own risk terminology. Multiple currencies can be managed for assessment and reporting and are User-switchable.

You can run cost and schedule analysis; manage information security risks in line with ISO 27001; and manage control assurance information.

This guide covers functionality available in the system for Users, Risk Managers and Administrators. One of the many advantages of this system is its configurable nature. This means that each Company can request different configurable features or even have features removed. Due to this, this manual may not display the same functionality as you experience in the tool. Contact your administrator for a list of their configuration changes.

We hope you find Enterprise Risk Manager useful and easy to operate. We are eager to hear your feedback - either positive or critical - and ideas. Our contact information is provided above.

We hope you have an enjoyable and productive experience!

¹ Appendix 1 – ERM functionality link to ISO 31000 & the COSO frameworks Classification: Internal

Version Update Notes

In this latest addition of the Help Manual, we have included:

Ref	Section	Description	Page
Dev-068	1	Updated Application Hosting – Operating System Information	14
Dev-332	5.4.3.1	Nuances for users display when not enabled with tree view permissions – New section to provide more detail around user selection options when using parent/child register aggregation.	49
Dev-375	5.4.7.1	Calculate Headline Quantitative Score New functionality to be able assign individual values for quantitative data to arrive at a headline score.	58
Dev-400	6.4.10.1	Treatment Actions New Field Closed Date	69
Dev-286	5.6	Updated section on Deleting Risks	84
Dev-351	5.8.1.24	Project Risk Count New dashboard	135
Dev-347	5.9.1.3.5	Bowtie – Has Happened New indicator available	171
Dev-366	5.9.1.6.2	Users and System Activity Updated to include reference to additional activity logging	175
Dev-370 Dev-362	5.10	Monte-Carlo Analysis – new section (now split from tools) plus new functionality: Cost Profile Definitions / Transfer of Adjusted Risk Values	179
Dev-322	5.14	Section has been rearranged to account for new editor layout. Searches and Filters – Removal of 'Manage Filters and Setting Sets' as this was not working as users expected. This is being re-worked for a future release.	217
N/A	8.13	New section to explain meanings behind the different 'toast' messages	228

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1. System and Application Hosting Requirements

The installation of Enterprise Risk Manager varies dependent on whether riskHive or your organisation is to host the system. If your company hosts the webserver and ERM data, then there may be additional requirements to access the system.

1.1. System Requirements

All that is required to use the application is a standard modern Internet browser. The application supports all platforms (not just Microsoft-centric systems) on multiple devices that can run a browser such as PC, Mac, Smart phone, Tablet, eBook, etc.

All browsers are supported but those we certify to work correctly are MS Edge, Firefox, Chrome, Safari, iOS Safari and Opera browsers.

1.2. Application Hosting

The application itself must be delivered to the users using a physical server. This can be an actual 'server' or a PC or even a laptop configured with some server components.

Recommended minimum system in Bold.

Operating System:

Windows Server 2016 or Windows 10 or later Microsoft .NET Framework 4.8 IIS10 or above

Database:

SQLExpress or SQLServer 2019 or later

Internet browser:

MS Edge, Chrome, Firefox, Safari, Opera

The software includes "factory set" terminology that relates to ISO 31000, it also has pre-set dropdown lists for risk reporting; however, all pre-settings can be User adjusted to meet your requirements.

You are advised to check your organisation's procedures and policies to ensure that the terminology is appropriate.

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2. Glossary of Terms

The following are common terms used when carrying out Risk Management. Not all terms are used in the riskHive ERM but all of them should help the User gain a better understanding of how to identify, collect, manage, analyse, and report risk. Terms used in riskHive ERM are in bold.

Assumption An assumption is a presumption or supposition with a degree of uncertainty. In the

system Assumptions are input items with a high degree of pre-supposed dependent

factors that have a degree of uncertainty.

Broad Brush Risk Assessment

(BBRA)

A Broad-Brush Risk Assessment (BBRA) is a facilitated risk assessment that endeavours to identify all the significant hazards that may impact upon the organisation, including Health and Safety and Environmental aspects, but not necessarily every instance of the

hazard manifesting itself as a risk.

Cause Directly precipitates an event.

Necessity. A cause must be necessary, i.e., without it, the event would not have

happened.

Sufficiency. A cause must be sufficient, i.e., sufficient to precipitate the event alone. Conditions. A cause usually has conditions, i.e., other elements which are necessary for the adverse event/change of state but not in and of themselves sufficient to cause it.

Causal Chain Often used legalistically it describes a series of events/events and conditions which are

directly linked to each other, i.e., one caused the other. Causal chains are usually

necessary to prove fault.

CCS The Corporate Cost Score shows corporate scores by cost only. Corporate scores are

global scores and are defined in the Global Heatmap.

Consequence Outcome of an event affecting objectives.

Control Measure to modify risk.

CWS The Corporate Worst Score, i.e., the worst score of each of the configured impacts (cost,

time etc.). NOTE: Corporate scores are defined in the Global Heatmap whereas Project

scores are defined by the administration of each project Heatmap.

Effect The set of direct and indirect causal implications from the realisation of the risk.

Event Occurrence or change of a set of circumstances (an event can lead to a range of

consequences).

Exposure Extent to which an organisation is subject to an event.

External Context External environment in which the organisation seeks to achieve its objectives.

Financial Impact The direct and immediate financial effect that a business will feel because of the

realisation of a risk.

Frequency Measure of the likelihood of an event expressed as several events or outcomes per

defined unit of time.

Hazard A source of potential harm to a person, or a situation that has the potential to cause

damage or loss to the business, its plant and infrastructure or its people.

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Impact The direct and immediate outcome of the risk being realised.

Indicators Used in the context of 'key risk indicator'. The state of an object or relationship which

suggest that something is at risk.

Influence The state/condition of an object or relationship which may influence another object or

relationship.

Input Items The system manages more than just Risks. For example, it can handle such items as

Trends, Assumptions, and Issues. These things can have different metadata assigned to

them and have different workflows. We refer to these inputs as Input Items.

Internal Context Internal environment in which the organisation seeks to achieve its objectives.

Mitigation A strategy or series of activities which are designed to reduce the impact felt by the

realisation of a risk.

Monitoring Continual checking, supervising, critically observing or determining the status in order

to identify change from the performance level required or expected.

Opportunity One of riskHive's' ERM Input Items. A possible action that that can be taken that could

have a positive effect on objectives.

Outcome The direct event and set of conditions which result from the realisation of a risk

event/change of state.

Parameters Defined within this document as a set of tolerable values, e.g., lowest tolerable value,

and highest tolerable value.

PCS Project Cost Score. The Project scorings for cost only.

Probability Chance of something happening (AKA: Likelihood or Frequency). Measure of the

change of occurrence expressed as a number between 0 and 1, where 0 is impossibility

and 1 is absolute certainty.

PWS Project Worst Score. The worst risk score of each of the configured impacts (cost, time

etc.).

Residual Tisk Risk remaining after risk treatments (AKA retained risk). Residual risks can contain

unidentified risk.

Resilience Capacity to resist being affected by an event.

Review Activity undertaken to determine the suitability, adequacy, and effectiveness of the

subject matter to achieve established objectives (this can be applied to the Risk

Management Framework, Risk Management Process, or a risk.

Risk There are several definitions for 'Risk'. We use the ISO3100 definition – A negative

effect on the uncertainty of objectives. (Some organisations refer to risks as 'Threats').

Risk Acceptance Informed decision to take a particular risk.

Risk Aggregation Process to combine individual risks to obtain a more complete understanding of risk.

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Risk Analysis Systematic process to understand the nature of and to determine the level of risk. Risk Appetite Amount and type of risk an organisation is prepared to pursue to take. Risk Assessment Overall process of risk identification, risk analysis and risk evaluation. Risk Attitude Organisation's approach to access and eventually pursue, take, or refuse risk. Risk Aversion Attitude to turn away from risk. Risk Avoidance Decision not to be involved in, or to withdraw from, an activity based on the level of risk. **Risk Context** The goals, objectives, strategies, scope and parameters of the activity, or part of the organisation to which the risk management process affects. Risk Criteria Criteria against which risk is evaluated in association with organisation's internal policies, goals and objectives and the interests of stakeholders. **Risk Evaluation** Process of comparing the level of risk against the criteria. Form of risk treatments involving contingent arrangements for the provision of funds to Risk Financing meet the financial consequences should they occur. Risk Process of finding and describing sources of risk. Identification Risk Coordinated activities to direct and control an organisation regarding risk. Management Risk Set of components that provide the foundations and organisational arrangements for Management designing, reviewing, and continually improving risk management processes throughout Framework the organisation. Risk Matrix Tool for ranking and displaying risks by defining ranges for consequences and likelihood. Risk Owner Position holder who is delegated the responsibility for ensuring that the mitigation treatment and associated actions to minimise the impact of the risk to the business are effectively actioned. A register of assessed business risk which is maintained and reviewed for purposes of Risk Register reference, assurance, and continual improvement. Risk Retention Acceptance of the benefit of gain, or burden of loss, from a particular risk. Risk Sharing Form of risk treatments involving the agreed distribution of risk with other parties. **Risk Tolerance** Organisation's readiness to bear the risk after risk treatments to achieve its objectives. Risk Treatment Process of selection and implementation measures (Controls) to eliminate or modify the existing risk to zero or a lower risk level. Threat Effect of uncertainty on objectives (Alternative to the use of word 'Risk' for some organisations). Treatment The application of some form of action or behaviour towards a risk or its indicators or impacts. Risks can be treated by either reducing the probability that they will occur or by reducing their impact.

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Trigger A trigger is an event or the presence of a set of pre-conditions which gives rise to the

cause of a risk.

Uncertainty State, even partial, of deficiency of information related to or understanding or

knowledge of an event, its consequence, or likelihood.

Vulnerability Intrinsic properties of something that create susceptibility to a source of risk that can

lead to a consequence.

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General Functions for Users

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3. General Functions for Users

As Enterprise Risk Manager is a web-based system the only software required to access the system is a web browser such as Microsoft Edge, Chrome, Firefox, or Safari. To access the system simply open your chosen web browser and enter the provided web address to access the system.

3.1. Logging in via ERM

When first connecting to the system, you will be presented with a login dialog box. You will need to enter the **Username** and **password** that have been assigned to you, then press **Login**. This will take you to the system main screen.



Figure 1 - ERM Login Dialogue

3.2. Logging in using SSO

If you are using Single Sign On (SSO), you will either be directed to the ERM system via your company website / intranet, in which case your log in screen may look something more like the log in screen below.



Figure 2 - Customer Specific SSO Login Dialogue

Alternatively, you may see the ERM screen, but with the option to sign in using SSO. If this is the case, just select the **Login using SSO Gateway**.



Figure 3 - ERM Login Dialogue - SSO

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3.3. General features of the main screen

Once logged into the system you will be taken directly to the main screen. The main screen is split into four key areas:

Top Navigation Bar

This is identified by a Grey Bar and holds the System Menu Option, the Help Button, the Navigator Option, (sometimes referred to as the **tree** or **node structure**) containing the list of all the project risk registers, Node Information, Edit Node Data, Alternative Navigator Views, Grid Settings,

Row Selection options and Your Messages.

Upper Grid Control Bar This section contains the menu options available for the Grid selected.

The Main Grid This part of the screen shows the main risk information related to the

selected risk register.

The Lower Grid Control Bar Provides the information regarding the number of risks visible and page navigation buttons.

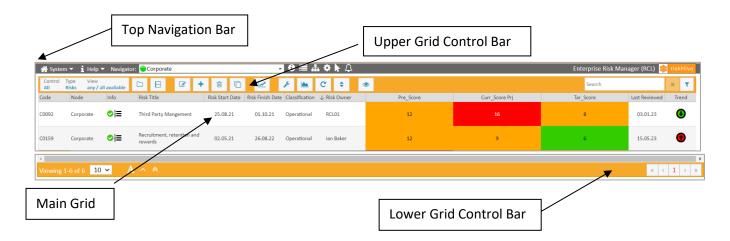


Figure 4 - The ERM User Interface

3.4. Screen Buttons

At the top left of the screen are the primary buttons which help Risk Managers manage risks, project data and reports.



Figure 5 – Key main buttons and functions

The functions bar contains most of the buttons and selections you will require to select functions or navigate around the system.

 This option helps you log out and access other areas of the system. Depending on permission this may include

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2 Help provides Information and support through access to both i Help ▼ PDF and web-based **User Guides** as well as a searchable knowledgebase of ERM and the ability to report problems and provide recommendations to improve the software to the Support Team. 3 Enterprise Project Structure (EPS) or Nodes list enables users to Navigator: RCL find where risks are stored. View Node Overview provides a summary of the key features of 4 the project. 5 **Edit Node Data** button. View and edit the project information. Includes project rating, budget, state, and ownership. This is taken from the project node and its subsidiary nodes. Change Navigator View. The EPS is the normal Master view. The 6 user can see the project through alternate views/structures which can be set up. This will usually include Levels of Escalation and might also include the alternate structures of Cost Breakdown Structure (CBS) and/or Work Breakdown Structure (WBS). 7 The Change Grid Settings button enables you to filter the risks on screen. This option is also included within the **Grid Controls** panel (see below). The **Row Selection Mode** button allows for selection rows or 8 pages of risks. 9 The User Messages button opens the local message inbox for the logged-on user. Messages within the inbox are those created by the Monitoring and/or Validation system. 10 The **Control Type View** button enables the options to select Control Туре View any / all available controlled/uncontrolled risks, the Scenario, Display Type (e.g., Risk, Issue, Action etc) and a specific User View. Depending on your configuration not all these options will be displayed. 11 The **Node Only** button displays only the risks in the selected EPS the structure. Select to see subsidiary nodes. 12 The **Show Split Panel** button switches the application into risk line items and edit panels. 13 Once a risk(s) is selected, users can use the **Edit** feature to make B. changes to the risk's details. 14 The **New** button helps create risks.

page.

administrative aspects, but generally it includes the Dashboards

15

Delete a risk. A deleted risk will be removed from the screen and placed in the archive. A Retired risk has been through the risk management cycle but could still be impacting the live system (such as the aggregate probabilistic means for its assigned node). A Retired risk will remain on screen.

16

The **Duplicate** button enables the user to copy risks to other levels within the EPS.

17

Reporting Parent button provides access to the main reporting systems. These are presented as foldouts (sub-menus) to the parent. There are 5 sub-menus. These are: Dashboards, Excel Reports, Excel Registers, Report Scheduler, My risks, and My Actions.



Offers several dashboard style reports.

Configurable Excel Reports.

Configurable Excel Export and Import Registers

Project Reports are only available to System Administrators, provides node data information as an Excel Report.

Schedule an Excel Report or Excel Output register to occur on a regular basis.

My Risks enables you to see the risks which you have been identified as the risk owner or managing the risk.

My Actions shows the status of all the actions allocated to you.

The Tools button provides the options to run a statistical risk analysis (Monte Carlo simulation), create Bowties and Groups.

When drop down menus, users or information has been changed by the Administrator, the **Refresh Grid** will help show the changes on screen.

The **Reverse Sort** button reverts the main grid sorting to the initial configuration.

The **Risk Summary/Review** displays the details of a risk so that the risk can be reviewed, edited, and printed.

17.1



17.2



17.3



17.4



17.5



17.6



17.7



18



19



20



21



4. Top Navigation Bar

4.1. System

The System feature provides access other areas of the system, such as access to Administration or Datasets. However, this will depend on the user permissions setting.



Figure 6 - The System menu

Select "Dashboards" to give you instant access to the Project Summary Dashboard. Select "Logout" to log yourself out of the system.

4.2. User Settings

Within your User Settings you can change your Password, Email Address(es) and Phone Number(s).

Go into the **Systems** option, click on your **User name** and the following panel will appear:

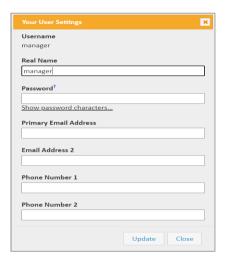


Figure 7 - The **Change Password** button and panel

Type in your new password and click on the **Update** button.

By clicking on the '?', guidance notes for password creation will appear.

Passwords must obey the following rules:

At least 8 characters long and no longer than 128 characters.

No more than 2 consecutive characters the same.

Meet at least 3 complexity criteria (at least 1 uppercase, 1 lowercase, 1 digit, or 1 special character.

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4.3. Help

This feature provides several help options.

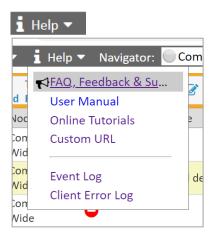


Figure 8 – The Help button

4.3.1. FAQ, Feedback & Support button.

This can be used to contact riskHive support, give feedback on the system and browse the knowledge base of frequently asked questions.

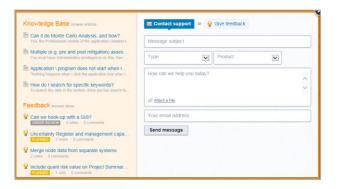


Figure 9 – The FAQ, Feedback & Support panel

To begin searching the current knowledge based, type your search word(s) in the **Message subject**. The search is intuitive and will direct Users to existing online material (orange lightbulb) or documents (piece of paper). The results will be displayed on the left-hand side of the panel.

Feedback ideas are captured in the bottom Left-Hand Side of the panel. All users can vote and/or add comments on these ideas. This information is captured and reviewed by riskHive to help determine future delivery possibilities.

By selecting **Contact Support** users can ask for direct help to a problem. By selecting **Give feedback**, users can offer advice on how to improve the system.

NOTE: If you wish to find out more about the riskHive company, our consultancy and tools please select the riskHive symbol at the top right of the main screen.

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4.3.2. Online Tutorials

This provides you with templated riskHive videos on functionality such as creating risks, copying risks etc.

4.3.3. Custom URL

Where a customer has developed their own training videos or reference material, this can be linked to that customers URL. This link will only appear if this functionality has been used by that customer.

4.3.4. Event Log

The Error log is log of what happens on the server where ERM is running. It will report such things as database errors hidden from the outside world. You should run the event log after any error and include this within any communications to support@riskhive.com.

4.3.5. Client Error Log

The Client event log reports problems on the "Client" (the Browser, edge, chrome) and might report problems with the User interface (input, display problems.). You may be asked to run one of these if you are experiencing error regarding the 'client'.

4.4. Enterprise Project Structure (EPS) / Node Structure

The **EPS** (sometimes referred to as the **tree** or **node structure**) is a list of all the risk registers. When you select a risk register, the risks within this register will appear.

The path of the node is displayed. When the path is too long, rest the mouse cursor over the node to view the full path details.



Figure 10 - The EPS or Node Structure menu

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4.5. View Node Overview

This button will provide you with a summary of the main project features.

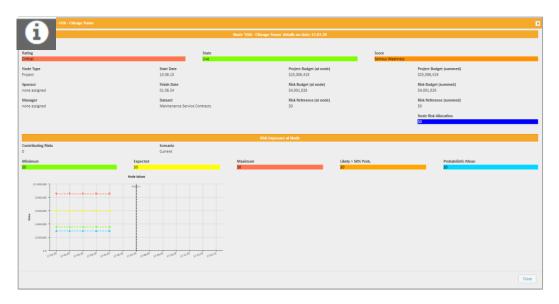


Figure 11 – The View Node Overview button and panel

4.6. Edit Node Data

The Edit Node Data is permissions based, therefore you may or may not have this option.

It is vitally important to understand the journey the project will face and the projects general health, which in turn will help readers understand the risks better. The **Edit Node Data** panel helps us define the projects context.



Figure 12 - The Edit Node Data button and panel

Node
Information

Description

Provides the basic description of the project with start and finish dates.

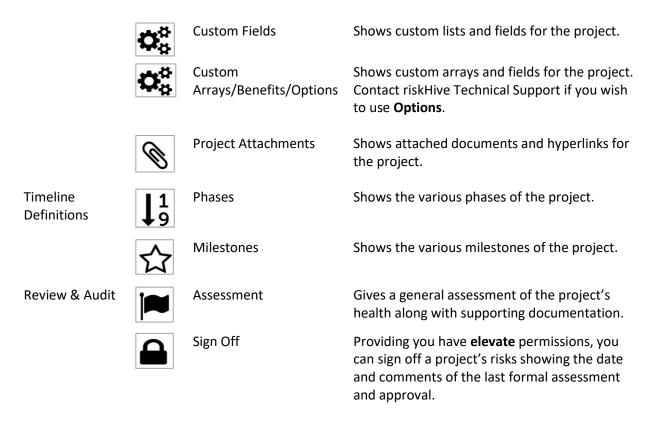
Objectives

Lists the objectives for individual projects.

People

Shows those responsible and stakeholders for the project.

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4.6.1. Description

General information on the project is captured such as the start and finish date of the project, the budget and risk contingency, the phase and geographical region of the project.

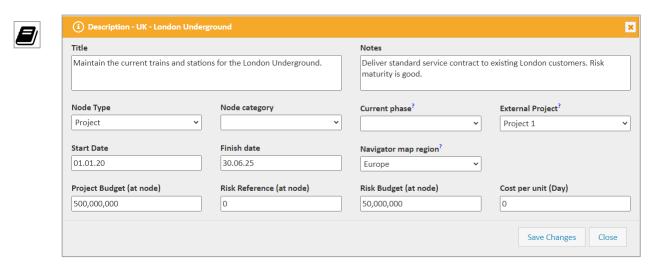


Figure 13 - The **Description** button and panel

The **Title** is the full title of the project.

The **Notes** section enables you to describe the project and its context.

Node Type enables you to indicate if it is a programme or a project.

The **Node Category** indicates they type of project.

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The **Current Phase** indicates which phase the project is currently in i.e., manufacturing phase.

The **External Project** indicates which project is assigned to the node. This is relevant if you are using the Linked Task functionality.

The project formal start and end dates are indicated in the **Start Date** and **Finish Date**.

The main residency or headquarters of the project can be identified in the Navigator map region list.

The **Project Budget* (at node)** is the Project Budget for the node level.

The **Risk Reference*** (at node) is where there is a need to have a different value against your project, that is different to the Project Budget.

The **Risk Budget*** (at node) is the budget allocated to risks.

The Cost per unit (Day) is the pre-determined value you wish to allocate to time. (This is important if you are using the **Schedule Analysis** functionality).

*Refer to additional notes in section 5.12.6 in the How do !? Section

4.6.2. Objectives

It is vital that the objectives of the project are fully documented so that further analysis can identify if the risks impact the objectives and therefore the potential success of the project.

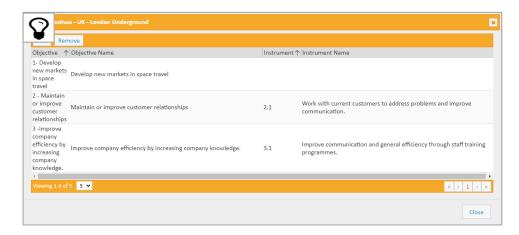


Figure 14 - The **Objectives** button and panel

Each objective is numbered and subsidiary objectives (i.e., Instrument Name) is also numbered.

To add an objective to the project select Add:



Figure 15 - Selecting Objectives

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Select an objective number and an instrument (sub-objective) number. The objectives text will appear on the right, then select **Add**.

4.6.3. People

The major influential people related to the project are identified in the people section. These people contribute to the general health and progress of the project and therefore are stakeholders in the risk's progression as well. Keeping stakeholders informed of major and sudden risks is important as they will provide support and additional contextual awareness when required. These fields are configurable; therefore, your screen may look different to the one below.



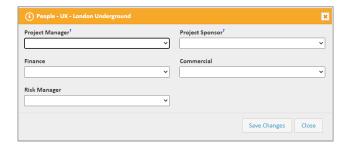


Figure 16 - The **People** button and panel

The most common types of people are:

The **Project Manager** is the person with ultimate responsibility for the project delivery.

The **Project Sponsor** identified the need of the project and the projects definition. Usually someone in senior management who resolves issues that are beyond the control of the project manager.

The **Finance** representative of the project reports on the projects budget, spending and financial forecasts.

The person responsible for sales, marketing, contracting, negotiations, finance, and contract law is the projects **Commercial** contact.

The **Risk Manager** ensures the risk management process is appropriate and followed.

Please enter as many stakeholders as possible and select **Save Changes**.

4.6.4. Custom Fields

If you are required to complete additional information regarding the project, then you will have a **Custom Fields** option in the Node Information panel. The drop downs will have been configured by your system administrator in line with your risk management policy requirements.

An example is shown below:





Figure 17 - The Custom Fields button and panel

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4.6.5. Project Attachments

Important documents and hyperlinks relating to the project can be attached i.e., Project Overview, Risk Management Strategy, Project Schedule.



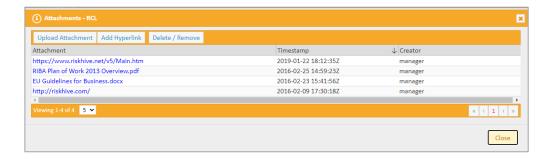


Figure 18 - The Attachments button and panel

To attach a document (Microsoft Word, Excel, PowerPoint, Project as well as pdf and notepad text files) select **Upload Attachment**. To include a hyperlink select **Add Hyperlink**.

4.6.6. Phases

By listing the many phases of a project, the Risk Manager can identify which risks could impact particular phases of a project.



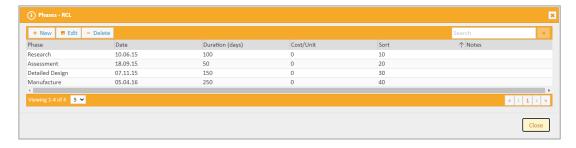


Figure 19 - The **Phases** button and panel

To add a **Phase**, select **New** and the following panel will appear:

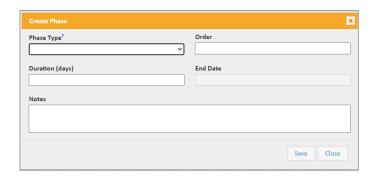


Figure 20 – Adding a **Phases** to the project

The **Phase Types** has already been created and is listed.

In the **Duration** section, identify how many days has been allocated for this phase.

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The **Order** section relates to the sort column. The first phase will be 10, the second phase will be 20 and so on. This is to ensure the list of phases are in the correct order.

The **End Date** identifies the ending of the phase.

The **Notes** section can be useful to add a fuller description or context.

4.6.7. Milestones

It is very important to identify the major events in the lifespan of a project. A list of milestones not only gives the reader a greater context of the project but also allows users to identify which risks may impact which milestones.



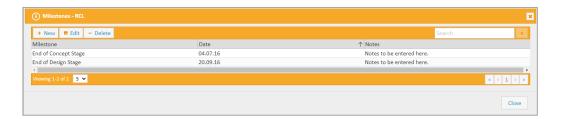


Figure 21 - The Milestones button and panel

Select the **New** button and the following panel will appear:

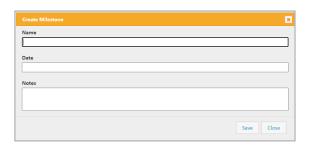


Figure 22 - The Create Milestones button and panel

Type the name of the milestone into the **Name** section, select the date when the milestone will take place in the **Date** section and select **Save**.

4.6.8. Assessment

It is always useful to understand the general health of the project which may give greater understanding of the project risks.



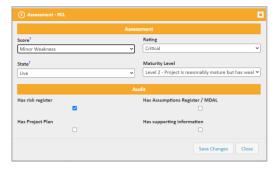


Figure 23 - The **Assessment** button and panel

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The **Score** describes the general health of the project and options include **On Target**, **Minor Weakness**, **Serious Weakness** or **Critical Weakness**.

The Rating section identifies if the project is considered critical to the business path or not.

The **State** identifies if the project is Live or Not Live (archived). If you select Not live, the circle next to the node will turn red once you log out and then log back into the system:



The overall **Maturity Level** of the project will help readers understand why a project may have a high level of risks.

Underneath is an **Audit** section which enables you to identify which core documentation the project has.

Once your changes have been made, select **Save Changes**.

4.6.9. Sign Off

This tab is provided to only those users who have rights to assess and approve the overall risks of the project (i.e., CEO, Director). The administrator will ensure this person is given the appropriate access (i.e., elevated).

When the **Sign Off** button is selected, the following panel appears:



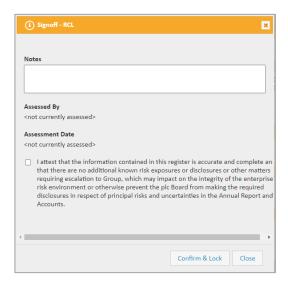


Figure 24 - The Sign off panel

The **Notes** section gives the person signing off the risks the opportunity to explain some of the context or why they believe the risks are appropriate to the project.

Select the tick box relating to the attestation statement.

Select **Confirm & Lock**. A confirmation panel will appear:

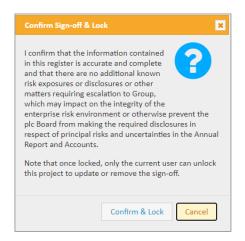


Figure 25 - A Confirmation panel

Select Confirm & Lock.

When you or others view this panel, they will see your name and the date when it was assessed.

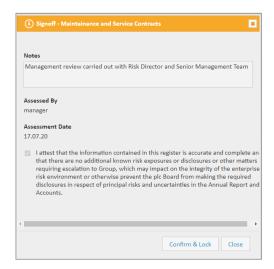


Figure 26 - A completed Sign-Off panel

This will now be a historical statement of the date when the projects risks were assessed and confirmed. Only the person who originally locked the risks can unlock them. Equally, only an Administrator can reset all signoffs (through the **Sign-Off Reset (All)** option).

4.6.10. Rates/Exchanges

Depending on your access, you may have access to Rates/Exchanges.

The Rates/Exchanges indicates how the various impact assessments will be measured. For example, Cost is measured through a country's currency, Time is measured through a variety of time durations. Cost and Time are the key measurements for each project.

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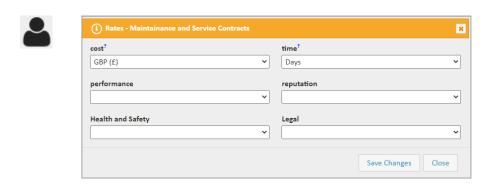


Figure 27 – The Rates/Exchanges button and panel

4.7. Change Navigator View

The Navigator View is permissions based, therefore you may or may not have this option.

Select the Change Navigator View button:



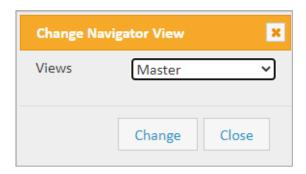


Figure 28 - The **Change Navigator View** button and panel

Select the node structure you wish to see and then select **Change**.

The Node structure has changed to the different levels of hierarchy and depending on the node you select.

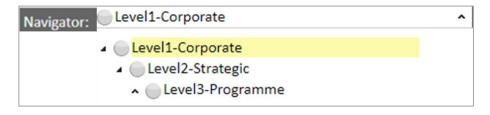


Figure 29 – The **Escalation Levels** within the node structure

If you select the Escalation option, risks could have been automatically escalated through their Heatmap score or a user could have selected a particular escalation level for a risk. If you select the 2 other view options, the user would have needed to select these views for each risk. To return to the normal node, select **Master**.

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4.8. Grid Controls

This panel enables the user to organise the way they view and select risks on screen.



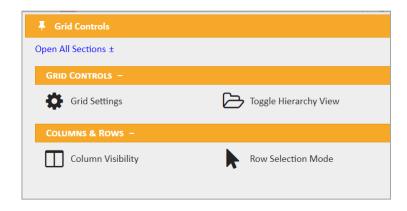
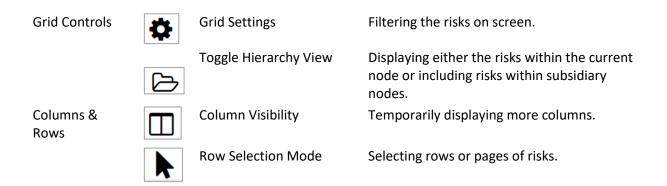


Figure 30 – The Grid Controls button and panel



4.8.1. Change Grid Settings

The **Grid Settings** are another way for users to view risks through creating their own filters.



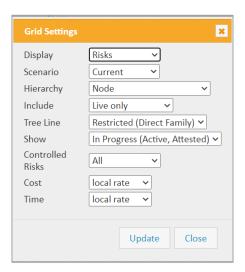


Figure 31 – Grid Settings button and panel

Grid Settings allow users to view input items by type. The options available will be dependent on the options selected by your administrator.

Display

Risks The default view displaying only risks.

Opportunities Displays only Opportunities.

Issues Displays only Issues.

Notifications An additional grid to display 'additional' record types if required. (E.g.

records where a user is unsure of the actual record type).

Audits This is a new grid type and is currently under further development.

Trends Trends could indicate emerging risks which are not formally listed as risks

but are showing signs of developing into risks. Equally trends can indicate something which could positively impact risks and their mitigation. This displays emerging trends so that very early risk/opportunity information

can be monitored as soon as it begins to develop.

Assumptions Displays only Assumptions.

Mobile Gives you a cut-down view optimised for smaller screens such as tablets

and smartphones.

Actions Display all the actions within the current node. You can also view the risks

they relate to.

Benefits Displays the benefits within the current node.

Scenario Scenarios represent **pre-mitigated**, **current** and **target** risk assessments.

Hierarchy View risks allocated to the selected project node or the project node and

the nodes descendants.

Include View risks from projects which are either live or not.

Tree Line The **Tree Line** relates to the node structure.

Restricted (Direct Family) – Displays risks whose owners are allocated to

the selected node and nodes above. **All Users** – Shows risks owned by all users.

Node and Children – Shows the risks of users who have access to the

node and subsidiary nodes.

Show Views risks in a variety of states.

Controlled Risks Displays risks that are controlled or not by their Actions. There are 3 filter

types:

All – Display all risks irrespective of their control state.

Un-controlled – Displays only those risks that are not controlled by their

actions.

Controlled – Display risk that are controlled.

Restricted Risks This option is only available to users that have "**Restricted**" permission.

"Restricted" implies a user may view and edit risks marked as restricted.

There are 3 filter types:

Standard - Displays standard (not restricted) risks.

Restricted – Display risks that have been tagged "Restricted" **All** – Display all risks irrespective of their restriction level.

Cost Enables you to set the cost view to a specific currency which is essential

for geographically dispersed organisations.

Time Enables you to set the view by time. For instance, certain projects may

view time by days and others by weeks or another unit of measure.

4.8.2.

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4.8.3. Toggle Hierarchy View

Toggle between viewing risks within the selected project node or descendant nodes.



Figure 32 – The Toggle Hierarchy View button

If you select a node, the risks within just that node will appear on screen. If you select **Toggle Hierarchy View**, the risks within any subsidiary nodes will also appear on screen.

4.8.4. Column Visibility

The **Column Visibility** panel allows you to select additional temporary columns which will be added to the main screen but will disappear when you log out of the system.

The options available will be dependent on the options selected by your administrator.



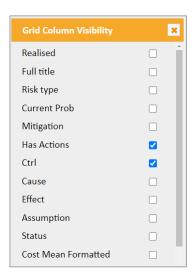


Figure 33 – The Column Visibility button and panel

Select the columns you wish to see, select **Update**. The columns will appear on the main screen.

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4.8.5. Row Selection Mode

To select an individual row, click with the left mouse button on a row. However, you can use the **Row Selection** option to select a variety of rows and pages.



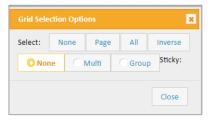


Figure 34 – The **Row Selection Mode** button and options

Select		
	None	No rows are selected.
	Page	Only the rows on the current page are selected.
	All	All rows on subsequent pages are selected.
	Inverse	If you have already selected rows, you can use inverse to select all other rows e.g., if you want to select all rows on the main screen except 2 rows, select the 2 rows you do not want and then inverse, and all other rows will be selected.
Sticky		
	None	No rows are selected.
	Multi	Randomly select rows.
	Group	Select consecutive rows. Select the first row and the last row and all rows in between will become selected as well.

Remember to turn this feature off when you no longer need it.

4.9. Row Selection Mode



Refer to 5.8.4.

4.10. Your Messages

To complement Monitors and Validators (see Administration: Manage Tasks), when a Monitor or Validator generates an email, the application also stores the email directed at ERM users as local messages. This provides a basic inbox that alerts users to system messages. When a user logs in and they have un-read messages, they will see an alert (bottom right). Clicking the alert (you have N new messages) or selecting this ("Your Messages") icon invokes the local inbox.

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Figure 35 – The Your Messages local inbox

Within the local inbox, a use may "read" the full message (which marks the message as read), permanently "delete" messages or "show all" previously read messages.

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5. Upper Grid Control Bar

5.1. The Control/Type/View Button

The Control / Type button opens a pop-up (below) for the type where you can select the following options:

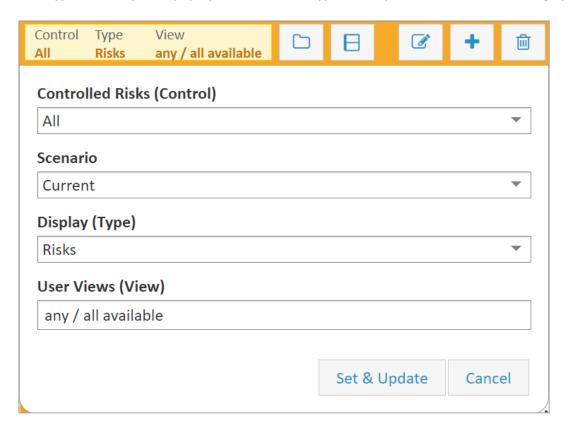


Figure 36 – The **Control / Type / View** button

Control: This gives you the ability to view risk where they are controlled by its actions. There are 3 states of action control. Controlled, Un-Controlled and All. The selection determines which of the risks are shown in the grid. The default is **ALL**, but this can be configured across the application.



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Scenario: This shows and switches the selected or default scenario in which the risks are displayed. Using the Scenario selection, risks may switch between the configured scenarios, for example, pre-mitigated, current and target.



Display (Type): This shows and switches the current main grid view. Using the View/Display selection popup (below), risks may switch between the configured views. Depending on configuration, these are generally Risks, Opportunities, Trends, Assumptions and Actions but can include Notifications, Issues, Benefits and Audit.



View: Should a user have multiple permissions (for example both Standard and Basic) the user may choose to work in either configuration. This option will not show if you only have been allocated a single View Interface.



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5.2. Node & Desc

ERM will display the risks relating to the node you have selected within the EPS (node structure). If you wish to see risks within child nodes, select the Node & Desc button.



Figure 37 – The Node & Desc button

5.3. Split Panel Mode

For Risk/Opportunity editing, the application can now split into a line items and editor. This allows for simpler reviewing and editing of risk information. Based on the standard Panel editors, split screen also allows risk merge and side by side editing.



Figure 38 – The **Split Panel** button

Toggling the "Split Panel" button creates the following layout. Selecting a risk or risks populates the bottom right editor. The standard set of risk editors are selectable from the bottom left.

To change the side of the Grid Editor Split, use the "Up/Down" arrows next to "Save Changes".

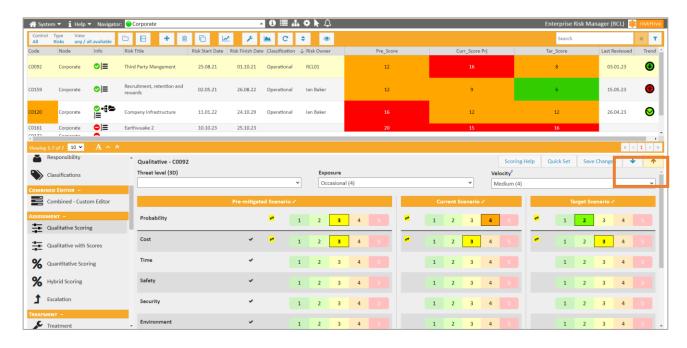


Figure 39 - The Split Panel User Interface

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5.4. The Edit Panel

The **Edit** button opens a variety of panels which help you manage the risks and actions. The options available will be dependent on the options selected by your administrator. A record must be selected before using this button.



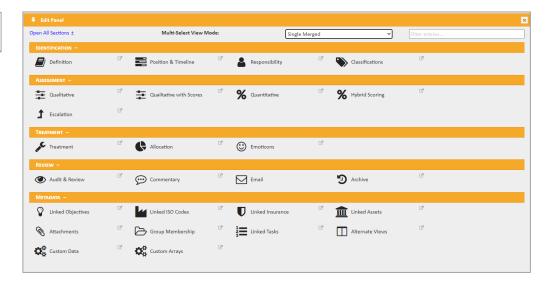


Figure 40 – The **Edit** button and panel

Identification		Definition	Initial description of risk.
		Position & Timeline	Relating the risk to the project's node, phase, and scope as well as timelines.
	2	Responsibility	Identifying who will take varying responsibility for the risk.
		Classifications	A mix of tags to describe the risk within the context of the project or organisation.
Assessment	-B- -B-	Qualitative	Shows the basic qualitative assessment of a risk.
	-B -B-	Qualitative with Scores	Shows the qualitative assessment of a risk alongside other assessment impacts (i.e., Probability x Impact (2D), Threat, Exposure and Velocity (3D) and Project Rating (4D)).
	%	Quantitative	Shows the quantitative assessment.
	%	Hybrid Scoring	Allows a mixture of qualitative and quantitative scoring for different impact types.
	1	Escalation	A way of raising awareness of a risk to the risk hierarchy.

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Treatment	ac.	Treatment	Providing an overview of the mitigation plan and the detailed actions.
	4	Allocation	Shows how much money needs to be allocated to this risk and the cost of the actions.
	\odot	Emoticons	Shows a subjective feeling towards the risk.
Review		Audit & review	Review details.
	\bigcirc	Commentary	Adding additional comments.
		Email	Providing the system has the correct email address, you can send a message regarding a risk to a colleague(s).
	3	Archive	Shows previous versions of the risk. Previous versions can be reinstated.
Metadata	$\mathbf{\Omega}$	Linked Objectives	Identifying which objectives could be impacted by the risk.
	4	Linked ISO Standard Codes	Identifying which ISO Codes may be impacted if the risk occurs.
		Linked Insurance	Reviewing if insurance can cover part or all of the risk impacts.
	<u></u>	Linked Assets	Identifying the physical or intellectual assets that could be impacted by the risk.
	1	Attachments	Attaching documents or hyperlinks for contextual or additional information.
		Group Membership	Creating a Group to identify links or relationships between risks.
	1 2 3	Linked Tasks	Shows which scheduled project tasks could be impacted by the risk.
		Alternate Views	Viewing risks in alternate ways.

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recorded.

Pricing Regulations.

These are custom fields which are used when

additional information is required to be

To enable compliance to the Single Source

Custom Data / Custom

Arrays

AAR Panel

Issues Panel

By selecting the Issues icon, this will allow you to capture specific information regarding Issues.

Trends

Trends Panel

Selecting the Trends Icon, this will allow you to capture specific information regarding Trends.

AAR Panel

To enable compliance to the Single Source

AAR Panel To enable compliance to the Single Source Pricing Regulations.

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5.4.1. Definition

The **Definition** panel enables a risk to be fully described, not only through a standard statement e.g., 'Due to ... there is a risk (or opportunity) ... which will impact ...' but also its background.



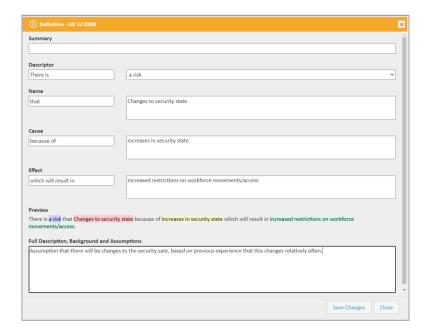


Figure 41 – The **Definition** button and panel

As you fill in the Name, Cause and Effect sections, the Preview section will begin building a risk statement.

You can view the risk using a **Bowtie** and make further changes.

Note: The order of the fields is configurable, and so may be different per customer deployment.

5.4.2. The Position & Timeline panel

The **Project Node** section enables you to check if the risk will be stored in the correct place. The **Proximity**, **Start Date** and **End Date** information is very useful for analysis and used in reports.



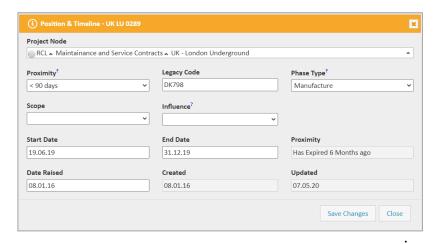


Figure 42 – The Position & Timeline button and panel

If existing risks from a previous risk register have been migrated into the ERM system, their original risk id will be stored in the **Legacy Code** and ERM will generate a new risk id. This enables easier searching if the user can remember the old risk id.

Identify which parts of the project **Phase** or **Scope** may be impacted and the level of **Influence** you have over the impacting risk.

Proximity is an approximate estimate to when the risk could occur.

The **Start Date** is a more precise measure of when the risk could occur.

The **End Date** identifies when the threat of the risk is over.

Where possible, fill in both the **Proximity** and the **Start** and **End Dates**.

Complete the necessary information and select **Save Changes**.

5.4.3. Responsibility

The Responsibility panel helps identify who was augmented in the initial creation and mitigation of the risk.



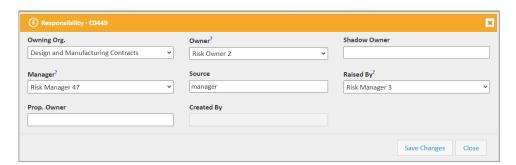


Figure 43 – The **Responsibility** button and panel

The **Owning Org** identifies if another organisation should own this risk, but an arrangement has been agreed whereby your organisation will mitigate the risk.

The **Owner** is the person responsible for the mitigation and reporting of the risk. Where owners may not be permanently present, a **Shadow Owner** can be appointed, and they have the same responsibilities as the **Owner**.

The **Manager** is the person who will regularly review if the risk management process is understood and implemented and support the **Owner** and **Shadow Owner** where possible.

The **Source** is the person who first identified the potential risk. This person can often provide contextual information and trigger points causing the risk.

The **Raised By** is the person who is raising the risk at the meeting or within the ERM system.

The **Prop Owner** is the **Proposed Owner**. When a risk is first created, it has a proposed owner. A process of reviewing and approving the risk should take place, after which the official **Owner** is identified as well as a mitigation plan and budget allowance.

The shaded grey field **Created by** automatically captures who created the risk in the system (I.e., the person logged on inserting the risk). This may be different to the tag "Raised by" as that is a manual selection. The "created by" field may be reported on or added to the grid view as any other standard risk field.

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Complete as much as possible and select **Save Changes**.

5.4.3.1. Nuances for users display when not enabled with tree view permissions

If a user (User A) has been assigned to a specific parent node and has not been given Treeview permissions when working within a child node then their name cannot be allocated against a record for any of the child nodes, except in the following instance:

If another user (User B) has Treeview permissions and aggregates all the risks from the parent node level to which User A has been assigned, then that user B can assign user A to any risk within that project tree. This is because the system will show all possible users assignable throughout the project tree.

It is advisable therefore, that if ownership of risks etc need to be changed, this should be done at the individual node level.

The system logic for permissions is built on the assumption that if a user has permissions for a parent node, then they should have access to all child nodes.

5.4.4. Classifications

This panel indicates which parts of the organisation the risk could impact. The fields you will see will depend on the set up of your system, and what segmentation requirements your organisation has determined.



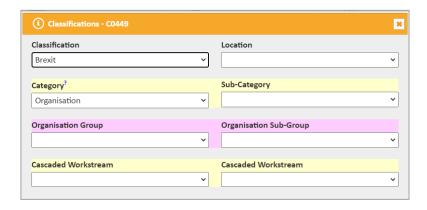


Figure 44 – The Classifications button and panel

A risk can be identified by which **Classification** (Strategic, Operational, Financial or Compliance), **Location** (especially useful when a project may expand beyond several countries), **Category** (Key logistics of running the business i.e., commercial, governance, environmental or safety), **Organisational Group** (Divisions within the business) or **Workstream** it may impact.

If you see additional fields, these will have been created by your administrator and will be unique to your configuration.

5.4.5. Qualitative

Usually, these scoring ranks align to an objective scoring system laid out in corporate governance or a centralised risk management plan. There is, however, nothing wrong with scoring projects subjectively. Subjective scoring by domain specialists allows for the application of expert knowledge.

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The **Qualitative** field provides all qualitative scoring against **Probability**, **Cost**, **Time**, **Performance**, **Reputation**, **Health and Safety** and **Legal**. These are default impacts and can be changed by the Administrator who can remove as many of these fields as they wish to reduce the burden of data entry in smaller projects, however this could reduce the richness of reporting. Administrators are advised to keep as a minimum Probability, Cost, Time, and Performance, although Probability and Cost are the most important.

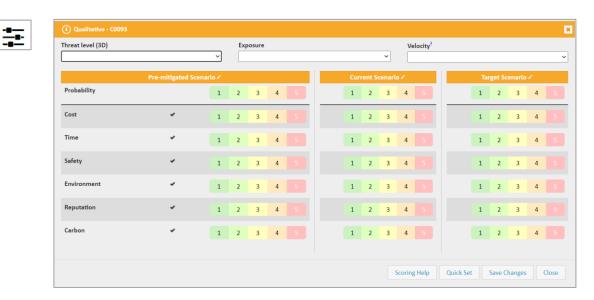


Figure 45 – The **Qualitative** button and panel

Normally, a risks impact is calculated by multiplying Probability x Impact (2D). This creates a 2-dimensional view of the risk assessment. Other aspects that could impact a risks assessment is the impact the threat could have on the project and the project status (if a project is critical or not).

At the top left of the panel, you will see a drop-down list of Threat Levels: **Noticeable, Significant** and **Catastrophic**. The **Threat Level** represents the risks level of impact on the project. The **Threat Level** adds another multiplication i.e., Probability x Impact x Threat Level, this is known as 3D.

The project status also impacts the risk status by multiplying Probability x Impact (2D) x Threat (3D) x Project Rating (4D). These impacts are shown on another option called **Qualitative with Scores**.

The level of **Exposure** means how frequently the risk could occur and the user can choose from **Very Rare** to **Continuous**. This enables us to understand how often this risk could occur and decisions may be different in mitigating a risk which happens very infrequently to a risk that occurs continuously. This field may also be included within the 3D calculation.

The **Velocity** field is an additional parameter which conveys the rate at which a risk can impact an organisation. This field may also be included within the 3D calculation.

As the risk may have many impacts, all at various levels, there may be an occasion where the impact you are most concerned about but not the highest value needs to be identified. To identify the **Lead Driver**, select the tick next to the impact (in the example above there is a green tick next to Reputation, this means **Reputation** is the **Lead Driver**).

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5.4.5.1. Scoring Help

The **Scoring Help** option allows users to see the description of all the impact values.

If Scoring Help is selected, the following screen will appear:

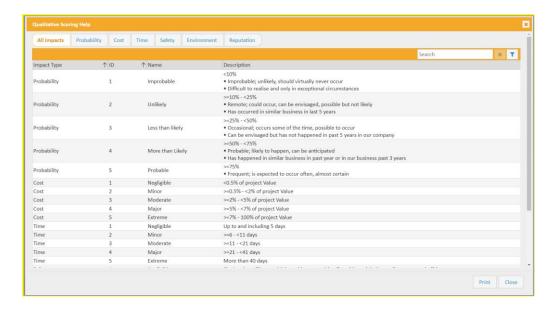


Figure 46 – The Scoring Help panel

To reduce the display to only see the Probability or other Impact types, users can click on any of the tabs at the top of the panel.



Figure 47 – The **Scoring Help panel** – tab visibility options

The Assessment levels can be printed. For all impacts to be printed, the All Impacts tab must be selected.

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5.4.5.2. Quick Set

The **Quick Set** option is configurable and may be switched off in your system. (For example, if you are using the Hybrid assessment option).

The **Quick Set** option enables you to copy your assessment scores to either other impacts or scenarios in that risk.

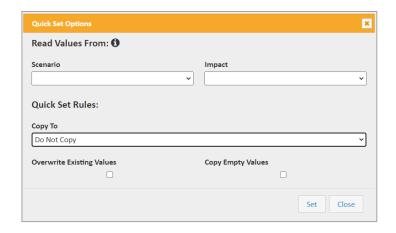


Figure 48 – The **Quick Set** panel

Scenario Select the scenario you wish to copy to other places. Select the impact you wish to copy to other places. **Impact** Copy To Dependent upon your selection in Scenario and Impact will depend on what options you can choose. Specified Impact in other Scenarios will copy the impact you have chosen in the Impact section to the same impacts in the other scenarios. Other Impacts in Specified Scenario copies the impact to all Impacts within the same scenario. All Impacts in All Scenarios copies the impact to all impacts within the Premitigated, Current and Target scenarios. **Overwrite Existing** Select this option if you wish to overwrite any values in the destination fields. Values **Copy Empty Values** Select this option if you wish to copy empty values into the destination fields, so empty values will overwrite current values in the destination scenarios and impacts.

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5.4.5.3. Rating Rationale

To the right of each scenario heading is a pen symbol:



Figure 49 – The **Pen symbol** next to the scenario headings

Select the pen symbol to open a free text box:



Figure 50 – The Rating Rationale box

As the feint text implies, a rationale or justification of the assessment needs to be captured to explain the thinking and assumptions of the person conducting the assessment.

You can resize the rationale box by selecting the three lines on the bottom RH side of the panel to read any additional text entered.

You may have the system configured to have individual rationale boxes for specific Impact types. If this is the case when you click on the pen icon the specific rationale boxes will appear.

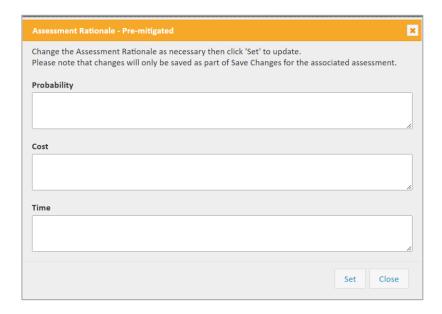


Figure 51 – Individual impact Rating Rationale box

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5.4.5.4. Quantitative Conversion

You can convert a **Qualitative** assessment to a **Quantitative** assessment. If you have qualitative **Cost** data but wish to generate an actual quantitative **Cost** figure, you can run a **Quantitative Conversion**.

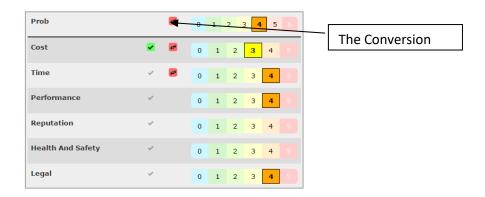


Figure 52 – The Quantitative Conversion option

Select the **Conversion** button and the following panel will appear:

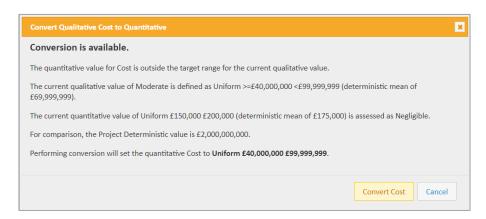


Figure 53 – The Quantitative Conversion panel

The **Qualitative Level** is the current Cost assessment.

The administrator will have set up a figure(s) representing each assessment level. If you select **Cost** as **Very High**, in the system background will be identified a number to represent **Very High** which is used to calculate a suggested quantitative figure.

The **Current Quantitative Mean** is the mean of any figures entered into the quantitative assessment panel. If there are no current figures in the **Quantitative** assessment, this will be blank.

The **Project Deterministic** figure represents the projects budget.

Select the **Convert** option. The new figures are entered into the **Costs Quantitative** assessment:

Note: Whist all users will be able to click on the 'convert' option and see what the conversion results would be, the ability to carry out the conversion is only possible if you have the '**Convert Scores**' permission.

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Figure 54 – A successful **Quantitative Conversion**

5.4.6. Qualitative with Scores

By selecting **Qualitative with Scores**, you will see not only the normal Qualitative panel but also the impact of selecting a Threat Level, Exposure and Velocity and Exposure (3D) on the risks scores. The basic score (i.e., 2D) is a multiplication of the Probability x Cost assessment. As you select the different levels, the 2D score is multiplied by the value indicated in brackets.

The default setting only calculates the 3D score based on the Threat level selected. However, the system can be configured to include all or any of the options for the 3D scoring.

In the scenario below, the threat level Exposure nor Velocity have been selected and as such the 2D, 3D and 4D scores are all the same (1.e 2).



Figure 55 – The Qualitative with Scores panel – No options selected

In the next scenario below, the threat level Exposure have been selected (Significant (2)) and therefore the 3D and 4D scores have now increased to 4.



Figure 56 – The Qualitative with Scores panel – Threat level selected

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In the next scenario below, the Threat Level AND the Exposure have been selected (Significant (2) and Rare (2)) and therefore the 3D and 4D scores have now increased even further - to 8.



Figure 57 – The Qualitative with Scores panel – Threat & Exposure levels selected

In the next scenario below, the Threat Level Exposure AND the Exposure AND Velocity have been selected (Significant (2) / Rare (2)/ Very Low (2)) and therefore the 3D and 4D scores have now increased again - to 16.

Finally, if we assign the node as Critical (within the Edit Node / Assessment Panel) we can see the 4D score changing to 32 as the 4D score is triggered by the Node and multiples the 3D by 2.



Figure 58 – The Qualitative with Scores panel – Threat, Exposure & Velocity levels selected

Note: If you require your system to be configured to calculate the exposure and or velocity, please contact riskHive Technical Support.

5.4.7. Quantitative

Where possible try to include actual figures especially for later analysis and reports. The **Quantitative** panel includes the same assessment impacts as the **Qualitative** panel: **Probability**, **Cost**, **Time**. As this is configurable, other impact types may be shown.

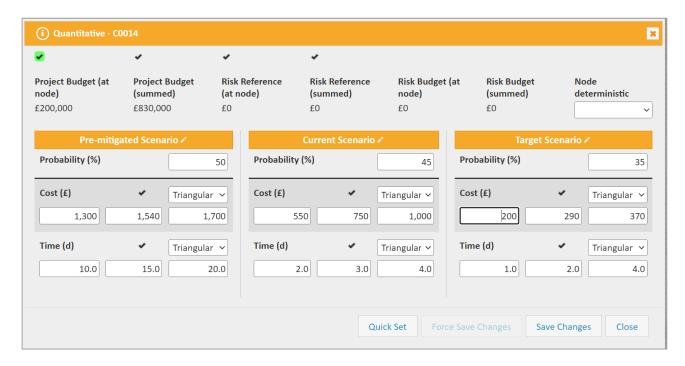


Figure 59 – The **Quantitative** Panel

In the third column of each scenario is a drop-down list. This list identifies what type of estimate you are entering.



Figure 60 – The **Distribution type**

Constant means you are entering a single figure. Beta measures the risk against the index/market. Uniform means you are providing a minimum and maximum figure to show a range. Triangular is the most common and enables a 3-point estimate i.e., Worse, Most Likely and Best estimates.

When a word ends with 'whole', you must enter whole numbers 1, 2 and 3 and not 1.4, 2.3, 3.9.

Select the type first, then add figures directly into the various sections and select **Save Changes**.

<u>Note</u>: If there is an absence of any numeric values for fields other than **Cost**, this is because for this portfolio the business has not agreed on the rates and units of measure for areas other than cost and time. However, quantitative assessments provide the fundamental underpinning for Monte Carlo simulations.

The **Project Budget** and **Risk Budget** show the summed budgets from the current and subsequent nodes.

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Value at Node displays the Project Budget of only the current node.

Contingency at Node displays the Risk Budget of only the current node.

5.4.7.1. Calculate Headline Quantitative Score

Users can disaggregate the quantitative assessments into individual elements to support team members to understand how the headline value was identified.

Within the Quantitative Editor double Click on the **Value field**, to access the editor to assign the component values.

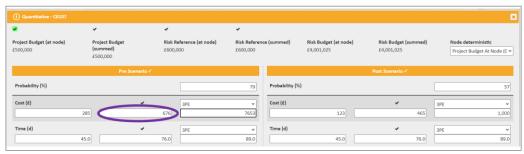


Figure 61 – The Assessment panel

The following editor will appear.

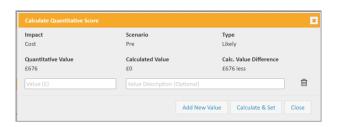


Figure 62 – The Calculate Quantitative Score panel

Impact: This shows you which impact you are working on.

Scenario: This displays which Scenario you are working on.

Type: This displays the scoring type, e.g., Minimum, Likely or Maximum.

Quantitative Value: If no value has been previously entered in the quantitative assessment editor, this will be £0.00. If a value has previously been entered, then this is the value that will be displayed.

Calculated Value: This is the calculated value from the individual line items that can be added in this editor.

Calc. Value Difference: This will display the variance between the newly entered individual values and to that captured in the quantitative assessment panel.

For example, in the screenshot below, there was a previous value of £676 captured in the quantitative assessment panel. A single line item of 200 has been added, hence the Calc. Value Difference of £476.

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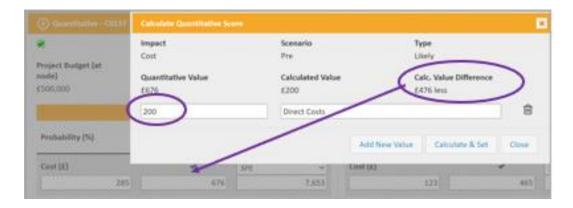


Figure 63 – The Calculate Quantitative Score – Value Difference

To add new values, click on Add New Value.

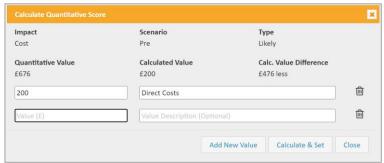


Figure 64 – The Calculate Quantitative Score – Adding New Values

Type in the value and value description and select Calculate & Set.

This action will return you to the quantitative assessment editor and will display the calculated value. Where a calculated value has been generated this is indicated by the calculator icon appearing in the left-hand side of the value field

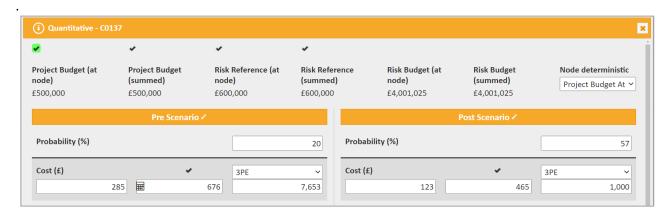


Figure 65 – The Calculate Quantitative Score – Headline Score

To remove a calculated value item, open the Calculate Quantitative Score editor and click on the **delete icon** (bin icon). This will turn red when selected.

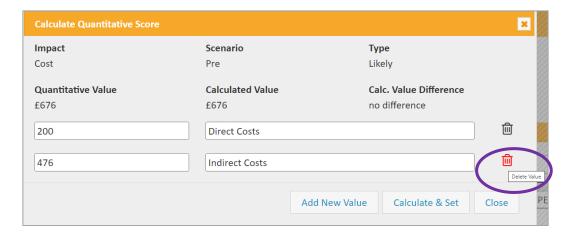


Figure 66 – The Calculate Quantitative Score – Deleting a Value

Once selected, a confirmation message will appear to check if you wish to delete the value.



Figure 67 – The Calculate Quantitative Score – Confirmation Message

Once deleted, select **Calculate & Set** to re-calculate your updated values.

Importing updated headline quantitative values

If the headline quantitative values are exported in an I/O register, changed and re-uploaded, whilst the headline value will change, the individual Calculated Quantitative Scores will not be changed. Where the updated headline value is different to that of the sum of the individual Calculated Quantitative Scores, this will be indicated by a **warning icon** (Red triangle).

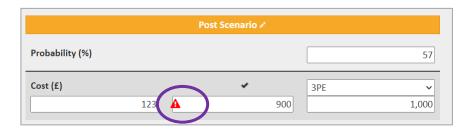


Figure 68 – The Calculate Quantitative Score – Warning Icon

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Left click on the warning icon and update the individual values as appropriate.

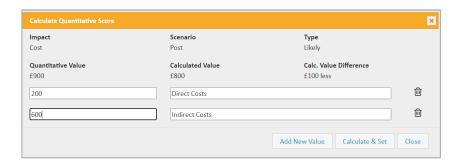


Figure 69 – The Hybrid Scoring panel

Note 1: You do not have to use a calculated value for every entry.

Note 2: The individual calculated values are currently only available via this new editor.

5.4.7.2. Qualitative Conversion

If you have **Quantitative Cost** Impacts and wish to convert these to **Qualitative** scoring you follow a very similar process to **Quantitative Conversion**.

In the following example, we are converting the target **Quantitative** figures to **Qualitative** figures of the Target scenario, but this is the same process for any scenario:

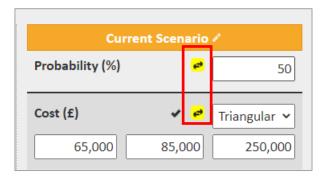


Figure 70 – The **Quantitative Cost** impact within the **Target** scenario

Note: Whist all users will be able to click on the 'convert' option and see what the conversion results would be, the ability to carry out the conversion is only possible if you have the 'Convert Scores' permission.

Dependent upon the customers' requirements, the system can be set up by riskHive Support to convert the quantitative 3-point estimate into a qualitative score using 3 different methods.

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5.4.7.3. Current Mean Conversion

Select the **Conversion** button and the following panel will appear:

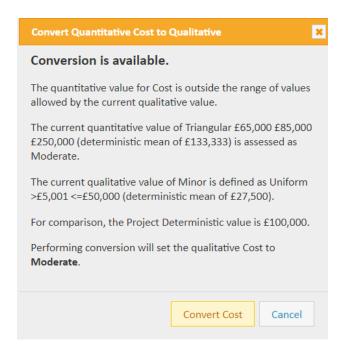


Figure 71 – The **Qualitative Conversion** panel

The Current Mean is established by ((£65,000 + £85,000 + £250,000) / 3) = £133,333.

The **Equivalent Qualitative** uses the pre-established qualitative levels in the system background to assess which qualitative level the current mean relates to. In this case the levels are:

Negligible <=£5,000

 Low
 >£5,000-<=£50,000</td>

 Moderate
 >£50,000-<=£500,000</td>

 High
 >£500,000-<=£2,000,000</td>

Very High >£2,000,000

Note: The means are for display purposes, they provide a summary of the values. Depending on the "Best Fit conversion" being used in the system (see below), The actual level selected may depend on a range of values or the mean.

The Current Qualitative shows the current qualitative value if there is one. If there is no current **Qualitative** assessment, this will say **<Not Set>.**

Project Deterministic shows the project budget.

Select the **Convert to Equivalent** option. **Moderate** will now be placed in the qualitative current cost section.

Note: Whist all users will be able to click on the 'convert' option and see what the conversion results would be, the ability to carry out the conversion is only possible if you have the 'Convert Scores' permission.

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5.4.7.4. Current PERT Mean Conversion

Upon customer request, riskHive Support can apply a PERT Mean conversion:

The **Current PERT Mean** is established by ((£55,000 + (£75,000*4) + £100,000) / 6) = £75,833.33.

In this case, £75,833.33 = Medium.

5.4.7.5. Best Fit Conversions

When converting the quantitative values to the qualitative equivalent the default setting is 'Best Fit (Range). This considers the impact range (Min £55,000-Max £100,000) which in this example covers the Medium qualitative level.

Upon customer request, **riskHive Support** can apply a Mean conversion which establishes the most suitable qualitative level according to the mean outcome.

5.4.8. Hybrid Scoring

In some cases, your organisation may use a mixture of qualitative and quantitative scoring for different impact types.

For example, quantification may be required for cost and time, but only a qualitative assessment is needed for other impacts, such as Performance, Reputation and Health and Safety as those impact types are not quantifiable.

To support these cases a Hybrid Scoring panel is provided to enforce the scoring methodology across the organisation.

The combination of qualitative and quantitative assessment methods is configurable in System Administration and can be set at each node level and inherited / overridden at child nodes.

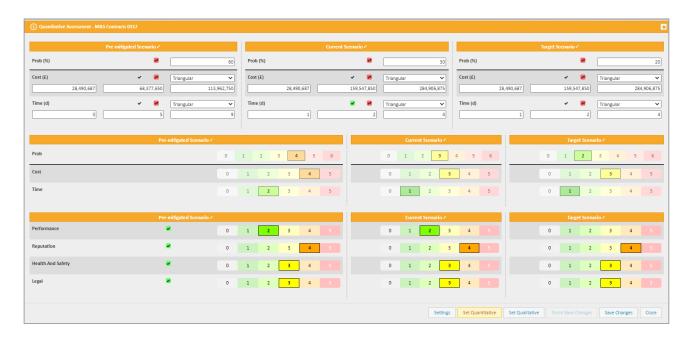


Figure 72 – The **Hybrid Scoring** panel

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When you enter the probability and quantitative values, the system will calculate the qualitative equivalent against the reference tables when the Save Changes button is clicked.

This means the ability to report using heatmaps and RAG statuses is maintained and eh qualitative scores automated when quantitative scoring is in use.

The calculation is based on the parameters configured in administration of the node metadata.

There is also the option to calculate the qualification equivalence at Project or Programme level by selecting the 'summed' version of the denominator.

By clicking on **Settings** at the bottom of the panel, this will display the current selected conversion factor. You can change the qualification assessment by clicking on either:

Project Budget at Node This calculates the RAG status based on the budget at the node

level that you are working in.

Project Budget Summed

This calculates the RAG status based on the budget levels,

summed. I.e., will include all project budgets below and

including the node you are working in.

Risk Reference at Node This calculates the RAG status based on the alternative Risk

Reference figure to the project budget.

Risk Reference Summed This is the alternative figure, summed. I.e., will include all risk

references below and including the node you are working in.

Project Budget and risk reference numbers are entered in the Node Edit panel.

See section 5.1.5 Edit Node Data for instructions on how to do this.

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5.4.9. Escalation

We can view risks by selecting a node from the EPS. However, there is another way of viewing risks - through a function called **Escalation**. Escalation does not move, edit, or delete the risk. Escalation purely allows us to view risks in a different hierarchical way by giving the risk a hierarchy tag.





Figure 73 – The **Escalation** button and panel

When a risk is assessed, the Likelihood and Financial Impact is used to provide the risk with a generic number score. This number is then plotted on a Heatmap report which generates an overall score for the risk. When a risk attains certain scores, it will automatically be raised to the next escalation level. For example, if a risk acquires a score of 15, it may automatically be escalated to the next level, moving from Escalation 3 to Escalation 2.

The **Escalation** levels are set up by the administrator.

You can override the automatic **Escalation** by using the **Escalation Level Override** section. You select the Escalation Level and select **Save Changes**.

5.4.10. Treatment

Once the risk has been described and assessed, we now need to understand how we will intervene and mitigate the risk. Emphasis is placed on understanding how a risk is being mitigated and the success of that mitigation.



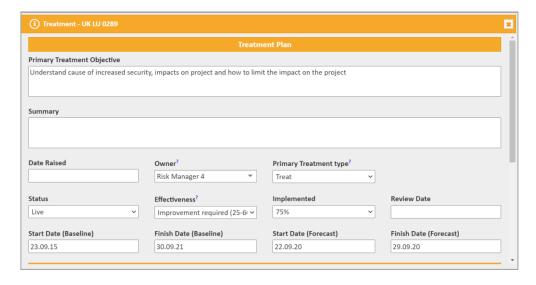


Figure 74 – The **Treatment** button and panel

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The **Primary Treatment Objective** describes the overall approach to mitigating the risk. This should be a broad statement showing the key actions. Where a large amount of text has been added to this field, users can select the 'pop-out' Icon to view the text in a new panel.

The **Summary** is a free text field. Where a large amount of text has been added to this field, users can select the 'pop-out' icon to view the text in a new panel.

The **Primary Treatment Type** list helps identify if the risk will be tolerated, treated, terminated, transferred, or considered residual.

The **Owner** of the risk is identified as the person with overall responsibility for the mitigation and responsible for reporting progress.

The **Effectiveness** captures the degree to which the plan is effective.

The **Implemented** captures the degree to which the plan has been implemented.

The Status of the plan is stated as Not Approved, Approved, Live or Completed.

This panel is critical when it comes to visual **Bowtie** analysis and a key determinant when **calibrating** risk information across the project.

The Start Date (Baseline) indicates the date when the overall Treatment is planned to start.

The **Finish Date (Baseline)** indicates the date when the overall Treatment is planned to finish.

The date when the overall Treatment started is shown in the Start Date (Forecast).

The date when the overall Treatment finished is shown in the Finish Date (Forecast).

At the bottom of the panel shows the **Controls, Fallback** and **Response** actions in a table format:

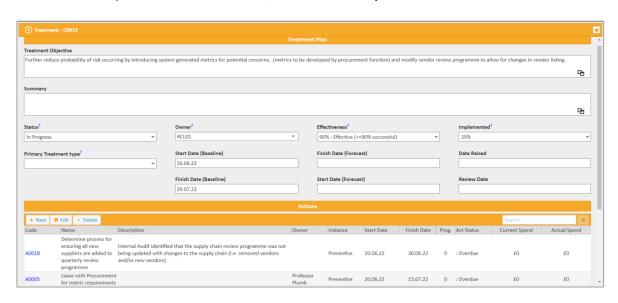


Figure 75 – The Treatment and Actions Table

You edit the actions using the 'Edit' button or by clicking on the action code. This will bring up the actions panel.

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5.4.10.1. Treatment Actions

To create a **Control**, **Fallback** or **Response**, select **New** and the following panel will appear:

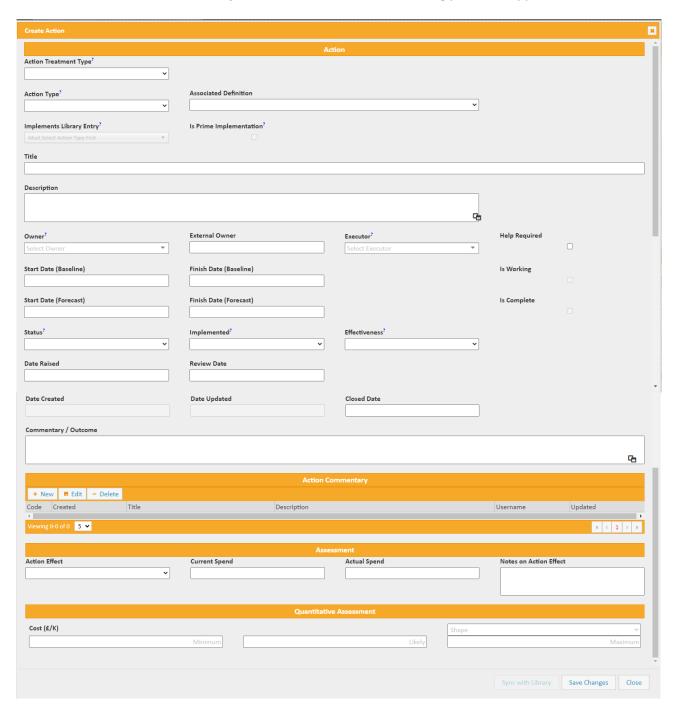


Figure 76 - The Treatment Actions fields

The **Action Treatment Type** field shows if the approach is to Tolerate, Treat, Terminate, Transfer, or consider the risk as Residual. When a selection is made in **Implements Library Entry**, an empty (or default) **Action Treatment Type** will be updated to match the Library Control, but this value can be changed.

The **Action Type** identifies if the action is a **Control** (addressing a **Cause**) or a **Response** or **Fallback** (addressing an **Effect**).

The **Associated Definition** shows which Cause or Effect the action is addressing.

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The **Implements Library Entry** field allows the user to select a pre-defined control. The list of pre-defined controls will change according to Action Type selected. (Note: this field is not visible by default and must be added to the Actions panel by an administrator.)

The **Prime Implementation** field, when checked, indicates that this Action is the primary implementation of the Library Control for its associated Cause or Effect. There can only be a single prime implementation of a given Library Control for a given Cause or Effect. (Note: this field is not visible by default and must be added to the Actions panel by an administrator; also, this field requires **Implements Library Entry** to be visible.) Refer to Section Controls Library - Nested Actions for details when using this check box.

The **Title** is a short phrase to describe the action. When a selection is made in **Implements Library Entry**, an empty (or default) **Title** will be updated to match the Library Control, but this value can be overwritten.

The **Description** provides more details about the action. When a selection is made in **Implements Library Entry**, an empty (or default) **Description** will be updated to match the Library Control, but this value can be overwritten. Where a large amount of text has been added to this field, users can select the 'pop-out' Icon to view the text in a new panel.

The **Owner** is responsible for fulfilling the action and reporting to the **Risk Owner** on the action's status, completion, and effectiveness.

The **External Owner** is a free text field, and can be renamed to capture additional action metadata.

The **Executor** is the person conducting the action (although normally this is the **Action Owner**).

The **Status** of the action shows if it is unapproved, approved, live, or completed.

The **Implemented** shows how much of the action has been implemented so far. The system can now be configured so that when Users select Action Status to Completed, the Action Implemented will automatically be set to 100%.

The **Effectiveness** is how effective is this action, is it reducing the **Probability** or **Impact** as expected?

Ticking the box Helped Required indicates that the Action Owner/Executor required additional assistance.

The checkboxes **Is Complete** and **Is Working** have configurable settings nominally controlled by the Implemented and Effectiveness settings, respectively. Usually an action is deemed "is complete" when it reaches 100% implemented, though in some cases this could be 75%. An action deemed "is working" when its effectiveness is generally "Effective >90%". These values are configurable according to the data set configuration. They may for example also include a specific status value (Approved or Live say).

One additional configuration setting is the ability to override the selections for Implemented and Effectiveness. This may be achieved by tagging an action "Is Complete" and/or "Is Working" by checking the boxes irrespective of the corresponding drop list values. Note that this functionality is usually configured off but may be enabled by software support.

Identify when the risk was raised by selecting **Date Raised**.

The **Review Date** when the action's completion and effectiveness will be next reviewed.

The **Start Date (Baseline)** indicates the date when the action is planned to start.

The **Finish Date (Baseline)** indicates the date when the action is planned to finish.

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The date when the action started is shown in the Start Date (Forecast).

The date when the action finished is shown in the Finish Date (Forecast).

The Date Created and Date Updated fields (shaded grey) are system generated fields.

The **Closed Date** field is the date the action was closed. This can be manually entered, or the system may be configured so that this date is automatically updated when the Action Status is set to Completed/Closed. **Note:** If, as a user you select the Action Status as Completed/ Closed and then change the status back to Active, the date will not change, and will have to be manually modified. When selecting the option to Completed/Closed again, the field will be updated with the date this status was selected. This field is not usually displayed unless Users are required to manually update this field.

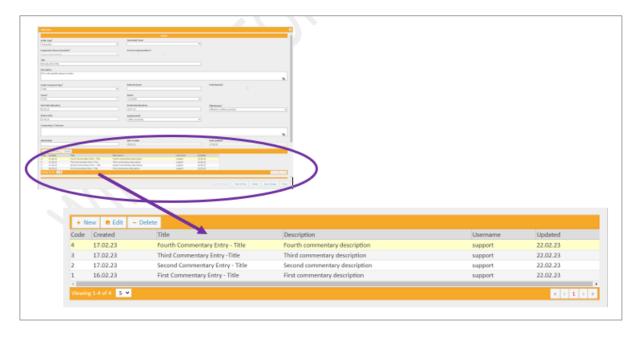
Any comment can be entered in the **Commentary/Outcome** section i.e., problems completing the action, help required. Where a large amount of text has been added to this field, users can select the 'pop-out' Icon to view the text in a new panel.

5.4.10.1.1. Actions Commentary Panel

Multiple comments can be created for a specific action.

Each new entry will have its own Code, Created Date, Title, Description, Username (who created the comment) and the Date it was updated.

When the commentary is created for the first time, the updated date will be that of the created date.



This information is not able to be displayed on the Action grid, however, it can be exported for reporting purposes.

5.4.10.1.2. Actions Assessment Panel

The **Action Effect** describes the aim of this action. Generally, actions aim to reduce the Probability and/or Impact.

The **Current Spend** indicates the money being spent currently.

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The **Actual Spend** indicates the amount of money so far spent on this action.

The **Notes on Action Effect** indicate how effective this action is so far.

5.4.10.1.3. Actions Quantitative Assessment Panel

The **Quantitative Assessment** is the assessment format of the estimate cost of the action.

Finally, the **Cost** is the estimated cost of the action by identifying the minimum cost, most likely cost, and potential maximum cost of the action.

Once all entries have been completed select Save Changes.

Note: If the Controls Library is in use, users will have the option to select **Sync with Library**. Where the Title, Description and or Treatment Type varies from the library configuration users have the option to select, Sync with Library. Where the Title, Description and or Treatment Type match the library configuration this field will be greyed out.

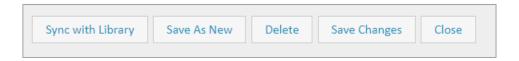


Figure 77 – The Sync with Library button

5.4.10.1.4. Controls Library – Nested Actions

Once you have selected a control from the **Implements Library Entry** options, you may choose to make this action the **Prime Implementation**. If this box is checked, the action is identified within the system as a formal **CONTROL** in the audit column of the action grid.

Many actions can implement the same Library Control for a specific Cause/Effect, but only one action can be the **Prime Implementation**. The others are marked as ACTIVITY in the audit column of the action grid and can be consider as "nested" inside the primary implementation marked **CONTROL**.

For a set of actions that implement the same Library Control for a specific Cause/Effect, where one is set as the **Prime Implementation**, all will show the action code of the primary implementation in the Prime column of the action grid. This makes it easy to see the group of actions that contribute to the primary implementation.



Figure 78 – The Action Panel – showing CONTROL / PRIME ID

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When a **Prime Implementation** has been set, creating, or updating an action with the same Library Control and specific Cause/Effect will show a warning when attempting to make the non-primary implementation into the primary. If no warning is shown, there is not currently a Prime Implementation for this Library Control and Cause/Effect combination.

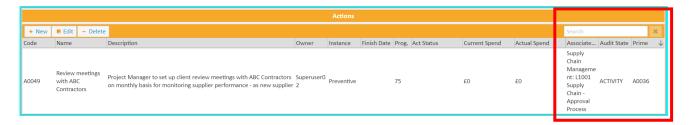


Figure 79 - The Action Panel - showing ACTIVITY and associated Prime ID

Note: If you are using this functionality, it is suggested that the action grid is sorted by Prime ID then by Audit State. This will make it easier to see the groups of actions that are associated with controls, and which is the primary implementation.

5.4.11. Allocation

The allocation is an essential field as it shows the level of **contingency funding** required/allocated to cover the risk. When the User performs Monte Carlo simulations at a later stage the simulation outputs allow for the User to then automatically re-adjust the **Allocation** field based on the simulation outputs.



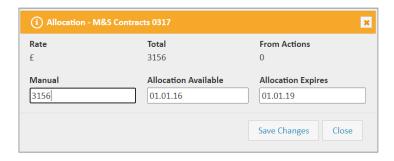


Figure 80 – The **Allocation** button and panel

The currency of the project is shown by the £ sign underneath Rate. The Total money allocated and spent is listed and the cost of The Actions is also shown. The current cost of the actions will automatically be summed by the system and entered into the From Actions field when the Treatment panel is completed. The contingency funding is entered into the Manual field along with when this funding will be available.

5.4.12. Emoticons

Most of the information we enter into the system will be based on facts or the information we hold has a certain quality or level which makes us feel secure making decisions. However, sometimes we rely on our own experience, skills, and gut feel. We can tag a risk with an **Emoticon** which means we feel a certain way about a risk. This is subjective but can bridge the gap between what is known and our own sense of the risk e.g., a risk may appear to being successfully mitigated but as a seasoned professional you may feel the risk still needs close monitoring, or you feel uneasy about the risk and therefore tag the **Emoticon** of the risk as **Bad**.

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Figure 81 – The **Emoticons** button and panel

Select the mood you feel towards the risk and then **Save Changes**. This symbol will be displayed in the **Mood** column on the main screen.

Note: Emoticons can be configured with different icons, where those icons can be added by support in our software. In the example below, the icons have been configured to indicate the level of risk movement. This is a manual selection, not logic driven.



5.4.13. Audit and Review Record

Reviewing the progress of a risk is fundamental and used in many meetings and reports. The **Audit and Review Record** panel allows Managers to understand how the risks are changing and the review process.



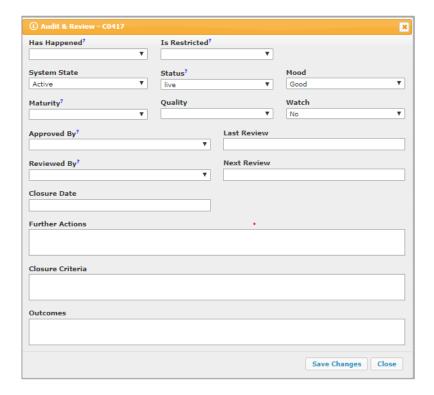


Figure 82 – The Audit and Review Record button and panel

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The **Has Happened** is used, to indicate that the risk has occurred.

The **System State** indicates whether the risk is **Quarantined** (not approved), **Active** (approved), **Retired** (no longer a threat) or **Attested** (the risk has been confirmed it is true).

The **Status** gives more detailed status levels such as **New** (the risk is new), **Live** (the risk is live and being mitigated), **Watch** (monitor the risk), **Approved** (risk approved), **Retire** or **Archive** (risk no longer a threat), **Risk Occurred** (risk developed into an issue). Your administrator will edit the Status list to fit with your company needs.

We can tag a risk with an **Emoticon** which means we feel a certain way about a risk e.g., a risk may appear to be successfully mitigated but as a seasoned professional you feel the risk still needs close monitoring. In this case, you feel uneasy about the risk and therefore can tag the risk with a **Bad emoticon**.

Maturity could represent familiar risks, risks where there is a history and therefore the information, we hold is mature. Equally, in new fields, technologies or industries risks have immature information as there are lots of unknowns and as information is gathered the risk matures.

The quality of the information you hold on the risk. There may be gaps in information or the information is inconsistent. Good **Quality** information is reliable, poor **Quality** information is vulnerable.

Like an **Emoticon**, use **Watch** when you wish to monitor a risks progression.

Approved By indicates the person who confirmed this was a true risk and would go through an assessment process?

Last Review shows the date when the risk was last reviewed.

Reviewed By shows the person who conducted the last review.

Next Review indicates the date of the next review.

Closure Date shows the date when the risk was closed. **(Note:** depending on the configuration of your Instance, this field may or may not be automatically populate when users select the risk state of closed).

Any **Further Actions** that should be taken after the closure of this risk i.e., transfer information to another department, collect knowledge management records.

Closure Criteria shows the basis or criteria that meant this risk could be closed.

Outcomes shows any further events/results after the risk is closed.

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5.4.14. Commentary

The **Commentary** panel is useful for adding general comments. Comments could relate to the changing context of a risk, the mitigation success, key information that develops during the life of the risk or the schedule which may be impacted by the risk. Comments can relate to anything but should provide the reader with additional useful knowledge.





Figure 83 – The **Commentary** button and panel

To create a new comment, select **New** and a panel will appear:

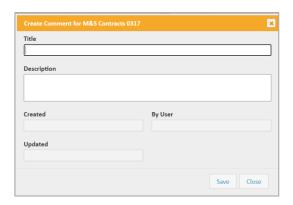


Figure 84 – The **Comment** panel

Give the comment a **Title**. Write the comment in the **Description** section (which will be shown on the **Comments** page) and select **Save**.

5.4.15. Email

A risk can be selected and then emailed to a colleague or a number of colleagues (using the CTRL key to select multiple names) providing the colleagues email details have previously been entered into the system by the administrator.



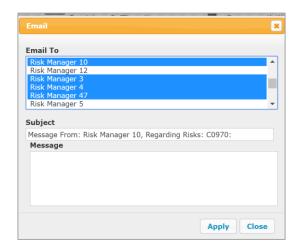


Figure 85 – The **Email** button and panel

Identify who you wish to send the risk to, give the email a **Subject** and **Message** and then select **Save & Send**. The email recipient will receive an email containing your message, not a copy of the risk.

When in edit mode, the system will automatically capture the risk code, however the subject field can be edited as appropriate.

5.4.16. Archive

The **Archive** panel maintains a record of all risk changes. All records can be opened and all the information about the risk at that point in time is saved in the format of the **New Risk** dialogue. Any of the captured records can be restored by returning the risk back to a specific point in time by selecting **Restore**.

Note: If a risk is restored from certain point, the retrieval will also include the Treatment, Actions and Action Commentary from that time stamp.

The information Users can see will depend on the display configuration completed by the System Administrator.



Figure 86 - The **Archive** button and panel

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5.4.17. Linked Objectives

The Risk Manager will need to enter the objectives into the system before they can be selected but once inputted the user can identify which objectives the risk may impact. This is important when measuring risk against corporate strategy as well as the strategic objectives of the various divisions.



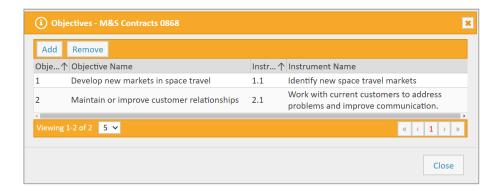


Figure 87 – The Linked Objectives button and panel

Select **Add** and select an **Objective** from the list. Each **Objective** may have a sub-objective (**Instrument**) list underneath. After each selection, select **Add**.



Figure 88 – The **Objectives and Instrument** panel

5.4.18. Linked ISO Codes

As with the **Objectives**, the **ISO Standard Codes** will need to be added to the system first, but once added you can identify which codes the risk relates to.



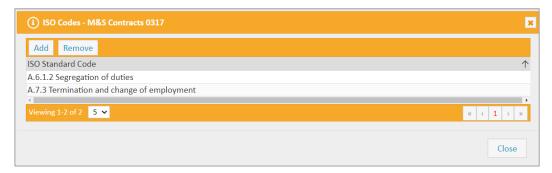


Figure 89 – The ISO Standard Codes button and panel

Select **Add** and the following panel will appear:



Figure 90 – The ISO Standard Codes list panel

Select a code from the list, then select **Add**. Repeat until all the codes relating to the risk are selected.

5.4.19. Linked Insurance

It is useful to understand if all or part of the risk is covered by insurance which could reduce the number of actions taken and the allocation made.



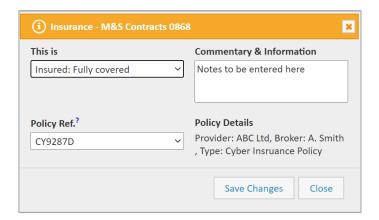


Figure 91 – The **Insurance** button and panel

This provides a list with varying levels of insurance cover. The **Policy Ref** provides the reference details. **Commentary & Information** allows you to describe the elements of the risk which are covered by insurance. At present, insurance details are to be provided to riskHive Ltd who will ensure the details are entered into the system.

5.4.20. Attachments

The **Attachments** tab allows you to upload documents as well as attach hyperlinks relating to the risk. This is incredibly powerful where teams are relying on certain business artefacts, e.g., risk management plan, financial models, schedules etc.





Figure 92 - The Attachments button and panel

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To attach a document (Microsoft Word, Excel, PowerPoint, Project as well as PDF and notepad text files) select **Upload Attachment**. To include a hyperlink select **Add Hyperlink**.

5.4.21. Group Membership

The **Group Membership** option can analyse data across many risk registers to identify potential links or relationships which may need to be monitored. To manage potential relationships, risks can belong to groups. The risks will not be moved out of their current **EPS node**, they simply belong to a group which can be recalled whenever necessary.

The **Group** column on the main page will indicate which risks relate to which **Groups** (by showing the **Group Ids**):

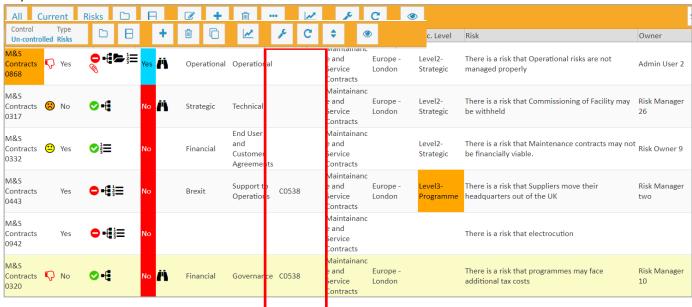


Figure 93 – The Group column

In the above example, several risks belong to Group CO538. To view this group, select one of the risks, select **Edit** and then **Group Membership**.

The following panel will appear showing the **Group Code** as C0538:



Figure 94 – The **Group Membership** button and panel

5.4.22. Linked Tasks

It is very helpful understanding if a risk impacts an action on a schedule. The schedule activities must first be loaded into the system but after this it is a simple case of selecting which activity the risk could impact.

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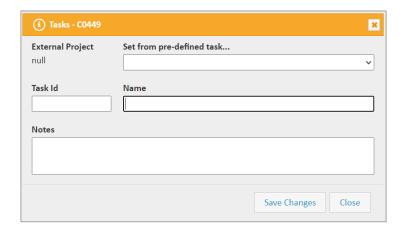


Figure 95 – The **Task** button and panel

The specific MS Project is added from **Admin Datasets** and then **Projects**. This functionality is vital when assigning risks to a WBS structure (**Alternate Structure**) so that teams can see where schedule risks are.

Select from the list underneath **Set from pre-defined task** and the **Task Id** and **Name** will automatically populate. Additional comments can be added to the **Notes** section describing how the risk could impact the task.

Select Save Changes.

5.4.23. Alternate Views

The **Administrator** can set up different ways of looking at a project. The default approach is by showing the risk registers that exist within each project. However, there are alternative views such as a Work Breakdown Structure or a Cost Breakdown Structure. The Alternative Views will be decided by your organisation.



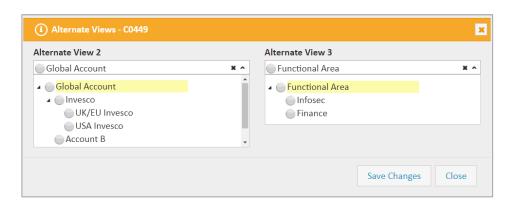


Figure 96 – The Alternate Views button and panel

Alternate Views enables risks to be viewed in different contexts. When these are assigned to a risk it provides a powerful alternate view of risks and provides an insightful means of correlating risks against costs and tasks.

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5.4.24. Custom Data

The Administrator can add additional lists in which to describe the risk. If you are required to add in additional data, these fields will be available to you and will be specific to your organisational requirements.

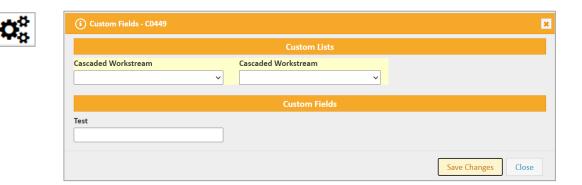


Figure 97 – The **Custom Data** button and panel

Lists could include workstreams or different departments. The ability for the administrator to add your own lists will help to understand the impact the risk could have on the wider business, areas, or disciplines.

Complete as much as possible and select Save Changes.

5.4.25. Issues

You can create an **issue** directly in the system, by selecting **issues** in the descriptor options.

When you select 'Issue' the Issue Edit icon will appear in the edit panel.



Figure 98 - The Issue edit button

By selecting the Issues icon, this will allow you to capture specific information regarding Issues.

When you change a risk or opportunity to a risk, the system captures the date this occurred. This is displayed in the **Became issue on** field.

The fields to capture **Status**, **Priority**, **Scope Change** and **Escalation** are provided as standard, however there are 4 additional custom drop lists available.

The content and name of these lists are customisable with help from riskHive Technical Support.

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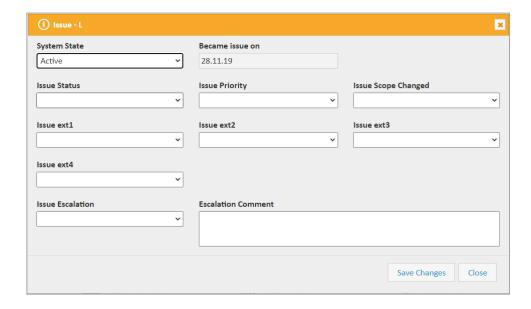


Figure 99 – The Issue panel

5.4.26. Trends

Trend information regarding a risk can be captured.

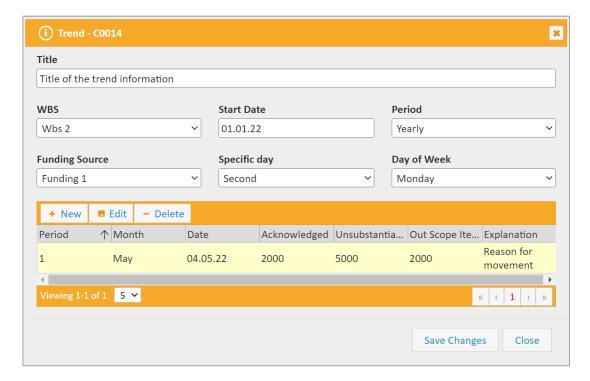


Figure 100 – The **Trend** panel

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5.4.27. AAR Panel (Single Source Pricing Compliance Regulatons)

If you need to comply with AAR Compliance requirements you are able to select if the risk is **appropriate**, **attributable** and/or **reasonable**. Users can also provide a justification for each of these elements.

The Administrator can add additional options lists. If you are required to add in additional data, these fields will be available to you and will be specific to your organisational requirements.

This functionality is switched off by default but can be enabled by your system administrator.





Figure 101 – The AAR panel (Single Source Pricing Regulation Compliance)

The results (against each risk) might appear on the grid as follows.



Figure 102 - The AAR results

Note: One current limitation of Question Array sets (SSPR) is that they may only be reported. Updates cannot be imported (IO register).

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5.5. New

The Create New panel uses a combination of Definition, Qualitative, Quantitative, Hybrid, Treatment, Responsibility, Proximity and Classifications at the top of the panel. The order in which they appear, will have been set up during configuration in accordance with your risk management policy.

When creating a new risk, the user has the potential to provide a lot of key information and the risk will be created in quarantined form (it is not yet approved). Users should not feel they must enter data into all fields but rather (i) only enter data where they have precise information, and (ii) only enter the amount of data necessary to perform the requisite analysis. However, sufficient quality and quantity of data enables better and broader analysis and reporting. All the functionality and support the system offers is rarely used but Risk Managers and other risk-based executives can increase the value they add and the risk intelligence of the organisation by using ERM to ask the difficult and uncomfortable questions which arise from good risk analysis.



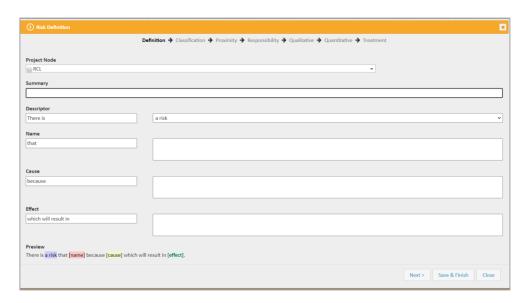


Figure 103 – The Create New Risk button and Definition section

The **Project Node** option lists the EPS to ensure the risk is stored in the most suitable place.

The **Summary** text box enables you to provide a concise statement describing the risk.

The **Descriptor** ensures the event is appropriate described as a risk, opportunity, issue, notification, assumption, trend, action, or benefits. What you will see, will depend on the configuration of your system.

The **Name** is the full name of the risk.

The **Cause** is the reason why the risk is occurring.

The **Effect** is the consequence or result if the risk occurred.

The **Preview** shows the **Name**, **Cause** and **Effect** within a statement which helps focus the mind as to the description of the risk.

Select **Next** to move to the **next panel**.

To complete the process, refer to the panels as described in the 'Edit Panels' section of this document.

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5.6. Delete

A **deleted** risk will be removed from the screen and placed in the archive. You can select 1 risk or several risks for deletion.



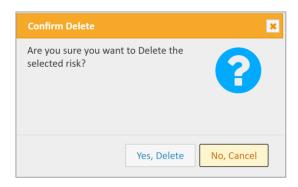


Figure 104 – The **Delete** button and panel

Once the button Delete is selected, the system checks and asks if you still want to proceed with the deletion. Select **Yes, Delete**.

Should a user wish to see deleted risk and permissions are provided, these can be seen by changing the grid view to show Archived (Deleted) risks). No edits can be made from this view. Only System Administrators can delete a record permanently (purge) or restore deleted risks.

5.7. Duplicate

A risk(s) can be copied to the current or any other node.



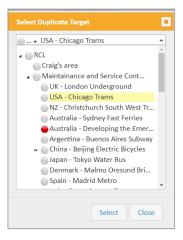


Figure 105 – The Copy Risk button and panel

Select the **Copy Risk** button, select the risk register where the risk should be located, then choose **Select**. Another panel will open checking you wish to continue and copy this risk:

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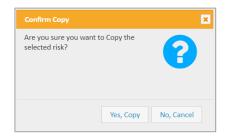


Figure 106 – The **Confirmation** panel for copying risks

Select **Yes, Copy** and the risk will be generated and displayed in the main screen.

<u>Note</u>: If there are many risks to copy, ask your administrator to help as the administrator can move multiple risks from one node to another.

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5.8. Reporting

5.8.1. Dashboards

The **Dashboard** option provides a variety of reports and graphs to view how your risks are performing or impacting a project. They are the fundamental reason why we take so much care and attention in inputting risk data. When configuring and generating standard or customised risk reports the need and utility of all the system's complexity becomes apparent. Without entering all the data, the User would not have the same level of visibility and insight into project complexity. Project reports enable the User to display risk data and risk analyses in a variety of ways which help executive managers bridge the gap from risk to action. More importantly, good risk reporting uncovers dependencies and implications which are only visible through deep analysis and by correlating disparate and seemingly unrelated data sets.

There are 2 entry points into the Dashboards system

- 1: Main page Dashboards Panel
- 2: Independent Dashboards page.

Both offer access to the same set of dashboards as described individually below. The main page panel reports immediately on the node/risks/actions you are viewing. The independent dashboard page provides a browse and report view of the system. The Dashboards page may be bookmarked and used as the main entry point into the system for those users who are interested in the state of the system rather than managing content.

The Dashboards page is accessed from the main navigator.

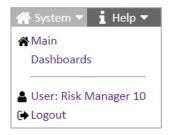


Figure 107 – Main navigator drop down list

On entry to the page a dashboard is loaded by default. The default dashboard can be changed (per deployment) as well as its default configuration (e.g., Node & descendants, just active risks etc.).



Figure 108 – Dashboard Configuration panel

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There are 2 main controls once in the dashboards page.

Top left, to "Configure" location and risk selection



Figure 109 – Configure Dashboard

And top right, to **select**, **configure** and **print** a dashboard.



Figure 110 – Configure Dashboard – Print link

The main "Configure" invokes the following navigation tool. Here you can change nodes/projects as well as select and filter on specific risks.

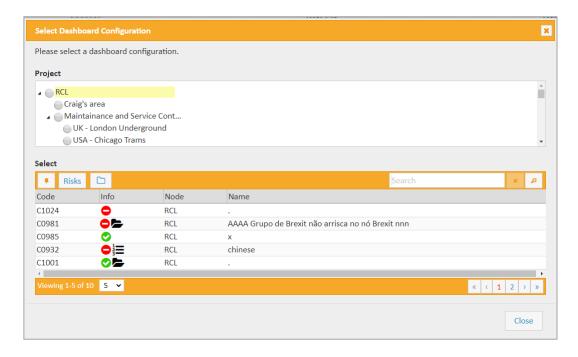


Figure 111 - Configure Dashboard - Print

To change dashboards, select "Dashboards" from the top right. This invokes the standard dashboard list as available from the main page. The "Configure" option here allows re-configuration of the selected dashboard e.g., Node & Descendant, Quarantined risks.

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The dashboards page and panel have as default the following set of reports.

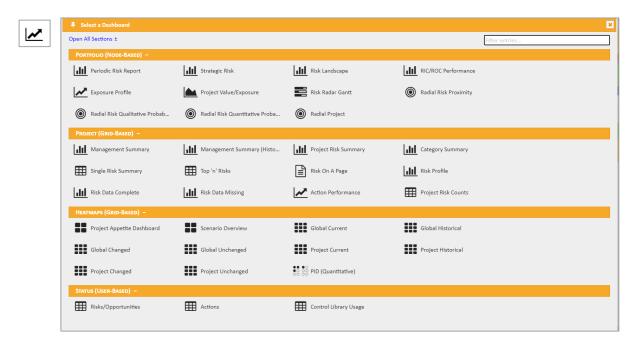
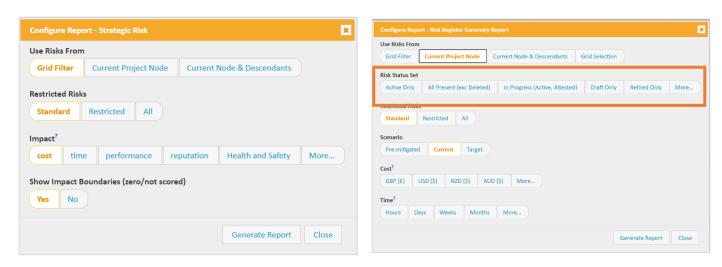


Figure 112 – The **Dashboard** button and panel

When you select any of the dashboards a configuration screen will appear. Common for all dashboards are the options around **User Risks From, Risk Status Set** and **Restricted Risks**.

The default is to report on the Grid filter. If you select any other option an additional suite of selections within the **Risk Status Set** appears.



Default reporting configuration screen

Additional options when selecting outside of the Grid Filter

Figure 113 - The Configuration panel

Each dashboard will include additional configuration options depending on the report selected. For example, the Monthly Risk Report will require data around reporting periods, and Heat Map Dashboards will require configuration regarding scenarios.

Where there are more options than can be displayed on the screen, there will be a **More** button, which when selected will display all the options available.

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5.8.1.1. Periodic Risk Report

This dashboard provides a current and historical overview of a selected project and descendants. It lists counts of risks created, closed and quarantined within each of the reporting periods as well as giving a breakdown of the heatmap scoring such as Critical, Major risks.

Configure the report to use risks at the current node and/or descendants. The reporting periods can be days, weeks, months or quarters. **Number of periods** defines how many reporting periods, whereas **Number of periods in detail tables** specifies how many risk and actions lists are produced in the report, generally this is the latest set (default=1).



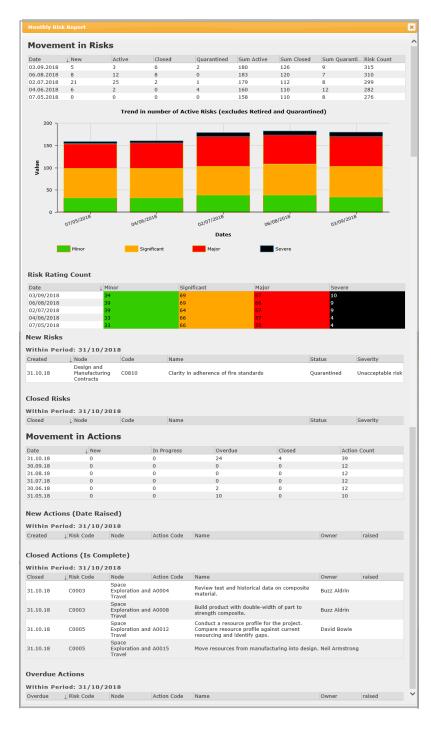


Figure 114 – The Periodic Risk Report button and dashboard

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As the report provides a high volume of information in the tables, below is a detailed explaination of the data tables and graphics.

Movement in Risks Columns

The Movement in risks columns provides the count of risks created (new) and the count of risks assigned the status of either Quarantined, Active or Closed during a given period.

The counts of these columns are independent of each other.



Figure 115 – Time duration with the Movement in Risks Report

Date: The count of the risks is dependent on the period ranges and calcuated as follows:

Period 1: 06.08.2018 - 03.09.2018 - the system is counting risks from midnight on the 06.08.2018 up to the time you ran the report on the 03.09.2018.

Period 2: 02.07.2018 – 06.08.2018 - the system is couting risks from midnight on the 02.07.2018 up to midnight of the 06.08.2018.

New risks: These are the risks that have been **created** in the system, irrespective of the start/end date of the risk.

Active, Closed and Quarantined risks: This is the count of risks that have the status of Quarantined, Active and Closed at the time of running the report for that period.

Risk Sum Columns

The second series of columns is the sum of all risks (dependent on the reporting configuration), and as with the movement counts, these too are independent of each other.

Date	Sum Active	Sum Closed	Sum Quaranti	Risk Count
03.09.2018	180	126	9	315
06.08.2018	183	120	7	310
02.07.2018	179	112	8	299
04.06.2018	160	110	12	282
07.05.2018	158	110	8	276

Figure 116 – Summed risks within the Movement in Risks Report

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Sum Active, Closed and Quarantined: This is the number of risks that had the status of Quarantined, Active and Closed during the reporting periods.

Risk Count: This is the sum only of the Sum Quarantined, Sum Active and Sum Closed.

Note: If, on your report the sum does not equal the sum of all three status's, this would happen if you are using the status option of 'Attested' and the report does not currently show 'Attested' risks.

Trend Graph

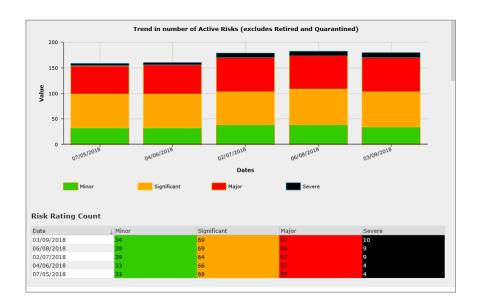


Figure 117 – The Trend Graph Report

The **Trend Graph** provides a bar graph of counts of risks over each of the periods (dependent on the configuration of the report. I.e. if you selected only Draft Risks only Draft risks would appear in the graph).

The corresponding **Risk Rating Count** summarises this information in a table.

Movement in Actions

Movement in Actions provides the count of actions **new** (date raised) **In-progress, Overdue** and **Closed** during the reporting period. It also provides a summation of such actions.

Action Count: This is the total of actions in the system during that period.

Date	↓ New	In Progress	Overdue	Closed	Action Count
31.10.18	0	0	24	4	39
30.09.18	0	0	0	0	12
31.08.18	0	0	0	0	12
31.07.18	0	0	0	0	12
30.06.18	0	0	2	0	12
31.05.18	0	0	10	0	10

Figure 118 – Actions with the **Trend Graph Report**

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5.8.1.2. Strategic Risk Dashboard

This dashboard provides a 2-dimensional, high-level view of risks and their pre, current and target qualitative assessment scores.

If there are more than two scenarios, you will see two types of lines between the scenarios. The first line is solid and the second is dotted. This is for visualization purposes only and has no relation to the status of actions etc.

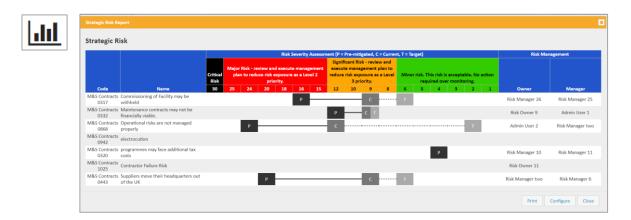


Figure 119 – The Strategic Risk Report button and dashboard

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5.8.1.3. Risk Landscape

This dashboard downloads each projects data such as status, score, budget, risk budget, minimum, most likely and maximum assessment impacts. The report is split into 3 graphs: Risk Values as a precentage of Project Values, Risk Values on top of Project Values and Risk Percentage per project as a percentage of Total Risk.





Figure 120 – The Risk Landscape Report button and dashboard

The **Risk Values as a precentage of Project Values** section shows how much risk each project node is carrying.

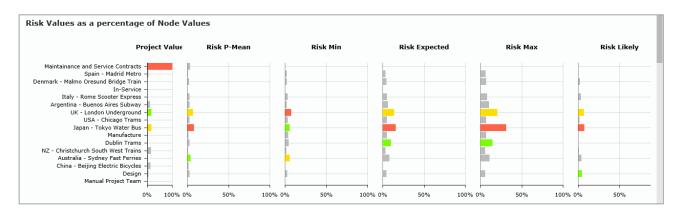


Figure 121 – The Risk Values as a percentage of Node Values section

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In the above example, the top node is **Maintenance and Service Contracts**. The red bar next to the node represents all the node budgets underneath summed together making a total budget of 100%. By resting the mouse on **UK – London Underground** it shows the figure 14.73 which means that **UK - London Underground** has a project budget of 14.75% of the total summed budget across all projects.

The **Risk Min** column shows the amount of risk per project. **The UK – London Underground project** has a project budget of £320,000,000. If all the quantitative current cost minimum values of every risk within this project are summed for every risk the total minimum risk impact is £22,510,000 which is 7.05% of the projects total budget.

The **Risk Values on top of Node Values** section shows you how much cost impact each node is carrying.

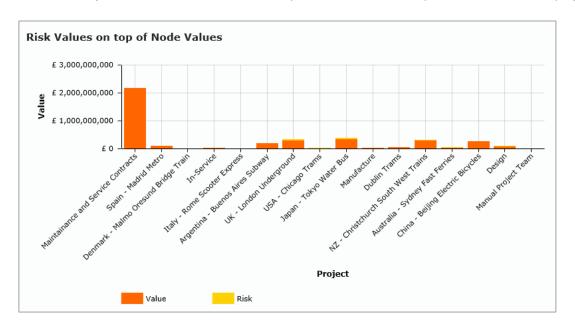


Figure 122 – The Risk Values on top of Node Values section

Each orange column displays the project budget of each node. On top of each column in yellow is indicating the Cost mean (minimum, most likely and maximum cost impacts summed together and then divided by 3) for each risk within that node. If a node does not contain risks, it is not shown on the graph.

The **Risk Percentage per project as a percentage of Total Risk** section shows the total value of risk of all nodes and the percentage of risk each node is carrying. All the quantitative minimum cost impacts across all projects are summed together. Then the amount of summed minimum cost impact within each node is shown as a percentage of all the projects minimum cost impacts.

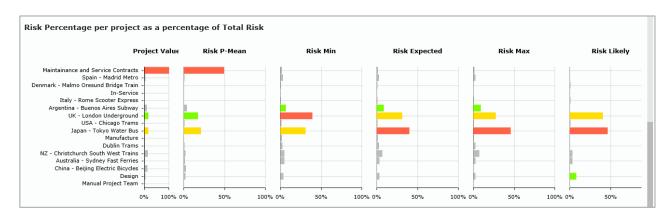


Figure 123 – The Risk Percentage per project as a percentage of Total Risk section

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The **Sort** option enables you to sort the graph by different columns: Project Value, Risk P-Mean Value, Risk Min Value, Risk Expected Value, Risk Max Value, Risk Likely Value, Risk P-Mean Percentage, Risk Min Percentage, Risk Expected Percentage, Risk Max Percentage, Risk Likely Percentage.

Field Where located

Project Value Edit Node Data / Description / Project Budget

Current Probability Edit / Quantitative / Current Scenario / Prob (%)

Minimum, Most Likely and Maximum Edit / Quantitative / Current Scenario / Cost (£) for

cost values Minimum, Most Likely and Maximum

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5.8.1.4. RIC/ROC Performance

The **RIC/ROC Provision** indicates the amount of budget required to cover high level risks (RIC), risks which do not need funding at this time (ROC).

The report includes the options around the Project Value that you can select.

The Project Value list:

Probabilistic Mean Sums all the Probabilistic Mean values of the risks on screen.

Expected Sums all the Expected values of the risks on screen.

Maximum Sums all the Maximum values of the risks on screen.

Minimum Sums all the Minimum values of the risks on screen.

Likely (> 50%) Sums all the values of the risks with a Probability of 50% or over on screen.

Risk Allocation Sums up the risk allocations of all risks on screen.

Action Allocation Sums up the **Current Spend** of all actions related to the risks on screen.

Total Allocation Sums the **Risk Allocation** and **Action Allocation** of risks on screen.

No matter what you selected from the **Project Value** list, the top section provides the Pre-mitigated, Current and Target pie charts showing the number of risks which have been identified as **RIC**, **ROC**, **LPHI**, **Void** or **Unassigned**. **RIC** represents Risk Inside Cost. These are risks that have a high Probability and Impact and therefore must have funding put aside. **ROC** represents risks with a lower Probability and Impact and are not deemed to need funding at this moment in time. **LPHI** represents risk with a Low Probability but High Impact. Although funding will not be available in the same way as RIC risks, these risks still need regular monitoring. **Void** means that these risks have been assessed but the impacts have been deemed non-existent. **Unassigned** means these risks have not been assessed yet.

The bottom graph shows each provisional type against the **Probabilistic** Mean (selected from the **Project Value** list).

Again, the risks are categorised into RIC, ROC, LPHI, Void and Unassigned but **Provision Cost** axis shows Premitigated, Current and Target lines representing the aggregated values of the risks.

The **Provision Cost** lines are showing the provision for each category.

For the following example, **Probabilistic Mean** was selected.

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Figure 124 – The RIC/ROC Provision graph

Fields required for this report	Where to locate the fields
Qualitative Current Probability impact	Edit / Qualitative / Current Scenario
Qualitative Current Cost impact (Minimum, Most Likely and Maximum)	Edit / Qualitative / Current Scenario
Risk Allocation	Edit / Allocation / Manual
Action Cost	Edit / Treatment / Edit / Current Spend

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5.8.1.5. Exposure Profile

This dashboard shows the financial impact of risks or budget allocations over a period of time (past or future).



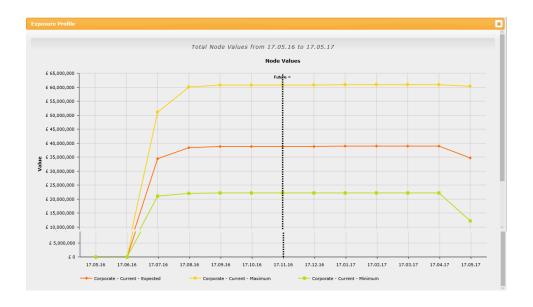


Figure 125 – The **Exposure Profile** button and report

Before the chart can be created, the system asks a few initial questions:

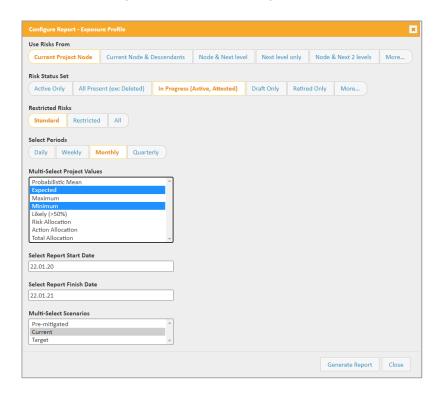


Figure 126 – The Exposure Profile button and report

The **Use Risks From** section enables you to identify which risks will be used in the report. The **Grid Filter** option relates to the risks currently showing on the main screen. Other options include the risks within the current or subsidiary nodes.

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The **Risk Status Set** relates to the status of risks you want to report on.

The **Restricted Risks** is only visible if you have 'restricted' access and will report on restricted risks if selected.

The **Select Graph Periods** relates to how you would like the graph to display change over a period of time i.e., weekly, monthly, quarterly.

The **Multi Select Project Values** list will be used to generate the graph. You can select many options (by holding down the **Shift** key on your keyboard) e.g., showing the minimum, most likely or maximum cost levels over a period of time.

The **Select Report Start Date** and **Select Report Finish Date** both indicate the time period you would like to see in the report.

The **Multi-Selected Scenario** section is asking if you wish the report to show the pre-mitigated, current or target state of the risks.

Fields required for this report	Where to locate the fields
Risk Start Date	Edit / Position & Timeline / Start Date
Risk Finish Date	Edit / Position & Timeline / End Date
Quantitative Pre-Mitigated Probability	Edit / Quantitative / Pre-Mitigated / Prob (%)
Quantitative Current Probability	Edit / Quantitative / Current / Prob (%)
Quantitative Post-Mitigated Probability	Edit / Quantitative / Target / Prob (%)
Quantitative Pre-Mitigated Cost assessment impacts	Edit / Quantitative / Pre-Mitigated / Cost (£) / Minimum, Most Likely and Maximum
Quantitative Current Cost assessment impacts	Edit / Quantitative / Current / Cost (£) / Minimum, Most Likely and Maximum
Quantitative Post-Mitigated Cost assessment impacts	Edit / Quantitative / Target / Cost (£) / Minimum, Most Likely and Maximum
Risk Allocation Start Date	Edit / Allocation / Allocation Available
Risk Allocation Finish Date	Edit / Allocation / Allocation Expires
Risk Allocation	Edit / Allocation / Manual
Action Allocation	Edit / Treatment / Select an Action / Edit / Current Spend

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5.8.1.6. Project Value/Exposure

This report shows the amount of risk each project is managing.



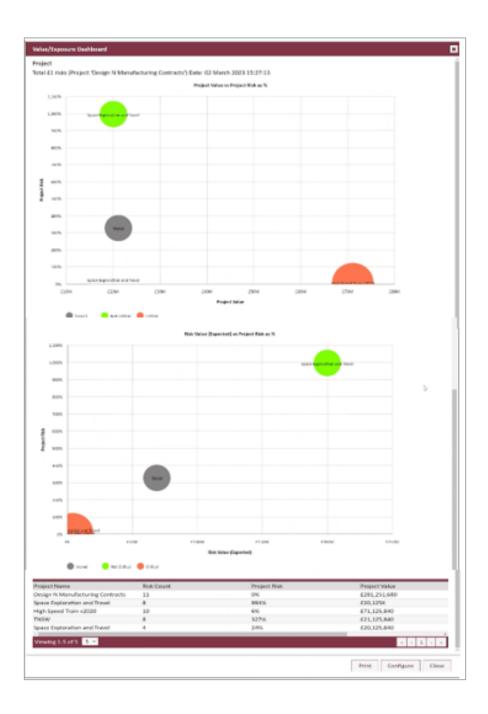


Figure 127 – The Value/Exposure button and report

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The report contains 3 sections:

Project Value vs Project Risk as %Shows the project budget, how many risks the project

contains and the percentage of risk (using the Quantitative Current Cost Most Likely impact divided by the project

budget).

Risk Value vs Project Risk as % Shows the risk budget, how many risks the project has and the

percentage of risk (using the Current Cost Most Likely impact

divided by the project budget).

Risk Value Project Risk shows how much percentage of risk each project

carries.

Project Value is the Project Budget.

Risk Value shows the summed current cost impacts of the risk

within each project.

If you rest your mouse cursor on any of the circles, a short summary will appear.

If a project has less than 5% risk, it will not show on the graph. If a project has more than 5% risk but very few risks, the graph will show the name of the project without a circle.

If a project is critical to the business, it will be displayed as a red circle. If a project is not critically, it will be displayed as a green circle. If the rating assessment has not been conducted on a project, the circle will be grey. Note: The colours are configurable however the legend will provide the appropriate indicators.

The size of the circle relates to the number of risks within a project. The projects with the highest number of risks (in comparison with the other projects on the graph) will attain large circles and the projects with relatively low number of risks will have the smaller circles.

Fields required for this report Where to locate the fields

Project Value for each project Edit Node Data / Description

Risk Budget for each project Edit Node Data / Description

Project Rating (is the project critical or not to the Edit Node Data / Assessment / Rating

business)

Quantitative Current Cost Most Likely impact for each risk Edit, Quantitative

within the project

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5.8.1.7. Risk Radar Gantt

This dashboard shows the timeline of active risks and their actions, along with the allocation start and expiry dates.

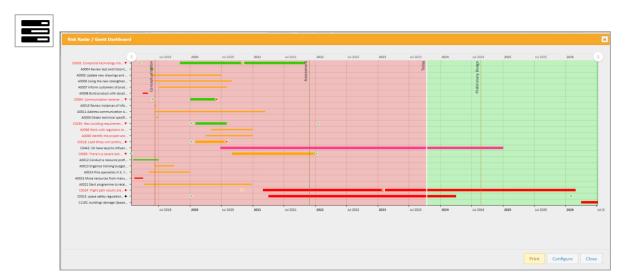


Figure 128 – The Risk Gantt Chart button and report

The panel has red and green background colours. Any risks within the red shaded area are historical (I.e., prior to today's date). Any risks and actions within the green shaded area are future items.

The left-hand column shows the risks as the left margin and their relative actions indented.

Risks in black text do not have any actions. Risks in red text have actions.

Actions which are black indicate the action start date is before the risk start date. Actions in red mean the start date of the action is on/after the start date of the risk.

In the middle of the screen are the risks and actions durations represented by bars.

The colour of the risk bars indicates the qualitative cost impact shown on the Heatmap for each risk (e.g., if a risk has a Heatmap score of 16, it will display as a red bar). A grey risk bar means the qualitative assessment has not been conducted yet.

Actions are also colour coded and the various colours are based on the **Implemented** and **Effectiveness** of the actions.

Green bar If an action is 100% complete and considered fully **Effective**.

Amber bar The action is considered still in progress unless it is 100% complete

(even if the Effectiveness is 100%).

Red Bar If an action is 100% implemented but not fully effective.

At either end of a bar there should be a triangle which represents the allocation **Start** and **Expiry** dates which are also colour coded.

Green Start symbol No actions start before the allocation **Start Date**.

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Amber Start symbol Either there are no actions, or 1 or more actions start before the

allocation Start Date.

Red Start symbol The **Allocation Start Date** (**Allocation Available**) does not commence

until after an action finishes.

Green Finish symbol The risk and actions finish before the **Expiry Date**.

Amber Finish symbol Allocation expires before the risks **Finish Date**.

Red Finish symbol Allocation expires before the actions **Finish Date**.

The start and finish times of each risk and action is displayed. The vertical black line represents today.

At the top of the graph is a slider bar, which enables you to zoom in and out. This allows your data to be displayed in years or months as appropriate.

You can edit the data direct from this dashboard. For example, by clicking on the coloured bar allows you to edit the start and end date of the risk. By clicking on the arrows, this enables you to edit the start or end of the risk allocation.

Fields required for this report	Where to locate the fields
Risk Name	Edit / Definition / Name
Action Description	Edit / Treatment / Action Description
Quantitative Proximity of each risk	Edit / Position & Timeline / Start Date
Risk End Date	Edit / Position & Timeline / End Date
Duration of each action	Edit / Treatment / Select an Action / Edit / Start Date (Baseline) and Finish Date (Baseline)
Allocation	Edit / Allocation / Manual
Allocation availability	Edit / Allocation / Allocation Available and Allocation Expires
Action Start Date	Edit / Treatment / Edit / Start Date (Baseline or Forecast)
Action End Date	Edit / Treatment / Edit / Finish Date (Baseline or Forecast)

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5.8.1.8. Radial Risks - General

Each radial graph reviews risks from 2 different views:

The **Radial Risk Proximity** shows the various levels of proximity and then by option selected from the **Segment** list.

The **Radial by Qualitative Probability** shows the qualitative probability of the risks and then the segments you choose from the **Segments List**.

The **Radial by Quantitative Probability** shows quantitative probability of the risks and then the segments you choose from the **Segments List**.

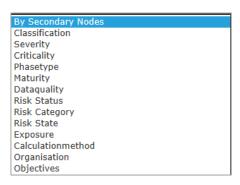


Figure 129 – The **Segment** List

The options you can choose from are:

By Secondary Nodes The key nodes within the portfolio (secondary level nodes underneath the very

top node).

Classification The bullseye segments are the different classifications of the risks.

Severity The bullseye segments are the different levels of impact on the project.

Criticality Obsolete option. Please do not use.

Phase type The bullseye segments show risks in different phases.

Maturity The bullseye segments show the various maturity levels of the risks.

Data Quality The bullseye segments show the quality of information the risks are based upon.

Risk Status The risks status.

Risk Category The category a risk may impact.

Risk State The status of each risk.

Exposure How often will the company be exposed to a risk?

Calculation method How the qualitative assessment be used.

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Organisation The organisation with overall responsibility for the risk.

Objectives Objectives which could be impacted by a risk. This will be updated later to show

the objective names relating to each segment.

You can further refine the data by Restricted Risks, Scenario, and Impact.

The colours of the dots are the colour of the risk from the heatmap, for the selected impact. Clicking on any of the dots enables you to edit that specific risk.

The information table below the graphic will provide either the worst impact where All impacts have been selected or the specific impact where a singular impact has been selected. The risk ID, Summary/Title and Proximity will also be listed. A start and end date must have been captured for the calculated proximity to be displayed.

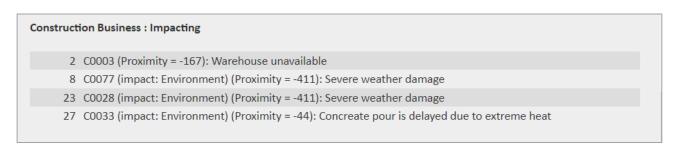


Figure 130 – The Radial Graphics Information Table

5.8.1.9. Radial Risk – Proximity

The **Radial by Proximity** graph will always show the various levels of proximity as the red, orange, and green circles and your selection from the **Segment List** as segments within the bullseye.

For example, if you choose **Classification** the following graph will appear:



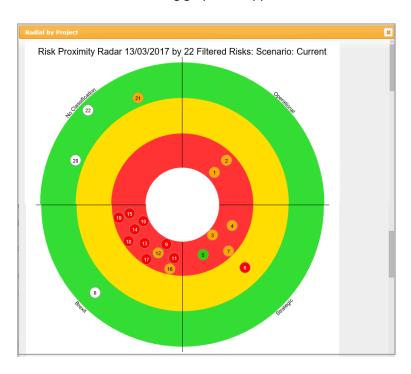


Figure 131 – The Radial by Proximity with Classification segments

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5.8.1.10. Radial Risk Qualitative Probability

The **Radial by Qualitative Probability** is very similar to the Radial Risk by proximity dashboard. This time the bullseye circles are split by the qualitative probability of the risks and then the segments you choose from the **Segments List**. Here is an example:



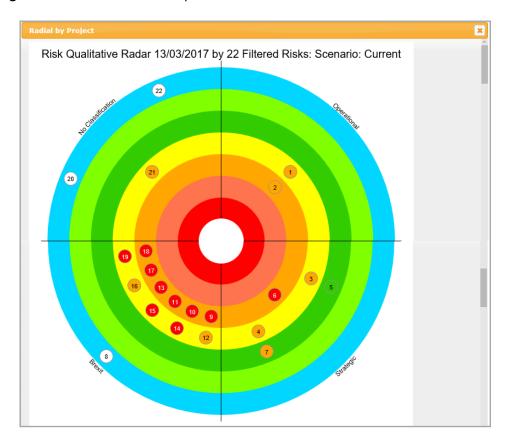


Figure 132 – The Radial by Qualitative Probability with Classification segments

In the above graph, the inner circles represent each risk qualitative probability:

Zone 1: 6 Certainty (C)

Zone 2: 5 Very High (Very High - Over 70%)

Zone 3: 4 High (High - Between 56%-69%)

Zone 4: 3 Medium (Medium - Between 31%-55%)

Zone 5: 2 Low (Low - Between 11%-30%)

Zone 6: 1 Negligible (Negligible - Below 10%)

Zone 7: 0 Zero (is zero, will not happen)

The segments represent the classifications.

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5.8.1.11. Radial by Quantitative Probability

The **Radial by Quantitative Probability** is very similar to the previous dashboards. The bullseye circles are split by the quantitative probability of the risks and then the segments you choose from the **Segments List**. Here is an example:



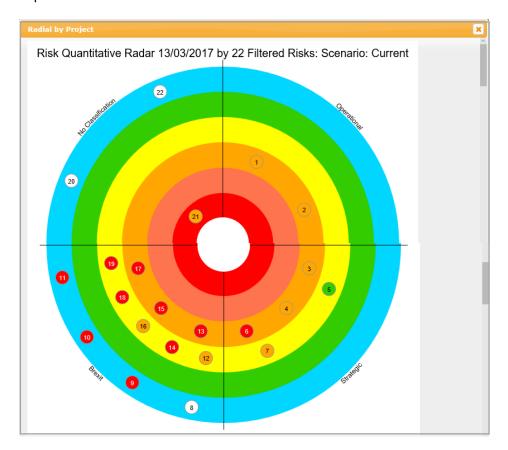


Figure 133 – The Radial by Quantitative Probability with Classification segments

In the above dashboard, the inner circles represent each risk's quantitative probability:

Zone 1: >80% to 100% Zone 2: >60% to 80% Zone 3: >40% to 60% Zone 4: >20% to 40% Zone 5: >0% to 20% Zone 6: 0 / Not scored

The segments represent the classifications.

The object colours relate the Heatmap colour of the risks. White objects mean the risk has not been assigned the search information. Diamond shaped risks indicate more risks to view.

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Fields required for this dashboard Where to locate the fields

Probability Edit / Quantitative / Quantitative Current

Probability

A risks quantitative proximity Edit / Position & Timeline / Start Date

A risks classification Edit / Classifications / Classification

Risks severity Edit / Qualitative / Treat Level

Project Phases Edit Node Data / Phases

and

Edit / Position & Timeline / Phase Type

Risks maturity Edit / Review Record / Maturity

The quality of the information the risk is based on Edit / Review Record / Quality

Risks status Edit / Review Record / Status

Risk state Edit / Review Record / State

Risks exposure level Edit / Qualitative / Exposure

Risk calculation method Edit / Qualitative / Type

Owning Organisation Edit / Responsibility / Owning Org

Objectives Edit / Linked Objectives

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5.8.1.12. Radial Project

This dashboard uses a bullseye chart to show the critical and non-critical projects within a node.





Figure 134 – The Radial by Project button and report

In the example above, Corporate is the parent node which has 5 child nodes (i.e., Brexit, Design and Manufacturing Contracts, Maintenance and Service Contracts, Research Blue Sky Travel and Specialist Functions). Each of the child nodes has a segment of the bullseye. Within each segment shows further child nodes. In the example above the Brexit segment shows number 63, 35 and 64. 63 represents a child node of Brexit that has been assessed as critical to the business. 35 represents a child node that is not considered critical to the business and 64 is a child node of Brexit which has not been assessed. The inner red circle relates to projects which are considered critical, the middle green circle represents projects which are not considered critical, and the outer grey circle means these projects have not yet been assessed.

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Each child project is represented by a circle or a star. The circle represents projects, and the star represents programmes.

If a project is represented by a red object, the project has been assessed as having critical weaknesses. An orange object represents serious weaknesses, a yellow object represents minor weaknesses, and a green object means the project is considered on target.

Fields required for this dashboard	Where to locate the fields
Project Rating (is the project critical or not to the business)	Edit Node Data / Assessment / Rating
Project Score	Edit Node Data / Assessment / Score
Project Type	Edit Node Data / Assessment / Node Type

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5.8.1.13. Management Summary

This report displays the number of risks by Status, Level and Categories together with the probabilistic mean.

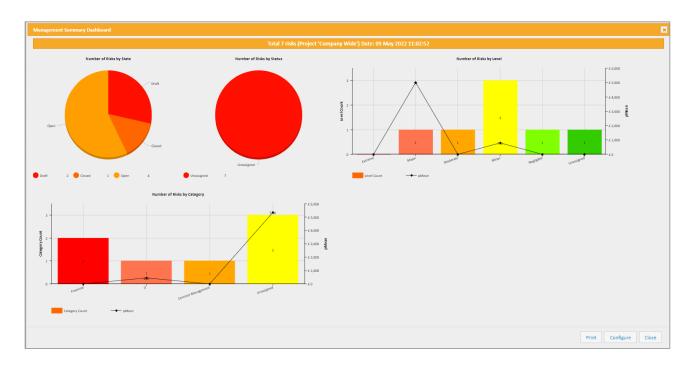


Figure 135 – The Management Summary dashboard

Fields required for this dashboard	Where to locate the fields	
Risk Status	Edit / Review Record / Status	
Project Score	Edit Node Data / Assessment / Score	
Quantitative Current Cost assessment impacts for each risk	Edit / Quantitative / Current / Cost (£) / Minimum, Most Likely and Maximum	
Qualitative Current Cost assessment impact for each risk	Edit / Qualitative / Current / Cost	
Category that could be impacted by a risk	Edit / Classifications / Category	

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5.8.1.14. Management Summary(Historical)

This report displays the same information as the Management Summary Report, however, for this report you can select a Report Start Date which will provide you a dashboard of the risk information for that date.

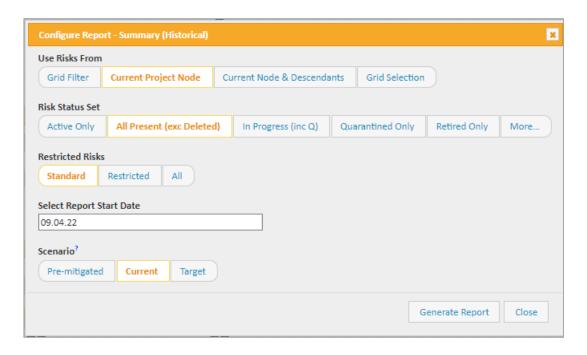


Figure 136 – The Management Summary Historical Configuration panel

Fields required for this dashboard	Where to locate the fields
Risk Status	Edit / Review Record / Status
Project Score	Edit Node Data / Assessment / Score
Quantitative Current Cost assessment impacts for each risk	Edit / Quantitative / Current / Cost (£) / Minimum, Most Likely and Maximum
Qualitative Current Cost assessment impact for each risk	Edit / Qualitative / Current / Cost
Category that could be impacted by a risk	Edit / Classifications / Category

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5.8.1.15. Project Risk Summary

As the name suggests, this dashboard provides an overview of the risks against the project value of the node and subsidiary nodes. It gives several graphics showing the risk impacts and categories plus list of the top financial (by probabilistic mean) and risks with closest quantitative proximity. Finally, it breaks down this risk into each categorisation and list the top N according to probabilistic mean.

The report works with the current risks but can be asked to provide output at a given date.

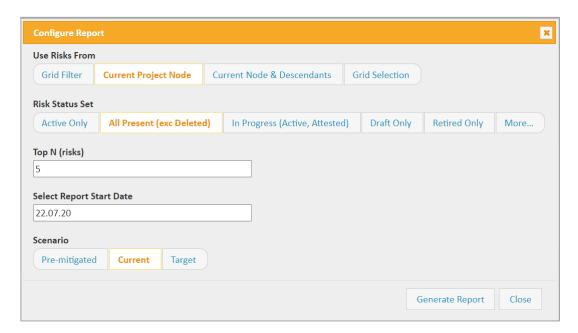


Figure 137 – The Project Risk Summary configuration panel

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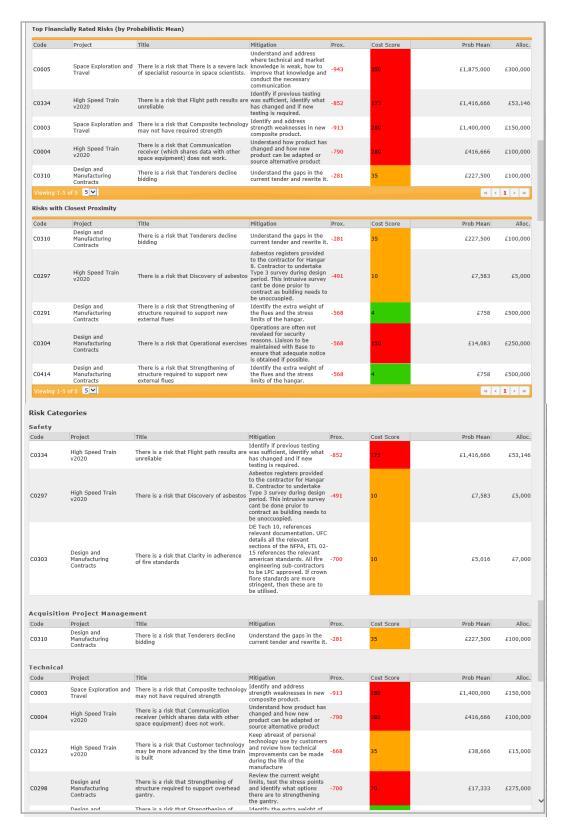


Figure 138 – The **Project Summary** button and report

The top section provides information about the project such as who the manager is, how many risks the project holds, the project value, the risk contingency budget and how much of the risk budget has been allocated so far.

The Risks against Aggregate Project Value section is showing:

Min' Risk (%)	This is the current minimum 3-point estimate of every risk within the project and subsidiary projects summed together.
Exp' Risk (%)	This is the current most likely 3-point estimate of every risk within the project and subsidiary projects summed together.
Max' Risk (%)	This is the current maximum 3-point estimate of every risk within the project and subsidiary projects summed together.
Likely (%)	This is the PMean of every risk within the project which has a probability of 50 or higher.

Prob' Mean (%)

This is the minimum, most likely and maximum 3-point estimates summed together and divided by 3 for each risk and then the result of each risk summed together for the project and any subsidiary projects.

The Risks against Project Value section shows the following:

Min' Risk (%)	This is the current minimum 3-point estimate of every risk within the project summed together.
Exp' Risk (%)	This is the current most likely 3-point estimate of every risk within the project summed together.
Max' Risk (%)	This is the current maximum 3-point estimate of every risk within the project summed together.
Likely (%)	This is the PMean of every risk within the project which has a probability of 50 or higher.
Prob' Mean (%)	This is the minimum, most likely and maximum 3-point estimates summed together and divided by 3 for each risk and then the result of each risk summed together.

The **Number of Risks by State** graph is showing in percentages the number of risks by **System State**. System states are generally Quarantined , Active and Closed (retired).

The **Number of Risks by Status** graph is showing in percentages the number of risks by **Risk Status**. The values are generally client specific and may be subsets of the system state Active.

The **Number of Risks by Level** graph is displaying risks against the qualitative assessment level e.g., 7 risks have been qualitatively assessed as having a **High** cost impact. This graph also shows a black line which is the summative probability mean of the risks within the high-cost impact assessment column.

The **Number of Risks by Category** graph is displaying the number of **Categories** and the black line represents the summed probability mean of the risks within each category.

The Top Financially Rated Risks (by Probabilistic Mean) section is showing the risks with the highest Current Probability Mean. The Current Probability Mean column is sorted.

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The **Risks with Closest Proximity** graph is displaying the risks with the closest quantitative proximity to today. This means the system reviews the current date against **Start Date** of the risk. The **Proximity** column is sorted.

Fields required for this report	Where to locate the fields
Project Manager	Edit Node Data / People / Risk Manager
Project Sponsor	Edit Node Data / People / Project Sponsor
Dataset used for this project	Only administrators will have this option:
	Edit Node Data / Formats & Settings / Dataset
Project Value for every project	Edit Node Data / Description / Node budget
Risk Contingency for every project	Edit Node Data / Description /Node Risk Budget (Contingency)
Quantitative Current Probability	Edit / Quantitative / Current / Prob (%)
Quantitative Current Cost assessment impacts for each risk	Edit / Quantitative / Current / Cost (£) / Minimum, Most Likely and Maximum
Risk Status	Edit / Review Record / Status
Qualitative Current Probability	Edit / Qualitative / Current / Prob
Qualitative Current Cost assessment impact for each risk	Edit / Qualitative / Current / Cost
Category that could be impacted by a risk	Edit / Classifications / Category
Risk Title	Edit / Definition / Name
Mitigation	Edit / Treatment / Primary Treatment
Quantitative Proximity	Edit / Position & Timeline / Start Date
Allocation	Edit / Allocation / Manual

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5.8.1.16. Category Summary

This dashboard shows you the number of risks by Category together with the probabilistic mean details of the risks which you have selected on the main screen.

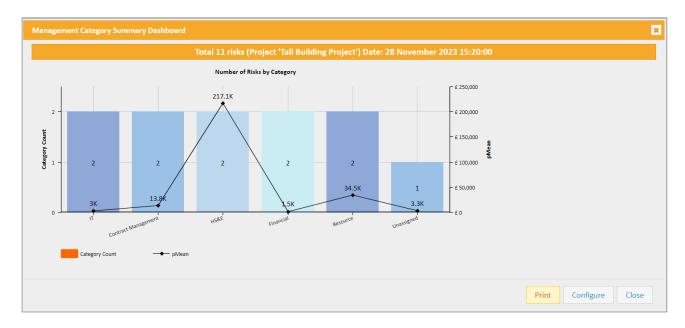


Figure 139 – The Category Summary panel

Fields required for this dashboard	Where to locate the fields	
Quantitative Current Cost assessment impacts for each risk	Edit / Quantitative / Current / Cost (£) / Minimum, Most Likely and Maximum	
Category that could be impacted by a risk	Edit / Classifications / Category	

Note: By clicking on the Pmean key you can remove the line graph information.

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5.8.1.17. Single Risk Summary

This dashboard shows you the details of a risk which you have selected on the main screen.

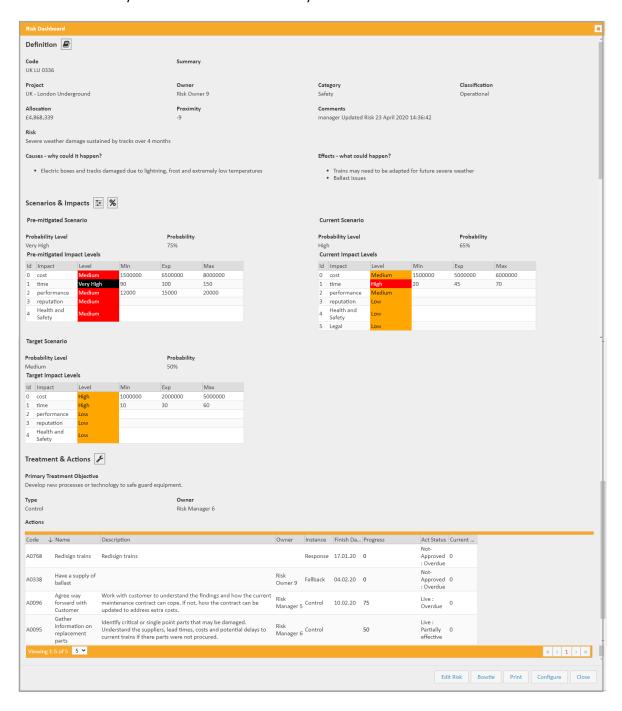


Figure 140 – The Selected Risk panel

The **Selected Risk** dashboards provides an editable overview of the risk's general description, quantitative assessment, mitigation plan and actions. This is the same as the **Risk Dashboard**.

Fields required for this report Where to locate the fields

Risk Summary Edit / Definition / Summary

Project Edit / Position & Timeline / Project Node

Risk Owner Edit / Position & Timeline / Owner

Category Edit / Position & Timeline / Classifications /

Category

Classification Edit / Position & Timeline / Classifications /

Classification

Allocation Edit / Allocation / Manual

Quantitative Proximity Edit / Position & Timeline / Start Date

Comments Edit / Commentary

Risk Title Edit / Definition / Name

Cause Edit / Definition / Cause

Effect Edit / Definition / Effect

Quantitative Pre-mitigated Probability Edit / Quantitative / Pre-mitigated / Prob (%)

Quantitative Pre-mitigated Cost assessment Edit / Quantitative / Pre-mitigated / Cost (£)

Quantitative Current Probability Edit / Quantitative / Current / Prob (%)

Quantitative Current Cost assessment Edit / Quantitative / Current / Cost (£) / Minimum,

Most Likely and Maximum

Quantitative Target Probability Edit / Quantitative / Target / Prob (%)

Quantitative Target Cost assessment Edit / Quantitative / Pre-mitigated / Cost (£) /

Minimum, Most Likely and Maximum

Mitigation Edit / Treatment / Primary Treatment Objective

Type Edit / Treatment / Primary Treatment Type

Owner Edit / Treatment / Owner

Action Name Edit / Treatment / Edit / Title

Action Description Edit / Treatment / Edit / Description

Action Owner Edit / Treatment / Edit / Owner

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Instance Edit / Treatment / Edit / Action Type

Finish Date Edit / Treatment / Edit / Finish Date

(Baseline) or Finish Date (Forecast)

Progress Edit / Treatment / Edit / Implemented

Action Status Edit / Treatment / Edit / Effectiveness

Current Spend Edit / Treatment / Edit / Current Spend (£)

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5.8.1.18. Top 'n' Risks

This dashboard is designed to show the most cost impacting or proximity impacting risks across a single node, or the portfolio and you dictate whether you want the top 5, 10 or whatever number.





Figure 141 – The Top 'n' Items report

When running this report, you are able to select either a specific impact or all impacts.

N.B the list of impacts shown in the figure below may be different as these are configurable.

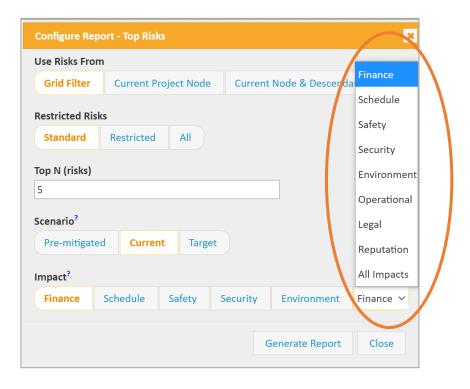


Figure 142 – Selection of Impacts

The selection of **All Impacts** will provide you with the **Worst Score**.

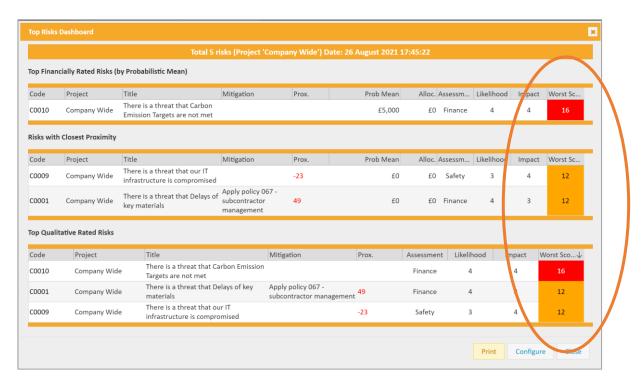


Figure 143 – The **Top 'n' Items** report – Worst Score

The dashboard shows 3 sections.

Top Financially Rated Risks (by Probabilistic Mean): This section shows the risks with the highest Current Probability Mean.

Risks with Closest Proximity: This section shows the risks with the closest quantitative proximity to today. This means the system reviews the current date against **Start Date** of the risk.

Top Qualitative Rated Risks: This section shows the risks with the highest Current Qualitative Cost impact.

The **Cost Score** column relates to the Heatmap score generated by the risk.

The **Probability Mean** column shows the PMean of each risk. A PMean is the quantitative current cost scores (minimum, most likely and maximum values summed together) multiplied by its probability.

The **Allocation** column shows how much money has been manually requested for each risk.

Fields required for this report	Where to locate the fields
Quantitative Current Probability	Edit / Quantitative / Current / Prob (%)
Quantitative Current Cost assessment impacts for each risk	Edit / Quantitative / Current / Cost (£) / Minimum, Most Likely and Maximum
Qualitative Current Probability	Edit / Qualitative / Current / Prob
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Risk Title Edit / Definition / Name

Mitigation Edit / Treatment / Primary Treatment

Quantitative Proximity Edit / Position & Timeline / Start Date

Allocation Edit / Allocation / Manual

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5.8.1.19. Risk on a page

This report (configurable) displays each risk on a single page – for reporting purposes when printing.

The options are Grid Filter / Current Project Node / Current Node and Descendants / Grid Section.

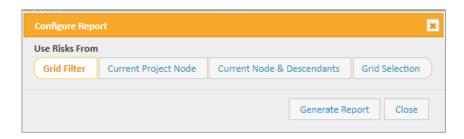


Figure 144 – The Risk on a page configuration panel

You can review the information prior to printing. The information on the screen will contain all the fields as determined by your Administrator.

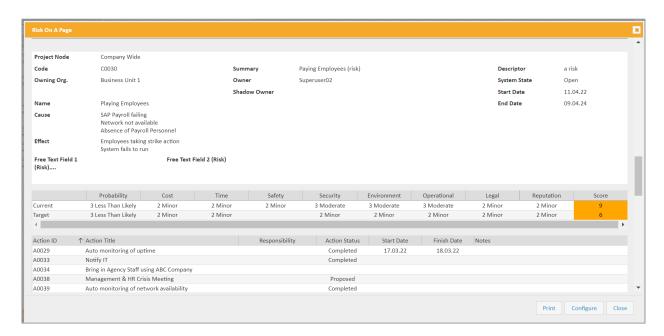


Figure 145 – The Risk on a page review panel

Post your review, select Print and the information will be printed in A4 Landscape.

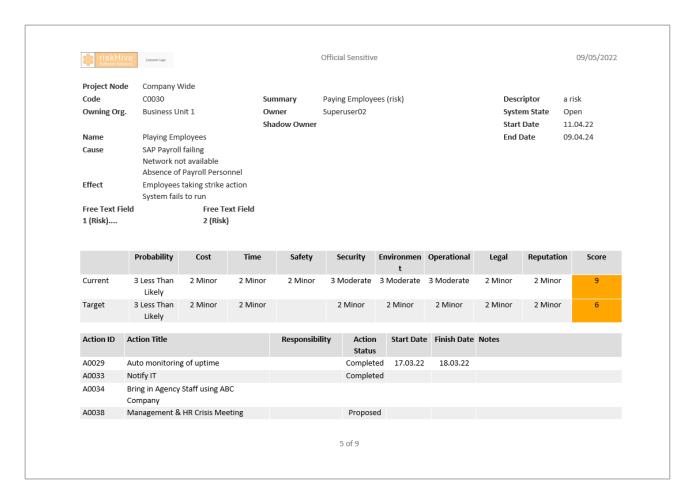


Figure 146 – The Risk on a page print example

Where to locate the fields

•	
Project Node	Edit / Position & Timeline / Project Node
Risk Code	Risk ID
Owning Org	Edit / Responsibility / Owning Org
Owner	Edit / Responsibility / Owner
Descriptor	Edit / Definition / Descriptor
Risk Summary	Edit / Definition / Summary
System State	Edit / Audit & Review / System State
Shadow Owner	Edit / Responsibility / Shadow Owner
Start Date	Edit / Position & Timeline / Start Date
End Date	Edit / Position & Timeline / Start Date
Risk Name	Edit / Definition / Name

Fields available for this report

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Cause Edit / Definition / Cause

Effect Edit / Definition / Effect

Custom Free Text Fields Edit / Custom Fields

Custom Drop Lists Edit / Custom Fields

Impact / Probability Edit / Assessment Panel (Qual, Quant, and/or Hybrid)

Scenario Edit / Assessment Panel (Qual, Quant, and/or Hybrid)

CWS (Corporate Worst Score) Edit / Qualitative / Current / Prob

Edit / Qualitative / Current / Other impacts

PWS (Project Worst Score) Edit / Qualitative / Current / Prob

Edit / Qualitative / Current / Other impacts

Action ID Action ID

Action Title Edit / Action / Title

Action Responsibility Edit / Action / Owner

Action Status Edit / Action / Status

Action Start Date Edit / Action / Start Date (Forecast)

Action End Date Edit / Action / End Date (Forecast)

Action Notes Edit / Action / Commentary / Outcome

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5.8.1.20. Risk Profile

Fields required for this report

The **Risk Profile** report shows fields the count of the risk by category, together with the probabilistic mean. The data tables includes the risk code, project name, risk title, mitigation plan, proximity, probability mean, allocation, qualitative likelihood, qualitative Cost impact score and Qualitative total score (Cost).



Figure 147 – The Risk Profile Dashboard

Where to locate the fields

·	
Project Node	Edit / Position & Timeline / Project Node
Risk Code	Risk ID
Manager	Edit / Responsibility / Manager
Sponsor	Edit Node Data / People
Data Set	Edit Node Data / Formats & Settings / Data Set
Project Budget (at node) / (summed)	Edit Node Data / Project Budget
Risk Reference (at node / (summed)	Edit Node Data / Risk Reference
Risk Budget (at node / (summed)	Edit Node Data / Risk Budget
Allocated Risk Budget	Edit / Allocation / Manual
Unallocated Risk Budget	Edit / Allocation / Manual

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Category Edit / Classification /Category

Risk Code Risk ID

Project Edit / Position & Timeline / Project Node

Title Edit / Definition / Name

Mitigation Edit / Treatment / Primary Treatment Objective

Proximity Edit / Proximity & Timeline / Start and End Date

Prob Mean Edit / Quantitative / Probability / Cost Impact

Allocation Edit / Assessment Panel (Qual, Quant, and/or Hybrid)

Likelihood Edit / Qualitative / Prob

Cost Edit / Qualitative / Cost Impact

impacts

Score Qualitative Worst Score (Cost)

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5.8.1.21. Risk Data Complete

The **Risk Data Complete** report shows fields which are completed within the range of risks on your main screen.

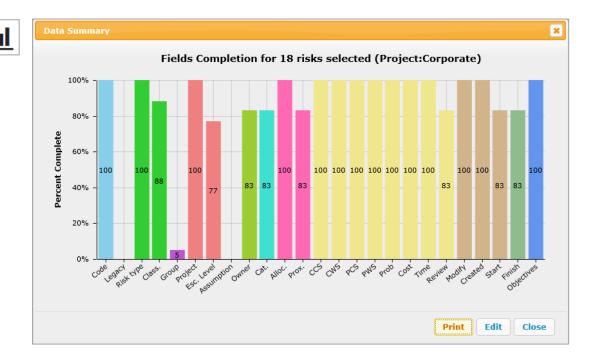


Figure 148 – The Risk Data Complete report

For example, the above dashboard is showing that from 18 risks on screen the **Legacy** and **Assumption** fields have not been completed for any of the risks, whereas **Class** has been completed for 88% of the risks.

Note: The administrator can change the fields so that you can review specific fields. For the above example, the fields below are required.

Fields required for this report	Where to locate the fields
Legacy	Edit / Position & Timeline / Legacy Code
Risk Type	Edit / Definition / Descriptor
Classification	Edit / Classifications / Classification
Group	Edit / Group Membership
Escalation Level	Edit / Escalation
Assumption	Change View: Grid Controls / Grid Settings / Display (change to Assumptions)
	In Assumptions: Select Assumption / Edit / Definition / Linked Risk
Risk Owner	Edit / Responsibility / Owner
Category	Edit / Classifications / Category

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Risk Allocation Edit / Allocation / Manual

Proximity Edit / Position & Timeline / Start Date

CCS (Corporate Cost Score) Edit / Qualitative / Current / Prob

Edit / Qualitative / Current / Cost

CWS (Corporate Worst Score) Edit / Qualitative / Current / Prob

Edit / Qualitative / Current / Other impacts

PCS (Project Cost Score) Edit / Qualitative / Current / Prob

Edit / Qualitative / Current / Cost

PWS (Produce Worst Score) Edit / Qualitative / Current / Prob

Edit / Qualitative / Current / Other impacts

Probability Edit / Quantitative / Current / Probability

Cost Edit / Quantitative / Current / Most Likely / Cost

Time Edit / Quantitative / Current / Most Likely / Time

Review (Last Review Date) Edit / Review Record / Last Review

Start Edit / Position & Timeline / Start Date

Finish Edit / Position & Timeline / End Date

Objectives Edit / Linked Objectives

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5.8.1.22. Risk Data Missing

The Risk Data Missing report displays which major risk data is missing.

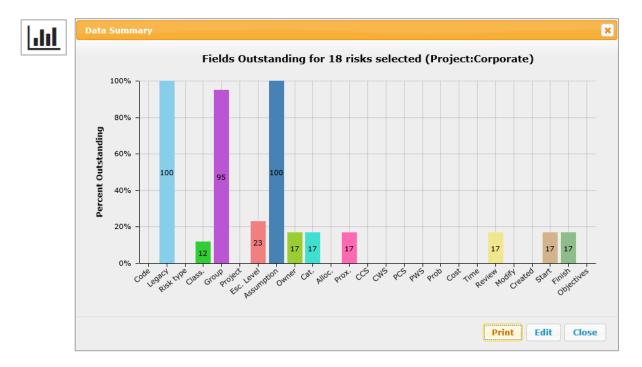


Figure 149 – The Risk Data Missing report

The above report is showing that from 18 risks on screen the **Legacy** and **Assumption** fields are not completed for any of the risks (100% incomplete), whereas 12% of risks have not completed their **Class** field.

Note: The administrator can change the fields so that you can review specific fields. Guidance on how the administrator can make these changes is shown in the Administrator section of the manual.

The fields are the same as the Risk Data Missing report.

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5.8.1.23. Action Performance

This dashboard shows the effectiveness and spend of Actions against the Risks Cost impact.



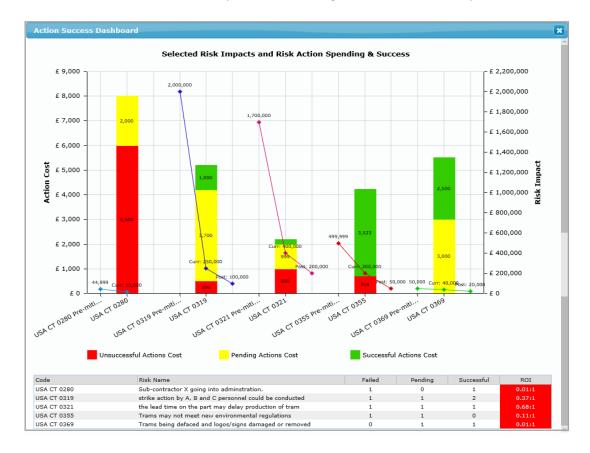


Figure 150 – The Action Success button and report

Each column represents a risk and the successful, pending, or unsuccessful actions within that risk.

Failed actions are actions that have not been considered effective or successful and are displayed as red.

Pending actions are actions which have not yet been 100% implemented or completed and displayed as vellow.

Successful actions are actions that are considered successful and displayed as green.

In the example above, risk USA CT 0319 has a successful action (in green) costing £1000, 2 pending actions (in yellow) costing a combined £3,700 and a failed action (in red) costing £500. A total of £5,200 has been spent on actions.

Along with this column is a line which represents the pre-mitigated, current and target quantitative current cost impacts.

ROI means the Rate of Investment and the tool considers if the amount of money spent on actions has been financially worth it against the risks impact cost.

Underneath the graph will be listed the risks involved in generating the graph.

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Fields required for this report Where to locate the fields

Risk Name Edit / Definition / Name

Action Implemented Edit / Treatment / Select an Action / Edit /

Implemented

Action Success Edit / Treatment / Select an Action / Edit /

Effectiveness

Action Cost Edit / Treatment / Select an Action / Edit /

Current Spend

Action Status Edit / Treatment / Select an Action / Edit /

Status

Quantitative Pre-Mitigated Cost assessment impacts Edit / Quantitative / Pre-Mitigated / Cost (£)

/ Minimum, Most Likely and Maximum

Quantitative Current Cost assessment impacts Edit / Quantitative / Current / Cost (£) /

Minimum, Most Likely and Maximum

Quantitative Post-Mitigated Cost assessment impacts Edit / Quantitative / Target / Cost (£) /

Minimum, Most Likely and Maximum

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5.8.1.24. Project Risk Counts

This dashboard shows the count of risks by several List Types.

This dashboard provides risk information where that information can be 'counted'. For example, the count of risks by Classification, Location, Status Etc. The full list of options is available from the Standard List Type drop-down menu option.

Custom Lists can also be selected. Users will only see custom lists for which they have access.

Outputs can hide or show the risk codes. Examples of the outputs are shown below. Risk Count by Classification



Figure 151 - Project Risk Counts Dashboard

Note: If there is a value in the 'No Value' column this means that there is a record that does not have the metadata provided for the count of record in question. By running the report with the risk codes, you can quickly identify which record requires attention.

Risk Count by Classification, showing the risk codes.



Figure 152 – Project Risk Counts Dashboard showing risk codes

5.8.1.25. Project Appetite Dashboard

This is a dashboard entry point into the individual "Project Current" heatmaps. It shows a summary of risks scored for each impact type. The heat map gives a count of risks at each score. Selecting/Clicking one of the Mini-Heat maps invokes the standard selected Impact heat map.

This would be used if you have different risk appetites for different risk impacts.



Figure 153 – Project Dashboard Summary risk scoring

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5.8.1.26. Scenario Overview

Note: The scenario overview is one of several Heatmap reports.

Each Heatmap provides a scoring overview for a set of risks. The Heatmap configuration and colours are built by administrators along with risk and impact appetite descriptions. This definition is appended as an index to the right-hand side of each Heatmap and varies according to client configuration. A sample configuration is provided below:



Figure 154 – Risk Appetite Index

To reduce clutter the appetite index has not been shown with the Heatmap reports described.

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The Scenario Overview dashboard is a variant on the standard "Project Current" Heatmap. A Heatmap is produced showing how a Risk (or Risks) qualitative scoring differ over each of the configured scenarios.



Figure 155 – The Scenario Overview dashboard

The above dashboard is showing that the Risk 0431 has a "Pre-mitigated" score of 25 with and eventual "Target" of 6.

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5.8.1.27. Global Current

The **Global Current** dashboard uses the Global heatmap (which may be different from project heatmaps) to display all the risks on screen. Typically, you would select the top node and then **Global Current**.

The Heatmap dashboard is based on the qualitative assessment for each risk.

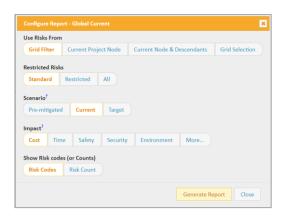


Figure 156 – The Global Current Dashboard - Configuration

The **Restricted Risks** section ask if you wish the report to show either Standard, Restricted or all risks. (This is only used if you are using this functionality). If you are not using this functionality, then ignore this option and accept the default 'Standard'.

The **Scenario** section is asking if you wish the report to show the pre-mitigated, current or target state of the risks.

The **Select Risk Type** is asking if you wish to report on either risks or opportunities – this is only applicable if you have both Risks and Opportunities jointly displayed on your main grid.

The **Impact** section asks which assessment impact you wish the Heatmap to show. This will automatically show a list of all impacts within the qualitative assessment section of the risks.

The **Show Impact Boundaries (zero/not scored)** includes all risks which have either been scored 0 or not scored at all for probability and impact. This option can be switched on or off. A standard Heatmap will probably contain a 5x5 matrix. If this option is turned on, the Heatmap will show additional blue cells:

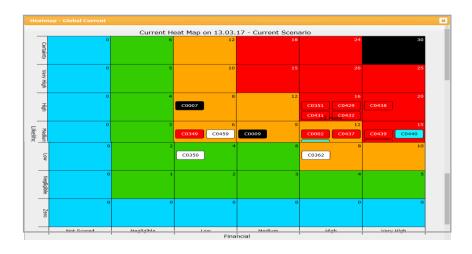


Figure 157 – The standard Heatmap with optional zero or not scored cells

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The **Show Risk codes (or Counts)** section asks if you wish to display the risk codes or the risk count.

When you select **Generate Report** using risk Code a Heatmap will appear (the Heatmap below is not showing the 0 boundaries).

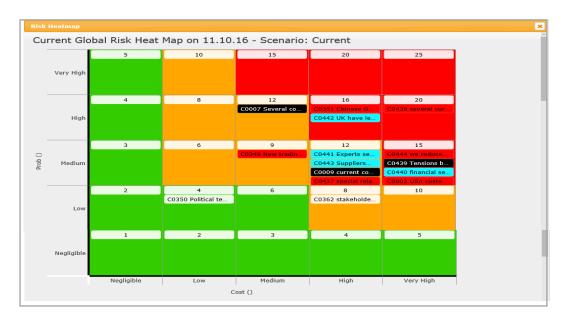


Figure 158 – The Global Current Heatmap

The above example is a 5×5 Heatmap and is separated into 25 numbered sections each indicating a level of probability and cost. The sections can be coloured as above in green, amber, and red to also indicate the various levels.

Each risk will display its risk id and name. Risks with a white background mean they have no additional threat level has been identified. Risks with a blue background mean they have a **noticeable** threat level.

Risks with a red background mean they have a **significant** threat level and finally a risk with a black background means it has a **catastrophic** threat level.

If you select a risk, the **Risk Dashboard** will appear showing the core details of that risk.

Scroll down to view all the risks used to generate the Heatmap.

Code	↑ Class.	Project	Name	Cat.	Worst Sc ↓
USA CT 02	74 Operational	USA - Chicago Trams	Contractor A goes bust	End User and Customer Agreements	3
USA CT 02	80 Operational	USA - Chicago Trams	Sub-contractor X going into adminstration.	Commercial	12
USA CT 03	19 Operational	USA - Chicago Trams	strike action by A, B and C personnel could be conducted	Resource (Funding)	9
USA CT 03	21 Operational	USA - Chicago Trams	the lead time on the part may delay production of tram	Logistics	15
USA CT 03	55 Compliance	USA - Chicago Trams	Trams may not meet new environmental regulations	Environmental	12
USA CT 03	69 Operational	USA - Chicago Trams	Trams being defaced and logos/signs damaged or removed	Security	20
USA CT 03	70 Compliance	USA - Chicago Trams	cleaning product 123 may become toxic in certain weathers as shown on limited tests	Safety	6

Figure 159 – Risks displayed underneath Heatmap

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The qualitative likelihood and cost figures are multiplied to produce the overall Heatmap score for each risk e.g., Likelihood 4×10^{-2} x Cost $5 = 10^{-2}$ Score 20.

 Fields required for this report
 Where to locate the fields

 Name
 Edit / Definition / Name

 Risk Impacts
 Edit / Qualitative / Pre-Mitigated / Prob Edit / Qualitative / Pre-Mitigated / Cost, Time, any Impact Edit / Qualitative / Current / Prob Edit / Qualitative / Current / Cost, Time, any Impact Edit / Qualitative / Target / Prob Edit / Qualitative / Target / Cost, Time, any Impact

 Threat level
 Edit / Qualitative / Threat Level (3D)

 Classification
 Edit / Classifications / Classification

Edit / Classifications / Category

Category

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5.8.1.28. Global Historical

This dashboard is the same as the **Global Current** Heatmap but allows you to dictate which historical date you wish to see the risks.

When selecting this dashboard, the following panel will offer several options, but this time will include **Select Report Start Date**.

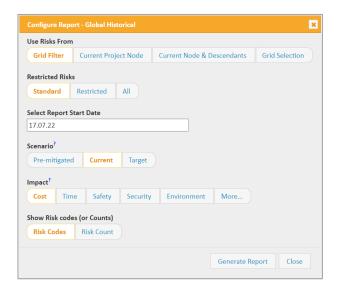


Figure 160 – The Global Historical Heatmap opening panel

Once the options are completed, select **Generate Report** to see the Heatmap:

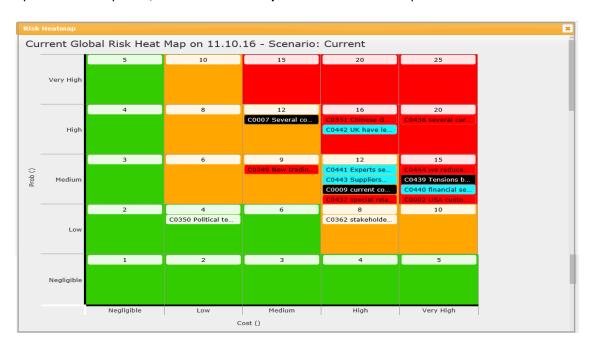


Figure 161 – The Global Current Heatmap on a specific historical date

The list of risks used in the generation of the report are displayed underneath the chart.

The same fields are required as the Global Heatmap.

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5.8.1.29. Global Changed

This dashboard displays only the risks that have changed their score during a certain period.

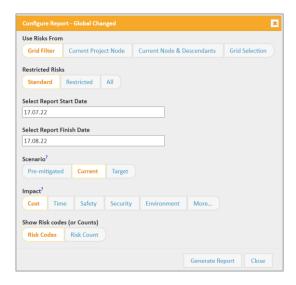


Figure 162 – The **Global Changed** Heatmap opening panel

The opening panel now displays a **Select Report Start Date** and **Select Report Finish Date** to determine the time frame you would like to analyse. Once the options are completed, select **Generate Report**:



Figure 163 – Risks whose scores have changed during a particular time period

Using the global heatmap the report shows only the risks that have schanged their heatmap score during a particular time period of your choice.

As with the other heatmaps, the risks used to generate the report are displayed underneath. However, now displayed as columns is the Current **Score**, Current **Likelihood** and Current **Impact** score (eg Cost) as well as **Previous Score**, **Previous Likelihood** and **Previous Impact** score.

The same fields are required as the **Global Current** Heatmap.

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5.8.1.30. Global Unchanged

This dashboard displays the risks that have not changed their score during a certain period. The same initial panel opens and asks for a time period and other details. The Heatmap report is identical to the **Global Current** and displays the risks used to build the report underneath.

The same fields are required as the **Global Current** Heatmap.

5.8.1.31. Project Current

This dashboard uses the project Heatmap to generate a local Heatmap for the node you are displaying on screen. In all other senses, it is the same as the **Global Current** Heatmap.

The same fields are required as the **Global Current** Heatmap.

5.8.1.32. Project Historical

This dashboard uses the project Heatmap to generate a local Heatmap for the node you are displaying on screen. In all other senses, it is the same as the **Global Historical** Heatmap.

The same fields are required as the **Global Current** Heatmap.

5.8.1.33. Project Changed

This dashboard uses the project Heatmap to generate a local Heatmap for the node you are displaying on screen. In all other senses, it is the same as the **Global Changed** Heatmap.

The same fields are required as the **Global Current** Heatmap.

5.8.1.34. Project Unchanged

This dashboard uses the project Heatmap to generate a local Heatmap for the node you are displaying on screen. In all other senses, it is the same as the **Global Unhanged** Heatmap.

The same fields are required as the **Global Current** Heatmap.

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5.8.1.35. PID (Quantitative)

This dashboard displays quantitative values (options include Mean, Likely, Max) for Cost or Time impacts against their probability.

There are 2 selectable options for the output, either by Velocity or by Proximity.

Velocity conveys the rate at which a risk can impact an organisation. Where Triangle indicates highest velocity, Square = next highest, Circle = other. Icon sizing is according to the heat map score.

Each data point is coloured according to their qualitative values as converted from quantitative assessments. That is their Heat map High, Medium, Low, or corresponding values.

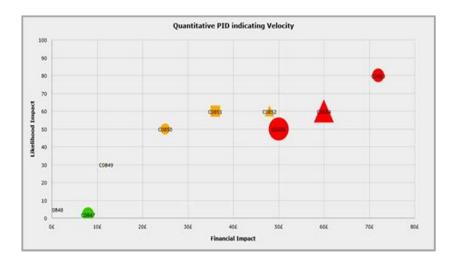


Figure 164 – The PID (Quantitative) report - Velocity

Proximity provides an indication of the closest risks in days. Where Triangular implies Imminent, Square < N days, Circle = other ("Imminent", "< N days" are configurable).

A downward triangle indicates the risk has expired. Icon sizing is also based on the proximity.

Each data point is coloured according to their qualitative values as converted from quantitative assessments. That is their Heat map High, Medium, Low, or equivalent values.

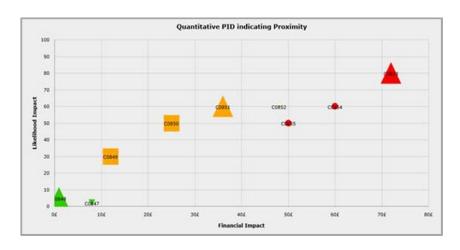


Figure 165 – The PID (Quantitative) report - Proximity

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5.8.1.36. Risks/Opportunities

This dashboard displays the risks owned by yourself or another with the greatest proximity or financial impact.

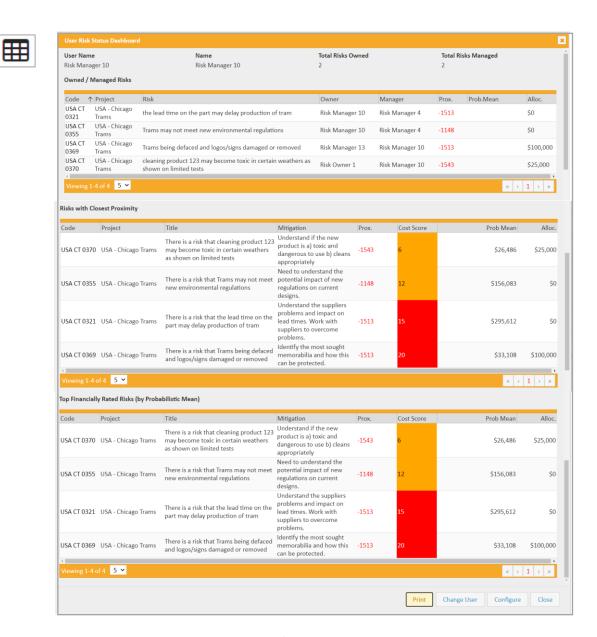


Figure 166 – The Risks/Opportunities button and report

In the above dashboard Helen Mirren manages 14 risks and is the risk owner for 8 risks and a list of the individual risks is shown directly underneath.

The section **Risks with Closest Proximity** uses the quantitative proximity of the Start and Finish date of each risk to indicate when the risks could materialise.

The section **Top Financially Rated Risks (by Probabilistic Mean)** organises Helen's risks into risks with the highest current probability mean.

At the bottom you can view the risks of someone else by selecting **Change User**.

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Note: You will only be able to view the risks from other risk owners within the node(s) you have access to. Although you may be select other people's names, you will not be able to see their risks.

Fields required for this report Where to locate the fields

User Name Administration / People / User ID

Name Administration / People / Name

Risk Name Edit / Definition / Name

Risk Owner Edit / Responsibility / Owner

Risk Manager Edit / Responsibility / Manager

Risk Impacts Edit / Qualitative / Pre-Mitigated / Prob

Edit / Qualitative / Pre-Mitigated / Cost, Time, any Impact

Edit / Qualitative / Current / Prob

Edit / Qualitative / Current / Cost, Time, any Impact

Edit / Qualitative / Target / Prob

Edit / Qualitative / Target / Cost, Time, any Impact

Proximity Edit / Position & Timeline / Start Date

Allocation Edit / Allocation / Manual

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5.8.1.37. Actions

This dashboard shows the actions owned by yourself or another person.

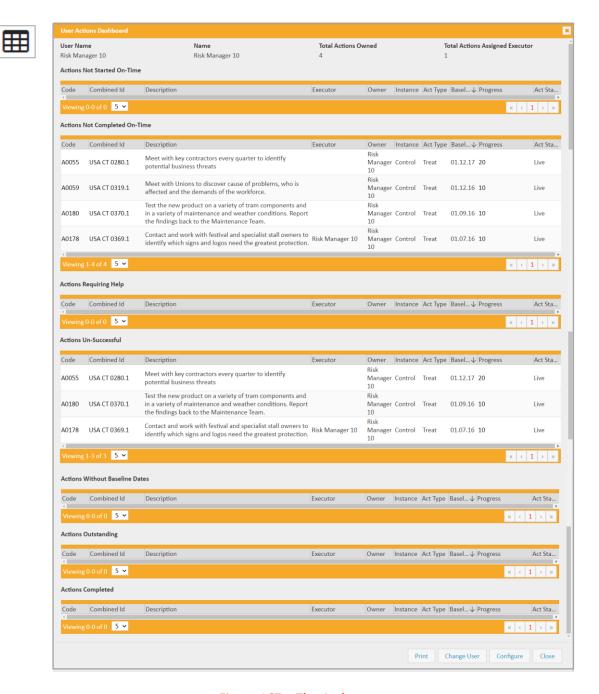


Figure 167 – The **Actions** report

In the example above, Helen is the risk owner for 7 actions. A series of status is displayed underneath.

Select the **Combined Id** reference to edit an action. The panel will remain on screen but the risk containing that action will appear on the main screen behind. Close the panel to edit the risk on the main screen.

<u>Note</u>: You will only be able to view the actions from other action owners within the node(s) you have access to. Although you may be select other people's names, you will not be able to see their actions.

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Fields required for this report Where to locate the fields

User Name Administration / People / User ID

Name Administration / People / Name

Action Description Edit / Treatment / Select an action / Description

Action Owner Edit / Treatment / Select an action / Owner

Action Executor Edit / Treatment / Select an action / Executor

Instance Edit / Treatment / Select an action / Action Type

Action Type Edit / Treatment / Select an action / Action Treatment Type

Baseline Edit / Treatment / Select an action / Finish Date (Baseline)

Progress Edit / Treatment / Select an action / Implemented

Action Status Edit / Treatment / Select an action / Status

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5.8.1.38. Control Library Usage

Fields required for this report

This dashboard shows the count and specific uses of each entry in the Controls Library.

You can view additional information by selecting the Column Visibility Icon in the Top Left Hand of the panel and selecting the following additional fields:

For Usage Counts: Code, Category, Name

For Usage Instances: Library Code, Action Type Action Code, Risk Code

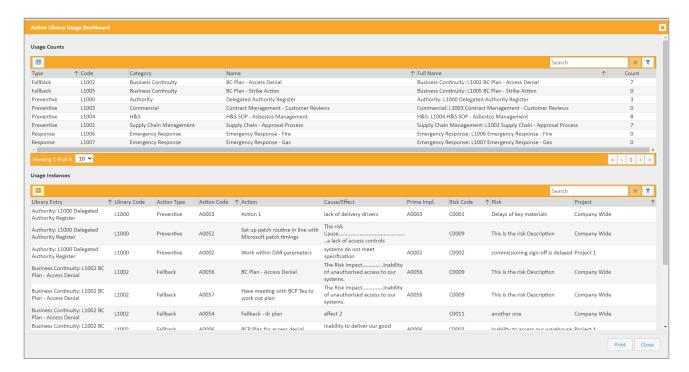


Figure 168 – The Library Usage Dashboard

Where to locate the fields

Tronds required for time report	
Action Type	Edit / Action / Action Type
Library Code	Library ID
Library Category	Edit / Action / Library Category
Library Name	Edit / Action / Title
Library Description	Edit / Action / Description
Library Entry	Edit / Action / Library
Cause / Effect	Edit / Descriptor / Cause or Effect
Risk	Edit / Descriptor / Risk Name
Project	Edit / Position & Timeline / Project Node

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5.8.2. Reports

Risk data, which either spans the risk portfolio or belongs to an individual risk, can be downloaded to Excel or JSON. However, only users with download access can use this feature. The reports available will be different for each organisation, however if no specific reports have been defined, then the default reports will be available. Each of these downloads are configurable.



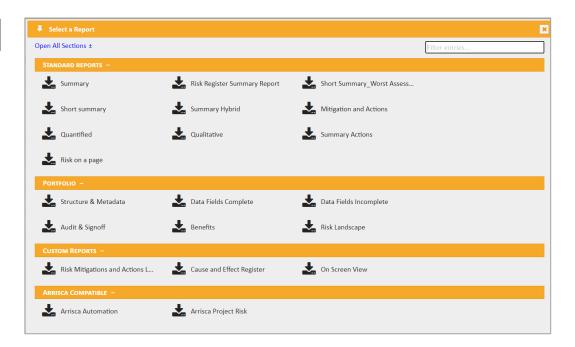


Figure 169 - The Reports button and panel

The reports listed below are the default reports.

Risk Reports	Qualitative Summary Report	This report downloads risk data such as: Risk name, start and end dates, qualitative scoring, mitigation information.
	Qualitative Risk Report	Downloads risk data such as: cause, consequence, category, source, phase, worst scores, mitigation strategy and last review.
	Detailed Qualitative	Downloads risk data such as: classification, category, start and finish dates, qualitative probability, qualitative impacts for cost and time and scores and last review.
	Qualitative Risk, Mitigation and Actions Report	Downloads risk data such as: worst scores, Mitigation and Action information
	Mitigation / Action Report	Downloads risk data such as: risk name, miitigation and actions, completion, current progress and review dates, Action Commentary.

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Quantitative Risk Report Downloads risk data such as: classification, start

and finish dates, probability, minimum, most likely, maximum quantified cost impacts, and

probability mean.

Hybrid Risk Report Downloads risk dat such as: proximity, start and

end dates, classification, probability, minumum, most likely, maximum quantitied cost impact and

qualitative worst scores.

Risk on a Page Dowloads individual risk information on a single

excel sheet, with reach risk on a separate tab.

Consistency Report for key fields Configured to enable dashboard reporting for

Data Fields Complete / Incomplete.

Portfolio Structure & Metadata Downloads project data such as: project titles,

ratings and scores, datasets used, project and risk

budgets, start and finish dates of projects.

Data Fields Complete Downloads the same data as Structure & Metadata

but also includes a section showing the level of

completion on key fields.

Data Fields Incomplete As above but this time showing the level of

incompleted key fields.

Audit & Signoff Downloads which projects have been assessed and

the assement details.

Benefits Downloads the risks relating to any beneifts of the

project.

Risk Landscape Downloads project details such as aggregated and

individual node budgets, minimum, expected and maximum cost figures, aggregated pmean for each node, risks as a percentage of the project budgets.

Arrisca Arrisca
Compatible

Arrisca Automation riskHive also produces the software Arrisca which is

used specifically for analysing quantative risk data. This report will generate an excel spreadsheet containing the Cost quantitative values ready for

importing into Arrisca for analysis.

Arrisca Project Risk This report will generate an excel spreadsheet

containing the Time quantitative values ready for

importing into Arrisca for analysis.

Custom Your administrator can create reports to meet your

exact requirements and they will saved in this

section.

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The **Reports** panel provides functionality for easily exporting Microsoft Excel Risk Registers into the ERM system.

Select any of the reports and a **configure report** panel will appear. This panel may be slightly different depending on the report selected:

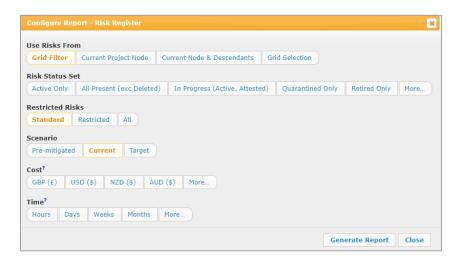


Figure 170 – The Reports panel

The **Use Risk From** section asks if you wish to download data from the **Grid Filter** (I.e. what is currently showing on your grid, **Current Project Node** (I.e. everything in the node you are in at the time of running the report), **Current Node and Descendants** (I.e. everything in the node you are in and below) or the **Grid selection** (I.e. if you have selected specific risks showing in your Grid).

You can select the risk status from the options in **Risk Status Set.** Note: This is the system status only and not the ERM states.

Restricted Risks will only be available to you if you have permissions to see restricted risks.

The **Scenario** section asks if you wish to see data from **Pre-mitigated**, **Current** or **Target** assessments.

You can choose to see currencies in the local rate of the project or a choice of other rates through the **Cost** option.

As with the **Cost**, you can choose to see the report displaying the timing of the project or in different timings of your choice through the **Time** option.

Once you have made your selections, select **Generate Report** and the data will be exported to Excel.

Depending on the report you selected, the spreadsheet will something like the below:

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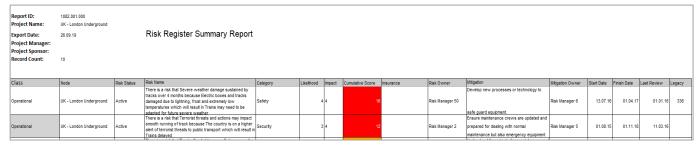


Figure 171 – Downloaded Risk Register Summary Report

All reports in the Portfolio section download immediately once selected and need no configuration to run.

5.8.2.1. Registers

The **Registers** panel provides functionality for easily exporting and importing Microsoft Excel Risk Registers into the ERM system. The panel contains the standard **Risk Register** which can be downloaded and used as a template. Organisations can create their own registers for their specific usage. If the field names remain the same, registers can be uploaded without difficulty.

Individual risk data or risk data spanning the portfolio can be downloaded into Excel, altered, and uploaded back into ERM. Only users with export and import access can use these features.



Figure 172 - The Registers buttons

To download a Register, click on the required register and a **configure report** panel will appear. This panel may be slightly different depending on the report selected:



Figure 173 – The Register panel

The report will download into excel and will usually appear as a download on the bottom left-hand side of your screen.

If you decide to amend the data within the download and wish to re-import the register, select the equivalent register in the **Standard Imports** section. An import screen will appear:

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Figure 174 – The Import panel

Drag and drop your excel file on the black part of the screen to upload your data into the system.

5.8.2.2. System Node Data Export and Import

You can amend your Node Data information from the Register panel.

5.8.2.3. Schedule Output

This panel allows users with the correct permission to schedule reports on a regular basis. It enables you to email a particular person a copy of a report or register on a set time and date and repeat the email if necessary.





Figure 175 – The **Schedule Output** button and panel

Manage Schedule Exports	Scheduled Exports	Provides a list of current scheduled exports.
Standard Reports		Risk Reports which can be emailed to a specific person, at a specific time and date and repeated eg weekly, monthly.

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Custom Reports Custom Reports which can be emailed to a

specific person, at a specific time and date and

repeated eg weekly, monthly.

Standard RegistersStandard Registers which can be emailed to a specific person, at a specific time and date and

repeated eg weekly, monthly.

If you select a report or register the following panel will appear, although depending on your configuration the last two fields could look different:

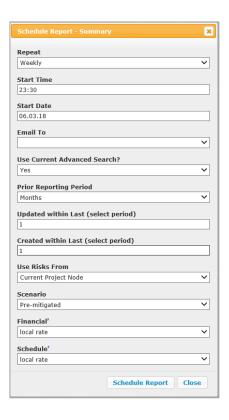


Figure 176 – The Schedule Report Summary panel

Once the **Start Time**, **Start Date** and **Email To** have been set up, you can repeat emailing the report or register hours, days, weeks, month or years later.

The **Start Time** is asking the exact hour and minute you wish to email the report or register.

The **Start Date** is asking the exact date you wish to begin the report. It will repeat according to the selected **Repeat** period.

The **Email To** is asking who you wish the report or register to be sent to. You can schedule a report to be emailed to specific users and/or groups of people.

If you have previously used the **Advanced Search** to filter your risks on the main screen, the **Use Current Advanced Search**? option will save your **Advanced Search** filter options and use this again if you were to repeat emailing the report or register to someone at a later time/date.

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To reduce the content of the output to only those risks that have been created and/or updated during a given time span, use the **Prior Reporting Period**. Here you can specify the report should contain only those risks that are new or have changed during the N Days/Weeks/Months prior to generation of the report.

Use Risks From tries to identify where the risks are current stored (either in the current node or node and descendants), risks that have been filtered or highlighted on the main screen.

You can select from pre-mitigated, current or target risk status using the **Scenario** option.

The **Financial** option is asking what currently you wish the report or register to display.

The **Schedule** option is asking what rate you wish the report or register to display.

By selecting **Schedule** report, you are setting up the time and date when the report will be emailed. This will also be recorded in the **Schedule Exports** list in the previous panel.

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5.8.2.4. My Risks

My Risks enables you to see the risks which you have been identified as the risk owner or managing the risk.





Figure 177 – The My Risks button and report

In the above report Contractor A manages 6 risks and is the risk owner for 13 risks and a list of the individual risks is shown directly underneath.

The section **Risks with Closest Proximity** uses the quantitative proximity of the Start and Finish date of each risk to indicate when the risks could materialise.

The section **Top Financially Rated Risks (by Probabilistic Mean)** organises Risk Manager 10's risks into risks with the highest current probability mean.

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At the bottom you can view the risks of someone else by selecting **Change User**.

You can edit a specific risk, by clicking on the **Code Reference**.

NOTE 1: Only Administrators have access to the 'Change User' option.

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5.8.2.5. My Actions

This report shows the actions owned by yourself or another person. As with the previous report, there is an option to state what level of confidentiality or security you wish to place on printed reports.





In the example above, Risk Manager 12 is the risk owner for 4 actions. A series of status is displayed underneath.

Select the **Combined ID** reference to edit an action.

The action panel will open a new window for in-line editing. Once the action has been edited and the changes saved. Upon closure of the edit panel the system will re-fresh the My Actions grid and you can continue editing the remaining actions.

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5.9. Tools

The **Tools** panel gives you tools to attach documents, view key words across risks and projects, view geographical locations of projects, create bowties and groups, Monte Carlo simulations on costs and schedule.





Figure 179 – The **Tool** button and panel

System Tools		Word Cloud	The Word Cloud searches through the risks to find common words or phrases and displays them in a simple diagram.
	②	Map View	Shows the geographical location of projects.
		Report Manager	Provides the ability to re-download and or delete obsolete/old files. This option is only available to Administrators.
		Upload/Register Manager	Provides the ability to re-download and or delete registers. This option is only available to Administrators.
Bowtie Generator	*	New Bowtie	Create a new risk using the bowtie.
	\checkmark	Bowtie from Selected	Display the bowtie from the risk or risks selected.
	-[Bowtie from All	Display the bowtie from all the risks on screen.
		Bowtie from Group	Display the bowtie of a Group.

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Qualitative & Quantitative Convertors



Qualitative to Quantitative Convert qualitative Cost assessment to a quantitative assessment.



Quantitative to Qualitative Convert quantitative Cost assessment to a qualitative assessment.

Groups



Create Group

Creates a group.



Add to Group

Add the current risk(s) to a group.



Remove from Groups

Remove the current risk(s) from a group.



Manage Groups

Lists the current groups and enables you to view the risks within each group, remove risks from a group or delete a group.

User Tools



Users Online

Shows which users are currently using or have accessed the system within the last hour but their session has not yet timed out. This option is only available to an administrator. (Times shown in UTC).



User Access

Shows how many times a user has logged into the system and the date of their last log in. (Times shown in UTC).



User Activity

Shows the date and time when a user has logged in or out of the system within a given time frame. (Times shown in Local Time).



User Risk Activity

Shows the activities you conducted within a time frame. (Times shown in UTC).



Refresh Risks

There are many occasions where extensive changes are made to a risk. To ensure all changes are showing on the screen, select **Refresh Risks**.



Refresh Page

If work has been conducted in the Dataset or Administration pages i.e., custom fields have been added, lists altered, Heatmap colours changed then the main page may need refreshing to display those changes.



Scheduled Exports

Only available to Administrators and Users with 'Schedule' permissions.



Bulk Exports/Imports

These are only available to Administrators.

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5.9.1. System Tools

5.9.1.1. Word Cloud

Word Cloud conducts an analysis on the text within the **Name**, **Cause** or **Effect** of the risks you have on screen and shows duplicated words or sentences.



Figure 180 - The Word Cloud button and panel

Once you have made your selection, select **Generate Report** and the following panel will appear:



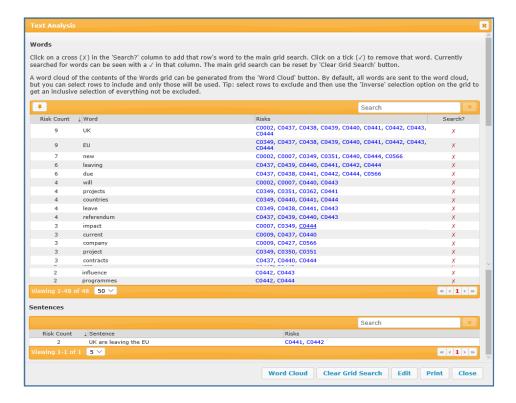


Figure 181 - The **Text Analysis** panel

The panel returns all duplicated words and shows how many risks contained a word in the **Risk Count** column. The individual risks are displayed in the **Risks** column.

As many words are shown, you may wish to deselect common words which do not contribute i.e., due, will. You can filter the risks further by typing in the **Search** box.

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By selecting the **Word Cloud** option, a graphic will appear showing the key words:



Figure 182 - The Word Cloud panel

The **Word Cloud** acts as a visual interpretation of the key words across the risks. From the example above, it is clear that within a specific project the main concern and opportunity is around damage and delays.

The **Configure** option enables you to tailor the filtering even further.

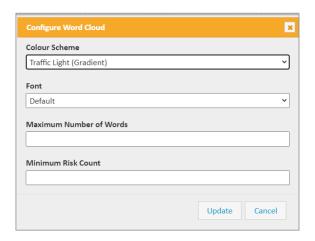


Figure 183 - The Configure panel

The **Colour Scheme** enables you to change the colours on the Word Cloud.

The **Font** section enables you to choose a different font.

The **Maximum Number of Words** enables you to cut down how many words you wish to display on the **Word Cloud**.

The **Minimum Risk Count** tells the system to display risks with up to a minimum number of repetitive words within a risk.

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By changing the configuration of the example above, we can make the word cloud look something like the below:

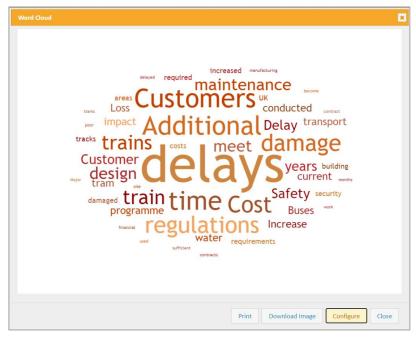


Figure 184 - The Word Cloud panel reconfigured

5.9.1.2. Map View

The **Map View** provides a geographic view of where the various projects are located by clicking on the various black boxes showing the number of projects in each area.



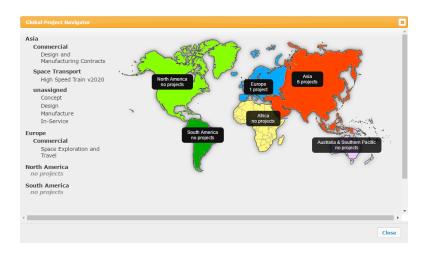


Figure 185 - The Sign Off panel

This graphic is for information only. When a location is entered into the **Administration** panel there is a **Region** option to select for each node. By selecting a **Region**, each project will be identified on the **Navigator** map.

5.9.1.3. Bowtie Generator

5.9.1.3.1. New Bowtie

Bowtie diagrams are a simple and effective tool for visualising and communicating risk information to employees at all levels. Not only is a Bowtie a very simple way to create a risk but the diagram clearly displays the links between the **assumptions**, potential **causes**, the **controls**, **event** and **consequences** of the risk(s) and **fallback** options.





Figure 186 - The **New Bowtie** button panel

Right click anywhere on the screen, select Create New Risk.

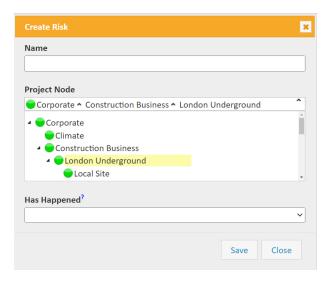


Figure 187 – Creating a new risk

Type the name of the risk in the **Name** section. Identify where you wish the risk to be stored in the **Project Node** section. If the risk Has Happened, then you can select Y at this stage. Select **Save**.

Note: The option of Has Happened? Will only appear if your system administrator has this configured.

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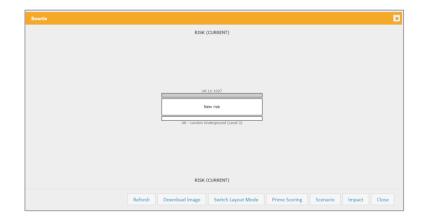


Figure 188 –A new risk in the **Bowtie**

The newly created risk will appear in the centre of the screen.

To add a cause, right click in the Risk box, then select **Add New Cause...,** give the cause a **Name** and a current qualitative **Probability** level and select **Add**. Do the same for the **Effects** and this time add a current qualitative **Impact.** You can add multiple **Causes** and **Effects**.

NOTE: Any assessment impact can be selected for the Prime Effect, however, only Cost can be selected for all other Effects.

Underneath the first **Cause of Risk** and **Risk Effect** you created will be displayed the word **prime** in grey. The Bowtie will list the first **Cause** or **Effect** as the primary concern.

If you are not satisfied with the order of the **Causes** or **Effects**, come out of the bowtie, with the risk selected, select the **Edit** button, and select **Definition**. In the **Cause** or **Effect** section, select the risk you wish to move. Select **Sort** and the following panel will appear:

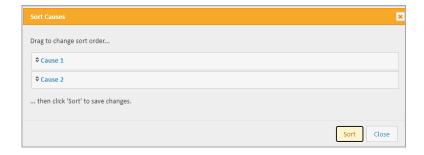


Figure 189 - The Sort panel

Click and drag the **Cause** you wish to move to the correct position within the **Causes** list. Select **Sort**.

Back in the bowtie, to delete a **Cause** or **Effect**, right click in the cause box and select **Delete**.

Note: The changes you make to the risks probability and impacts may affect the colour of the risk box.

Controls, **Responses** and **Fallbacks** can be added using this method as well. Select the cause box, right click, and then select **Create New Control** and the following panel will appear:

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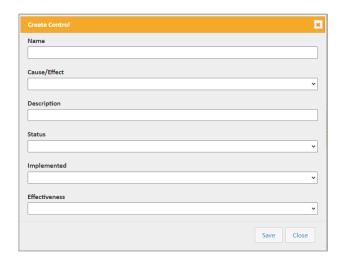


Figure 190 – The Create Control panel

Give the Control a title in the **Name** section. You will be forced to assign the control to a cause/effect. Where there is more than one Cause/Effect these options will appear in the drop-down list. Once the control has been linked you can continue with completing the other fields. Continue to complete the other fields as appropriate. Select **Save**.

If the action has already started, identify the level of implementation and effectiveness.

Note: If an action is above 75% implemented and 75% effective, the action will be coloured blue within the bowtie. This symbolises the action is controlled and needs no further monitoring. If an action is uncontrolled (that is, under 75% implemented and less than 75% effective) then the action will be red.

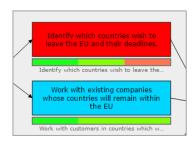


Figure 191 – Example of Uncontrolled (red) and Controlled (blue) actions

As you can see, each action will also have a bar underneath split into 3 sections representing the status for the risk, its level of implementation and effectiveness.

Identify which Cause or Effect this action relates to.

There are arrows between the **Cause of Risk** and the **Risk Controls**. These are links and showing which actions are addressing which cause. If a **Risk Control** has not been linked to a cause (e.g., the final action in the column) there will be no arrow.

Note: The Risk box will change colour according to the current highest probability and cost impacts.

The grey object within the actions sections means an action has not yet been created but the system has put in a place holder instead.

To create a **Response** or **Fallback**, click on the **Effect**.

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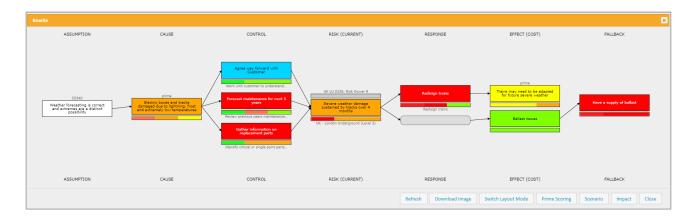


Figure 192 – Example of bowtie with responses and fallbacks

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5.9.1.3.2. Bowtie from Selected

This is a very useful feature giving the Risk Manager the ability to view a **Bowtie** of a single risk of a selection of risks.

If you select a single risk and then select **Tools** and **Bowtie from Selected**, you will see the following:

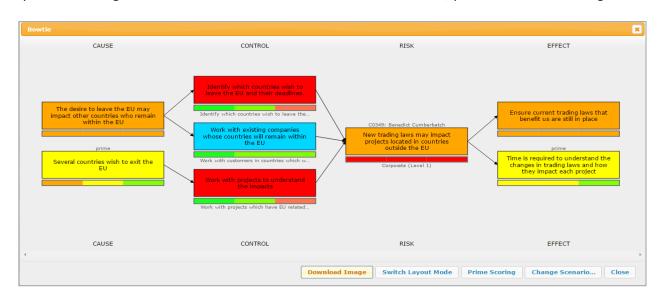


Figure 193 – A single risk displayed in the Bowtie

The system will automatically generate a **bowtie** diagram using the **cause**, **treatment**, **event**, **consequence**, and **fallback** information that has previously been entered into the system. Where information has not been added, there may be blank spaces, but you can use the bowtie to add the elements required.

If you select several risks, then select **Tools** and **Bowtie from Selected** you will see:

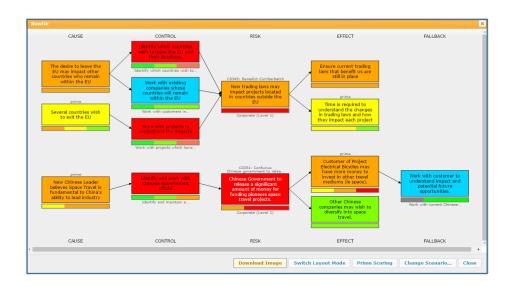


Figure 194 – Several risks displayed in the **Bowtie**

If an empty box appears in the **Risk Control** column this means a place holder for an action has been generated which you can complete later.

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At the bottom of the panel are the following options:

Download Image Download the image to PDF.

Switch Layout Mode Makes a number of bow ties fit closer together.

Prime Scoring The colour of the risk is dictated by the qualitative **Probability** x **Prime Cost**

impact. By changing this to Worse Scoring, the risk colour will be dictated by

the **Probability** x **Worse Impact** score.

Change Scenario The bowtie will show the current scenario of the risk by default. You can

choose another scenario.

Close Close the bowtie and return to the main screen.

5.9.1.3.3. Bowtie from All

If you filter and display on screen all the risks you wish to see in a bowtie you do not need to select them, you simply select **Bowtie from All** and a Bowtie will open showing all the risks.

5.9.1.3.4. Bowtie from Group

Similar to **Bowtie from Selected** above, if you select the **Group** header, **Tools** and **Bowtie from Group** you will see all the risks within the **Group** displayed within the Bowtie. The lead risk will show at the top of the Bowtie.

Note: The more risks you display, the bowtie will be more complicated (and difficult to read) on screen.

Displaying a group of risks within a bowtie is not just simple but extremely effective when trying to update several risks and reviewing the potential impacts of those changes on other risks within the group.

5.9.1.3.5. Bowtie has happened

The bowtie editor allows users to be able to select if the risk Has Happened from within the bowtie. (Where configured to do so by System Admin).

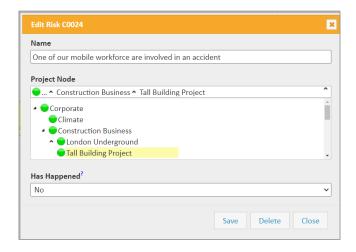


Figure 195 - Bowtie - Has Happened Indicator field

When the risk has not happened (or blank) a grey bar will now show above the risk information.



Figure 196 – Bowtie - Has Happened Indicator – not happened

When the risk has happened the bar will turn black.

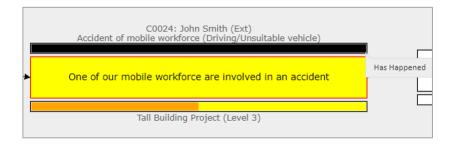


Figure 197 – Bowtie - Has Happened Indicator -has happened

Note: The grey and black colours are configuration by system administrators.

5.9.1.4. Qualitative & Quantitative Convertors

5.9.1.4.1. Qualitative to Quantitative

The **Qualitative to Quantitative** option enables you generate quantitative assessment figures from a qualitative assessment.



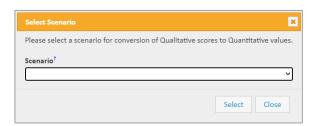


Figure 198 – The **Select Scenario** button qualitative convertor

The **Scenario** is asking where the current qualitative figures reside. Once identified from the drop-down list, click on **Select & Convert**.

5.9.1.4.2. Quantitative to Qualitative

Equally, if you have quantitative figures which you wish to convert to a qualitative assessment you can use the **Quantitative to Qualitative** option:

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Figure 199 – The **Select Scenario** button quantitative convertor

5.9.1.5. Groups

5.9.1.5.1. Create Group

When risks have similarities or relationships you may decide to create a group. The risks remain independent and can be edited individually but they also can be retrieved in a group.

Select 2 or more risks (the first risk selected will become the dominant risk within the group). Select the **Create Group** button.



Figure 200 – The Create Group button

Whilst the group is being established, a timer will appear on the screen briefly.

5.9.1.5.2. Add to Group

Risks can be added to existing groups. Select the risk(s) you wish to add, select the **Add to Group** option.





Figure 201 – The **Add to a Group** button and panel

The **Existing Group** displays a list of existing groups. Select the group relevant for your risks and select **Add**.

If the group does not currently exist, select **Add to New Group**.



Figure 202 – The Add to New Group options

Add the group's name in the **New Group Name** section. Add a description in the **Notes** section (e.g., risks with financial considerations to objective A, risks belonging to a struggling supplier, risks that could impact environmental regulation 1.2). Help another user understand the relationships of the risks within the group.

Select Add.

5.9.1.5.3. Remove from Group

First, remove the risks within the group. Search for the parent risk. The parent risk and the risks within the group should appear on the screen. Select one of the risks within the group, select **Tools** and **Remove from Group**. Do this to all the risks within the group. Finally, you will be left with the original parent risk, but this no longer belongs to a group as it no longer is linked to any other risks.

Select a risk which belongs to a Group, select Risk Actions and then Remove from Groups.



Figure 203 – The Remove from Groups button

The risk is not deleted. The risk remains on the main screen but is no longer part of a **Group**.

5.9.1.5.4. Manage Groups

You can see all the Groups created by selecting Managed Groups:



Figure 204 – The Manage Groups panel showing the list of Groups

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A list of the **Group Headers** will appear. To see the risks within a group, select the **Code**.

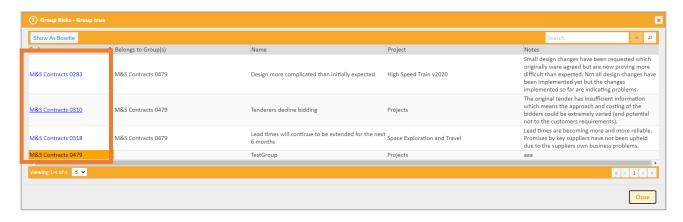


Figure 205 – A list of risks contained within a Group

A list of the risks will appear. To view a risk, select the **Code**. The risk will appear in the main screen behind this panel. To see the risk, close this panel first.

5.9.1.6. User Tools

5.9.1.6.1. User Access

The User Access Dashboard shows you how many times a user has logged into the system within a given period.

Select the date ranges for which you wish to run the report. (Times shown in UTC.



Figure 206 - User Access panel

5.9.1.6.2. User Activity

The **User Activity** gives you two options:

Users Only Displays a list of user activity sho

Displays a list of user activity showing when users logged into the ERM system and when the system timed out. (Times shown in Local Time).

Users and System Activity
Similar to **Users Only,** however, if you select Description from the Column Visibility option, you can see which users have:

- Exports Requested,
- Reports Requested,
- Dashboards Prints Requested,
- Files Downloaded.

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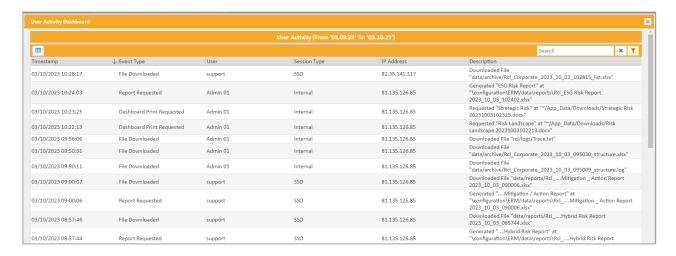


Figure 207 – The User Activity results with description selected

5.9.1.6.3. User Risk Activity

The User Risk Activity shows the total number of risks a person has changed, the number of risks created, updated, or deleted. **Note:** This will include any amendments, such as spelling changes.



Figure 208 – The User Risk Activity panel

Firstly, indicate the timeline by selecting a **Start** and **Finish** date. The select **Generate Report**. (Times shown in UTC).



Figure 209 – The User Risk Activity results

5.9.1.6.4. Refresh Risks

There are many occasions where either the Administrators or Users may make major or extensive changes and it is possible these changes may not show on the main screen immediately.



Figure 210 - The Refresh button

Use the Refresh Risks option to ensure all risks are updated with any changes. Normal editing of a risk should not require this function.

5.9.1.6.5. Refresh Page

If changes have been made that impact the look of the main screen or drop-down menus, refresh the page to see the updates.



Figure 211 - The Refresh button

5.9.1.6.6. Scheduled Exports

If you have permissions to create **Scheduled Reports**, this provides a list of reports that have been scheduled. From this panel, reports may be re-scheduled (edited) or deleted from the schedule. (Times shown in UTC).



Figure 212 – Scheduled Exports edit panel

5.9.1.7. Bulk Export/Import

5.9.1.7.1. Bulk Copy Risks

If you have the permissions, you can use the Bulk Copy to clone a complete node, its children, and all risks to another node. This is useful when a folder of templated risks exists as a starting point for a new project.

5.9.1.7.2. Bulk Export Risks

If you have the permissions, you can use the Bulk Export to back up a complete node, its children, and all risks to a file. This is useful when it may be useful to take a snapshot of a node for potential reimport at some later time or transfer to a different ERM application (E.g., Dev to Live).

5.9.1.7.3. Bulk Import Risks

If you have the permissions, you can use the Bulk Import of a backup previously sent to a file. This may be needed if experimental changes to risks need to be reset (restored) or as a transfer from a different ERM application (E.g., Dev to Live).

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5.10. Analysis Montecarlo Simulation





Analysis **Simulation History** Runs previous Monte Carlo Analysis. **Cost Analysis Cost Analysis** Runs the Monte Carlo Analysis. **Cost Profile Default Profile Definition** Where the default period percentages are **Definitions** defined for the default profile. **Current Profile Definition** Where the period percentages are defined for a specific project, where these need to deviate from the default profile. **Risk Profile Definition** Runs a Risk Profile and allows the individual and/or multiple edits for the risk profiles where these deviate from the default/project profile. **ESG Analysis** Carbon Runs the Monte Carlo Analysis for Carbon. Note: This will only appear if configured by riskHive Support. **Schedule Cost Schedule Cost** Runs the Monte Carlo Schedule Analysis. **Analysis**

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Appends risks to the Schedule Cost Analysis.

Schedule Cost Append

5.10.1. Analysis

5.10.1.1. Simulation History

This runs previous Monte Carlo Analysis. (Refer to Section Cost Analysis for details on graphics provided when a historical simulation is selected).

Historical simulations can be viewed, deleted, or copied. You may also add comments to these simulations.

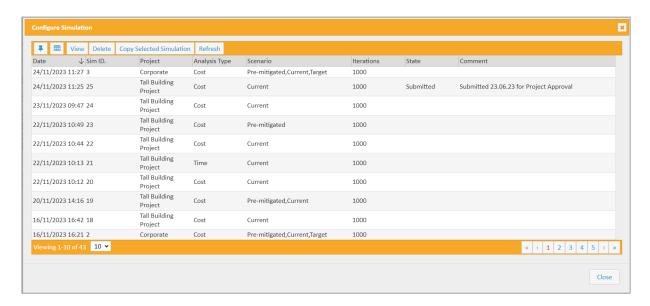


Figure 213 – Simulation History Panel

5.10.1.2. Cost Analysis

Monte Carlo simulation is a technique which can be used to quantify the impact of uncertainty on a project's cost and/or schedule. Ranges of possible outcomes are specified by the user as to how long each individual task might take, or how much each item costs. Running a Monte Carlo simulation generates hundreds or thousands of possible scenarios for each input, allowing decision makers to understand their best-case scenario, their worst-case scenario, and everything in between.

Risks held in the ERM application may be assigned a quantitative cost impact across each of the configured scenarios. ERM is then able to run a simulation which shows the distribution of the outcomes of those risks, across all the simulated scenarios. ERM also calculates various statistics from all simulated values, enabling the user to understand what their risk is at a given percentile. For example, if you wanted to find out how much risk contingency you would need to be 90% confident it was sufficient, you would look at the P90.

For cost analysis to provide some informative output, a node must have risks with cost impacts. Constant values are permitted but may not provide any more insight than "adding" values. Risks and nodes in a hierarchy are allowed, using node and descendant risks. The analysis will simulate ate each node and aggregate results ups through the hierarchy as the analysis progresses.

Preparation for analysis of risks at a given nodes simply select the node and select "Cost Analysis".

All risks will be added to the analysis, regardless of having any quantitative cost.

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5.10.1.2.1. Adding Uncertainty / Fixed Deterministic to the Node



Figure 214 – Quantitative panel – adding uncertainty

Fixed Deterministic – This defaults to Zero but can be edited.

Overrun Deterministic – This is only applicable for SRA – do not use.

Schedule Lag Type - This is only applicable for SRA – do not use.

Adding Uncertainty – This adds uncertainty at the Node level for each of the scenarios.

The output following shows a single node with a fixed cost of £500,000,000 and multiple risks.

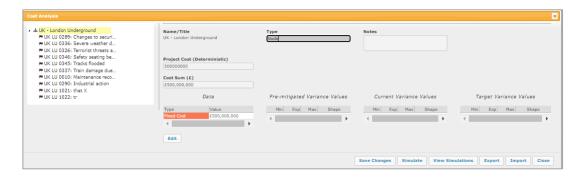


Figure 215 - Cost Analysis panel

5.10.1.2.2. Adding Uncertainty at risk level

As well as being able to adjust node parameters, each of the risks may be selected and their cost impacts can be adjusted by selecting **Edit Quantitative data.**



Figure 216 – Cost Analysis - adding uncertainty at risk level

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Figure 217 – Cost Analysis Edit Quantitative panel

5.10.1.2.3. Running a simulation

Once the appropriate Fixed costs, uncertainties and risk impacts have been configured an analysis can be run by selecting **Simulate**.

You can run the analysis at the mode level or at individual risk level. To run the simulation, select the level at which you wish to run the analysis and click on the **Simulate** button.

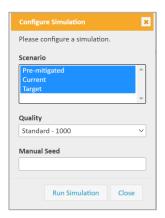


Figure 218 - Simulate panel

You can select any, or all the scenarios, by using the control key. Then chose how many iterations you want the analysis to be based upon. The selectable Monte-Carlo iterations/quality and their labels are configurable (by Support). The default values are as follows.

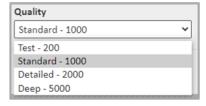


Figure 219 – **Iteration** options

You can specify the number generation start seed for a Cost or Schedule simulation. The seed is saved with a simulation.



Figure 220 - Manual Seed options

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Output from all scenarios will result in a combined summary of the **Fixed Cost Risk**.



Figure 221 – Cost Analysis Iterations output

The top graph in this example is showing the Fixed Costs at the Deterministic.

The bottom graph is showing the Cost Risk- adjusted project cost Fixed Cost Risk + Deterministic Value.

You can switch of any of the results by clicking on the radio buttons which are situated below each graph.



Figure 222 – Cost Analysis display options

5.10.1.2.4. Submit Analysis/Profiles

You can add commentary to the analysis by clicking on the Submit Analysis/Profiles button on the bottom of the panel.

You can also select a Profile Type to indicate if the analysis has been Submitted or Rejected.



Figure 223 – Submit Analysis/Profiles Editor

This information will appear in the State and Comment section within the simulation history.

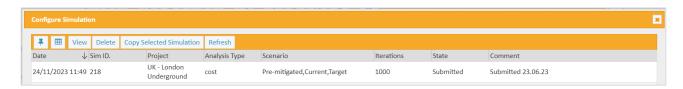


Figure 224 – Simulation History Editor

It will also appear in the header section of the CRA itself.



Figure 225 – **CRA** – Header Information

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By clicking on the **Select Scenario** button you can retrieve a detailed simulation output.

In the screen shot below, the Current Scenario was selected.

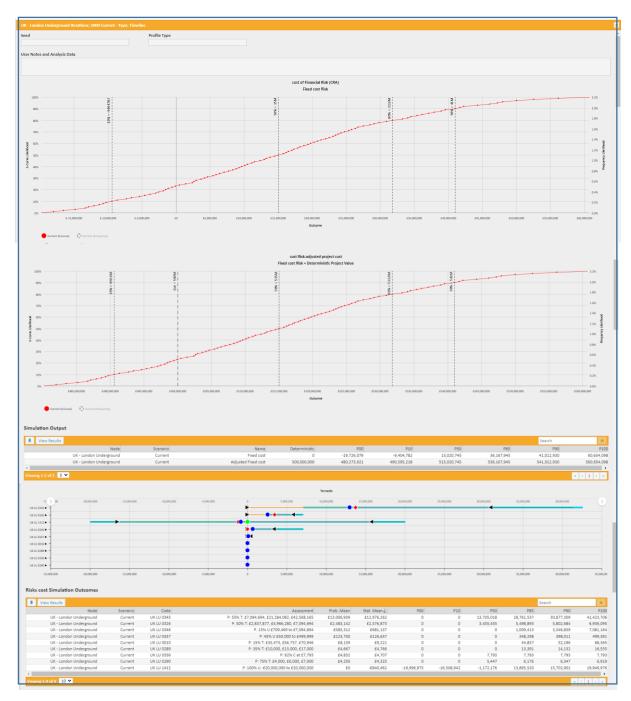


Figure 226 – Cost Analysis Iterations output - Example

The output consists of:

- S-curves for the Fixed Cost Risk and node Deterministic.
- Percentile results table for the selected node simulation output.
- A Tornado graph for the contributing risks.
- **Risks Cost Simulation Outcome Data Table** containing the data produced from the Monte Carlo simulation. This shows the 0%, 10%, 50%, 85%, 90% and 100% probability of costs occurring, and the percentage these figures are of the total project value. The statistical average is also produced.

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If you wish to view the output as a histogram, select the **Toggle Histograms** button at the bottom of the page.

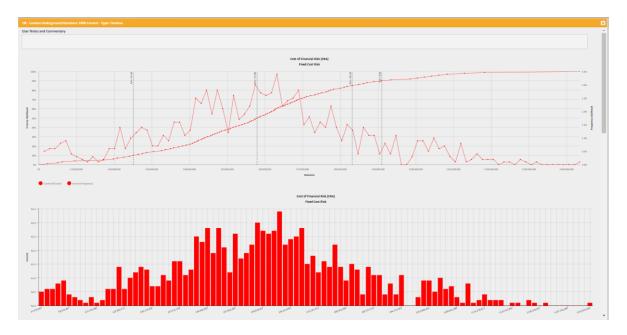


Figure 227 – Cost Analysis Histogram output - Example

Where applicable, each graphic and associated results may be viewed in more detail and printed (see **Download Data** and **Print buttons**).

5.10.1.2.5. Multi-node/project simulation

As well as analysing risks and uncertainty at a single node, a simulation may be run against a hierarchy of nodes and impacting risks.

This is achieved by requesting **Node & Descendant** risks prior to opening the **Cost Analysis tool**. Select the risks you wish to analyse using the standard grid filters (e.g., risks belonging to a certain category), and these risks will be used for the simulation.

As an example, the following sample shows multiple nodes, where the risk category was filtered on "Commercial". Here you can see that the simulation will now run on those highlighted risks.

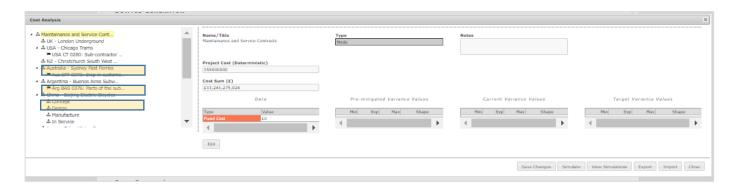


Figure 228 – Cost Analysis panel

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5.10.1.2.6. Transfer of adjusted risk exposure value to risk allocation fields

Note: For this functionality to be available, your system administrator must have enabled this within your configuration. If this is set to false, the options below will not be shown within the Risk cost simulation outcomes table.

When a Monte Carlo Simulation and Analysis is carried out on a risk register the results are often used to set a risk appetite and define risk allocation based on a probabilistic outturn. Common indicative 'P-numbers' are 10%, 50% and 90% although it is usual for a number between 70% and 90% to be used for setting risk funding, sometimes known as risk allocation. This number is based on the probabilistic analysis of all the risks in the data set and will yield a definite single numeric value.

This works fine for the project or at the whole risk register level, but where each risk is required to have an allocation of its own, based on the P-number, ascertaining the individual risk allocation values can be challenging. One could use the associated P-number result for each risk, but the resulting sum of those individual P-numbers would add up to a number different from (probably greater than) the same P-number for the whole project. This is difficult to explain to accountants.

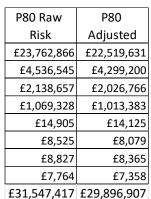
riskHive ERM software has a unique function based on a standard method of P-number calculation that can be used to calculate and then transfer individual risk P-numbers to each risk allocation where the sum of the allocations will add up to the overall risk register P-number, keeping the accountants happy and saving lots of time and external work in excel.

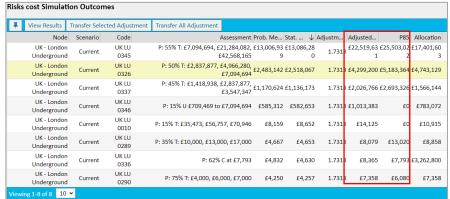
Example:

In an analysis of 8 risks in a register, the overall P80% for the analysed dataset is £29,896,907.

The raw P80% values of the individual 8 risks sum to a total of £31,547,417.

The 8 calculated individually system-adjusted risk values sum to £29,896,907 which is the same as the overall P80% figure. These two sets of individual risk P80% values are shown in the table below:





As the risk parameters change over time and the Monte Carlo Simulation and Analysis is re-run over again, the adjusted value can be used to compare and assess whether the individual risk allocations are still appropriate, and if they deviate significantly the function can be used to update the values.

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Prerequisites

- 1. At least one cost-quantified Risk, Opportunity, or Uncertainty object.
- 2. Monte Carlo Simulation available.
- 3. Admin-configured P-number is set (nominally P80% is default value).

Process

Prepare and compare

- 1. Run Monte Carlo Simulation on the risks that are to have allocation set.
- 2. Select the scenario from which you wish to set the allocation values.
- 3. Scroll down to view the 'Risks cost Simulation Outcomes' section of the page.
- 4. Review the 'adjusted' values against the current 'allocation' values.

 This will give an indication of whether the risk is correctly funded w-r-t the appropriate P-number in the Monte Carlo analysis. It will likely not be an exact match. If there is a significant deviation between the 'adjusted' value and the current 'allocation' value, then it may be desirable to align them by copying the 'adjusted' value into the 'allocation' field.

Transfer adjusted risk values - Individual risks.

In the results grid, select the risk(s) that you want to transfer the values for.

Click once on the 'Transfer Selected Adjustment' button.

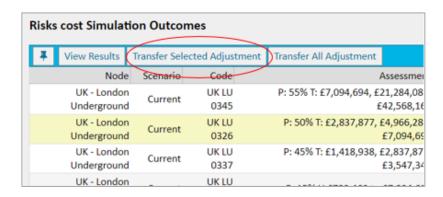


Figure 229 - Risk Coat Simulation - Transfer Selected Adjustment

Confirm or cancel the transfer in the dialogue box.

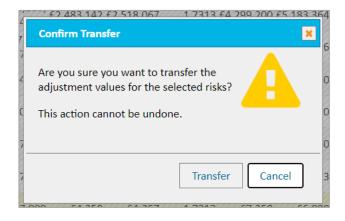


Figure 230 - Risk Coat Simulation - Confirm Transfer

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The screen will refresh, and the Allocation field will contain the same data as the Adjusted Value field.

Transfer adjusted risk values - all risks

Click once on the 'Transfer All Adjustment' button.

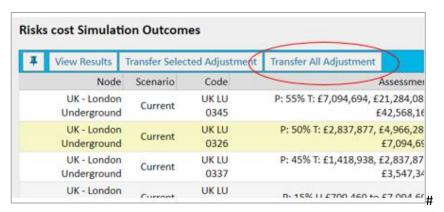


Figure 231 – Risk Coat Simulation – Transfer All Adjustment

Confirm or cancel the transfer in the dialogue box.

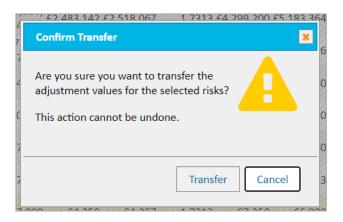


Figure 232 – Risk Coat Simulation – Confirm Transfer All Adjustment

The screen will refresh, and the Allocation fields will contain the same data as the Adjusted Value fields.

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5.10.1.3. Carbon Analysis / Other Impact Analysis

The Monte-Carlo analysis tool may be run against risks with impact types that have been quantified.

By identifying additional impacts to the Analysis Engine, those impacts may be "analysed". For example, a new impact "Carbon" may be created and risks that have an uncertain carbon output can be passed through the analysis engine and percentile outcomes produced.

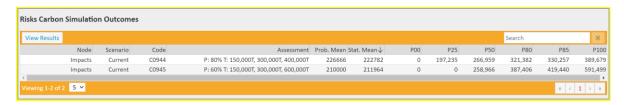


Figure 233 – Carbon Analysis – Risk Carbon Simulation outcome

Note: We can add Carbon (CO2) if requested to existing deployments, but impacts are not restricted to Carbon. Other impact types e.g. Energy (Watts) or existing impacts, for example Health and Safety are permitted if there were a way to quantify these. If this is required, please contact **support@riskhive.com**.

Once this option has been created by riskHive Support, a new Analysis Icon will appear within the Monte Carlo Analysis Editor from where simulations can be run.



Figure 234 – Impact Carbon Analysis – Risk Carbon Simulation option

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5.10.1.4. Cost Profile Definitions

Projects and risks can be profiled from within the Analysis Monte-Carlo Simulation Editor.

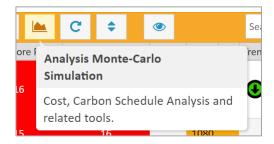


Figure 235 – Analysis Monte-Carlo Simulation

Before using this functionality, Users must build a common Profile at the **Root /Top Node** (This acts as a 'Master' from which all other Node profiles can be derived).

It is recommended that **support@riskhive.com** is contacted as this is quite a complex set up to the first time.

The key steps are:

- 1. Set up the Default Profile Definition.
- 2. Set up the Current Node Profile Definition.
- 3. View the risk profile from the Risk Profile Definition and adjust if necessary individual or multiple risk profiles.

5.10.1.4.1. Default Profile Definition

To build the common profile, select Default Profile Definition.



Figure 236 – Cost Profile Definitions Editor

You must set up your default, Period | Risk Value | Period Date Format and the Max Period Count.

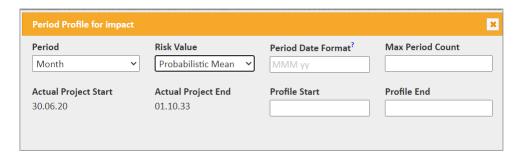
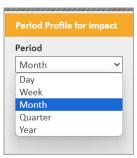


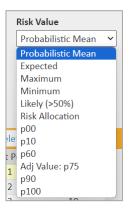
Figure 237 – Default Period Profile for Impact Editor

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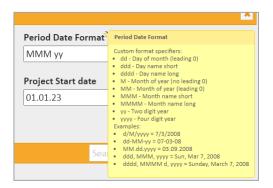
Period: Select the Period Profile you wish to report. E.g., if you want the profile to display in Months, select Months.



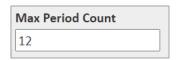
Risk Value: Select the Risk Value that you wish to be displayed and used for the risk profile.



Period Date Format: You can determine the Date Format, used on the graphs, from the options available. These can be found by clicking on the blue question mark.



Max Period Count: This determines the number of periods that are shown in the graph. To ensure that the graph remains legible, it is recommended that no more than 12 periods are entered in this field. This value should not be more that the number of periods you create.



Profile Start | Profile End: Unless you are going to run risk profile simulations at the top node level, you can leave these blank.



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Now the individual periods and profiles must be defined. Select **New** within the editor and the following panel will appear.



Figure 238 – Default Period Profile - Edit Project Period

In the example below, 10 periods have been created, each with a project percentage of 10%. The dates will automatically be calculated based on the start date of the project and the period selected. In the screen shot below, the period selected was Month and the start date of the project is the 01.01.23, hence the first period date being 01.01.23.

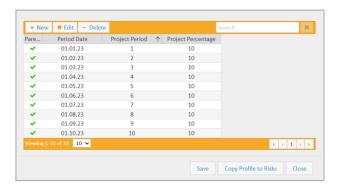


Figure 239 – Default Period Profile - Individual Period Profiles

Note: At this stage all project nodes will inherit the default profile.

5.10.1.4.2. Current Profile Definition

If your project requires a different profile to that of the default, this is adjusted within the **Current Node Profile Definition.**

When you select this option, the following screen will appear:



Figure 240 - Current Node Profile Definition - Editor

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The summary column provides an indication if any of the Common (Inherited from the default) periods have been edited.

To edit the profiles, click on the Cost Impact and select **Edit**.

The Period Profile editor will appear, and you can alter any of the parameters for that project. In the example below, the Period has been changed to Quarter, the Max Period Count changed to 8 and the Profile Start and End dates have been assigned. These can be different to the Actual Project Start and End dates.

Note: The Max Period Count cannot be larger than the Default Period Count.

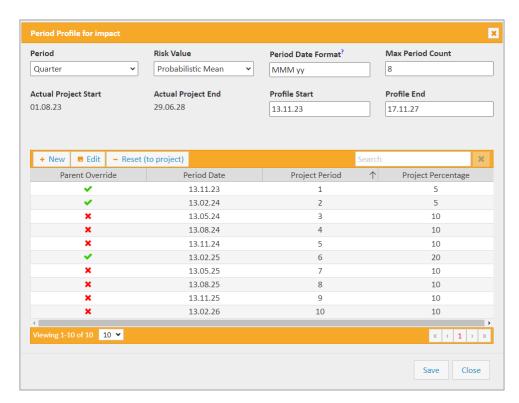


Figure 241 – Current Node Profile Definition - Editor for Impact

When completed your changes, select Save.

5.10.1.4.3. Risk Profile Definition

To view the risk profile, first select from the main grid, which risks you wish to have included in the profiling, using the selection functionality.

Once the risks have been selected, select Risk Profile Definition from within the Analysis Monte-Carlo Simulation Tool



Figure 242 - Risk Profile Definition

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The selected risks profile graph will be displayed, with the Risk Profile Values data table below.



Figure 243 – Risk Profile Definition – Graph and Data Tables

Code: This is the risk code.

Node: This is the Node (project) in which the risk sits.

Scenario: This is the scenario showing. To change the scenario view, select **Configure** at the bottom of the page.

Value Selection: This the Risk Value Type as selected within the Project Period Definition Editor.

Source Values: This is value at the time of viewing of the value selection.

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Total: This should always be 100%. If the value is more than 100% the cell will be Red, and if less than 100%, the cell will be coloured yellow.

Date Columns: These will be based on the Project Start Date, or the Actual Start Date, if a Project Start Date has not been entered in the Project Period Definition Editor.

Total: This the total of values within the data table.

5.10.1.4.3.1. Risk Profiling Individual Risks

Once the risk profile has been built, you can edit the individual risk profile. This can be done by selecting either the **Edit** button or the **Multi-Edit** button.



Figure 244 – Risk Profile Definition – Edit and Multi-edit options

Edit Button

Selecting the Edit Button, this will open the Period Profile for Impact Editor. Here you can change the profile for the single risk selected, or you can copy the updated profile to a selection of risks.

In the example below, the individual risk C0137 had its risk profile stat date changed.

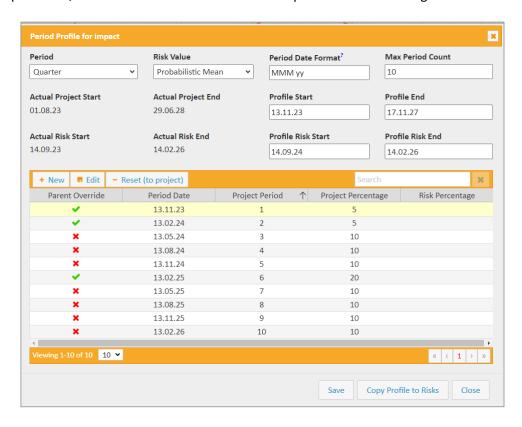


Figure 245 – Risk Profile Definition – Individual risk profile editor

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This change will result in the profile for that risk being displayed.

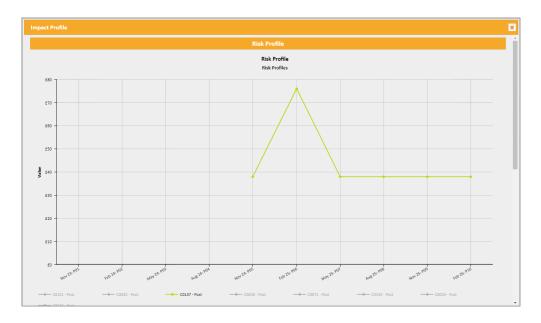


Figure 246 – Risk Profile Definition – individual Risk Profile (edited)

The changes for risk profile values now follow the project percentages. In the table below, the % total is now showing 70%, hence it is highlighted in yellow.



Figure 247 – Risk Profile Definition – individual Risk Profile Data Table (edited)

Depending on your requirements, you may need to update the risk profile percentages, to equal 100%.

If this is the case, you would need to edit the individual risk percentage within **Period Profile for Impact Editor.**

Note: You will need to close the Impact Profile window and re-open to refresh the data.

Multi-Edit button

The Multi-Edit button allows you to on a single interface change the individual risk profiles for the risks selected.

If you change the values for a specific risk, you must complete all the fields, as an empty field will assume the common profile value.

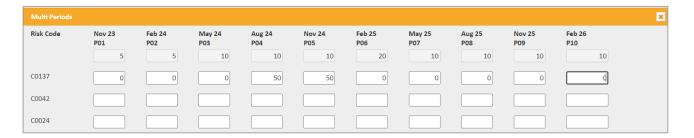


Figure 248 - Multi-Edit Period Editor

Changes made from this editor will be automatically shown in the graph, upon the closing of the multieditor

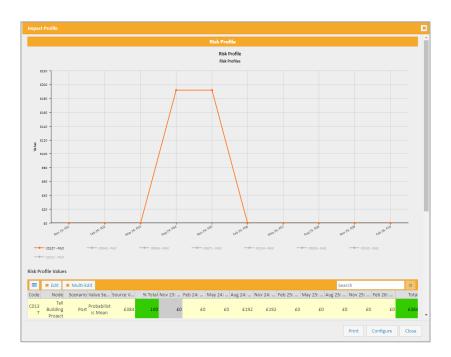


Figure 249 - Risk Profile - Updated graphic post multi-edit applied

When running a CRA, the risk profile information can also be seen by selecting the **Toggle Profile** button. This will display the **Summary Cost Period Profile**, the **Individual Risk Cost Period Profile** and the Summary Cost Period Profile data table.

You are able to edit individual risks direct from the data table.

Note: The toggle Profile button will only appear if the risk profile functionality is configured in your system.



Figure 250 – Risk Profile – as displayed in CRA

5.10.1.5. Schedule Analysis

Schedule analysis can be used to understand time impacts on a given project. The scheduler will show the activities in the programme Work Breakdown Structure (WBS).

You can also connect risk information of project activities to the baseline schedule which will enable you to run a Schedule Cost Analysis (SCA). This will provide you with sensitivity information of individual project activities to assess the potential impact of uncertainty on the final project duration and cost.

You have 3 options when using the Schedule Cost Analysis function:

Option 1: You can either create a WBS first and then assign risks to the WBS.

Option 2: Run an SCA on selected risks without creating a WBS.

Option 3: Run an SCA on selected risks and later create a WBS and assign previously selected risks to the newly created WBS.

5.10.1.5.1. Creating a WBS and assigning risks

Select the Schedule Cost Option, from within the Schedule Cost Analysis Section within the Analysis Monte Carlo Simulation Editor.



Figure 251 – Schedule Cost Analysis – Schedule Cost

5.10.1.5.2. Adding Project Phases and Tasks

To add in your Project Phases, right mouse click on the Programme and select Add Child.

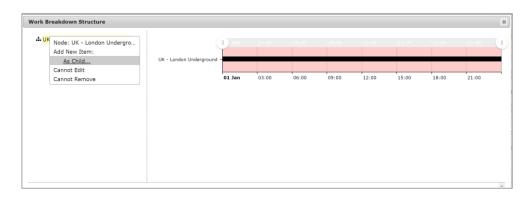


Figure 252 – Schedule Analysis panel – adding Phases (step 1)

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The system will prompt you for a 'Phase Name'.

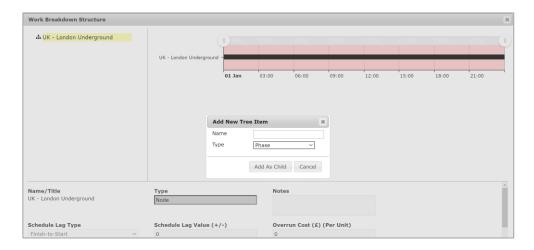


Figure 253 – Schedule Analysis panel – adding Phases (step 2)

Type in the Phase Name and select **Add as Child.** You can create as many 'Phases' as you wish, as per the example below:

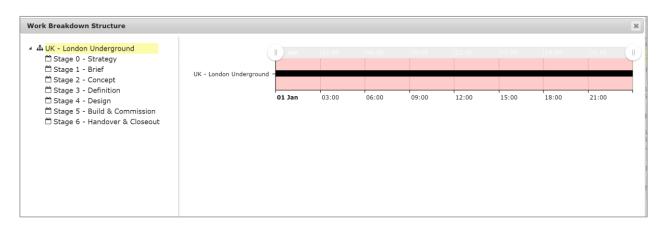


Figure 254 – **Schedule Analysis** panel – adding Phases - example

Once you have built your phases, you can add **Tasks** to your schedule. In the same way as adding a **Phase**, right mouse click on the **Phase** to which you wish to add your task and create your **Task**.

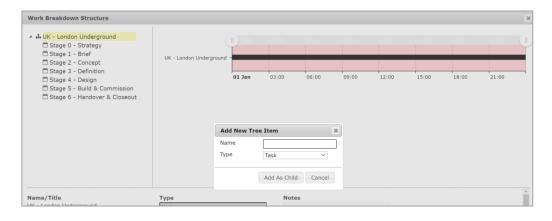


Figure 255 – Schedule Analysis panel – adding Tasks

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In the example below, there are 2 Tasks created for Stage 2 of the Project and a Task and Sub-task created for Stage of the Project. You can add as many tasks as necessary and as many 'levels' of tasks. However, it is recommended that you remain as high level as possible – just enough to get value add information from the schedule analysis, but not so much that you end up trying to replicate schedule information that you probably hold in a specifically designed schedule tool.

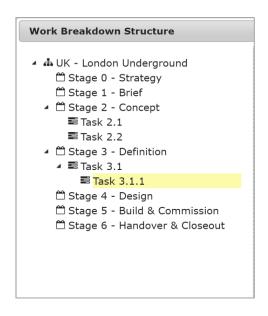


Figure 256 – Schedule Analysis panel – adding Tasks (example)

Once you have built your Project Schedule, select **Save Changes** and the Gantt chart to the right will automatically build.

The default 'build' will assign a 1-day lag to each **Phase**, until you assign appropriate lag timeframes to each line item.

Note: The 1-day lag will not show in the field until the record has been saved.

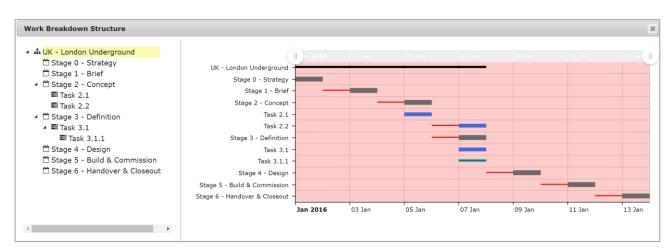


Figure 257 – Schedule Analysis panel – default Gantt prior to adding Phase Periods

The black bar is the time period for the overall project or programme.

The grey bars denote the individual phases of the project or programme.

The thin red lines denote the lag times for the phase or task.

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The thick dark blue lines denote the associated tasks and their duration.

5.10.1.5.3. Building the Schedule Analysis – Assigning Schedule Lag Times

To assign **duration** and **uncertainty** to each Phase and/or task select the **Edit** button on the bottom left-hand side of the panel. This will bring up a new window – **Quantitative Assessment**.

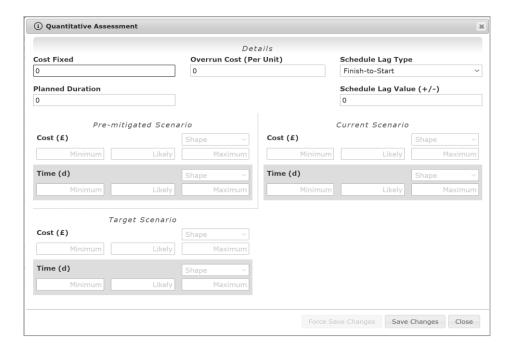


Figure 258 – Quantitative Assessment panel

In this panel, you can assign fixed costs to a phase or task, overrun costs, the phase or task time period and quantitative cost and time uncertainty for the different scenarios.

It is important, if you wish to use the Schedule Risk Analysis (SRA) that you complete the uncertainty, as a minimum for **Time**.

Schedule Lag times can be assigned by Finish-to–Start or Start-to-Start.

Finish-to-Start is a logical relationship in which the next activity cannot **start** until the predecessor activity has **finished**.

Start-to-Start is a logical relationship in which the next activity cannot **start** until the predecessor activity has **started**.

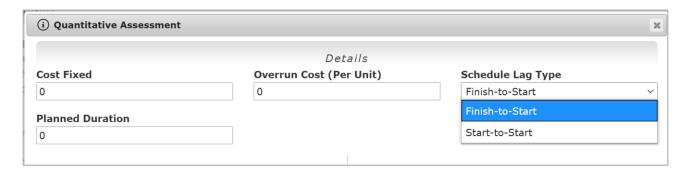


Figure 259 - Schedule Lag Type - Options

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The Schedule Lag Value allows you to allocate the time delay between 2 phases or tasks.

The lag times are represented in the Gantt chart by a thin red line.

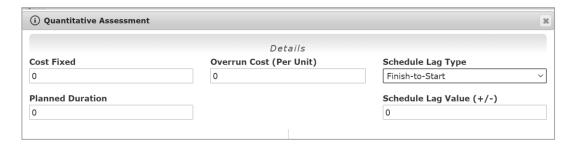


Figure 260 – Schedule Lag Value

The Planned Duration (days) should be completed so that each subsequent Phase/Task can be allocated to a time period. Each time you save the entries, the Gantt chart will rebuild to reflect those entries.

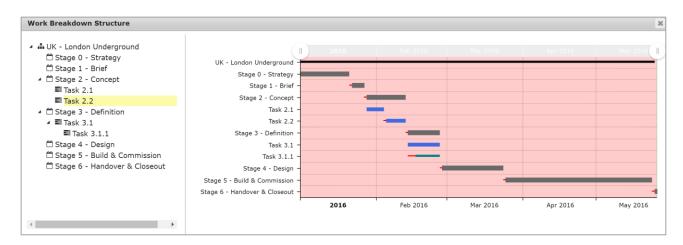


Figure 261 - Schedule Analysis panel

Hovering over any of bars in the Gantt chart, will bring up an information panel. In the example below you can see that Stage 2 – Concept lasts for 16 days, from the 28.01.2016 to 13.02.2016.

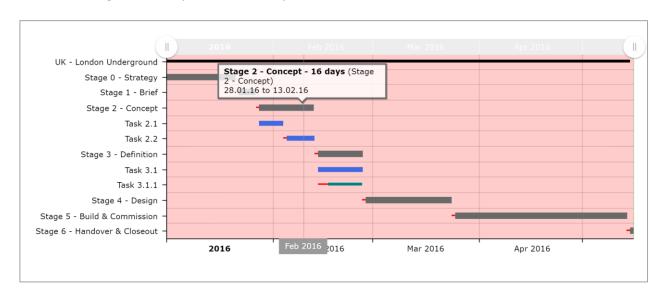


Figure 262 – Schedule Analysis panel – hover over information

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5.10.1.5.4. Building the Schedule Analysis – Assigning Risks

If you wish to link your risk information into the Schedule Analysis, you add these into the schedule, in the same manner as adding Phases or Tasks, except that you select the Risk option when adding a new tree item.

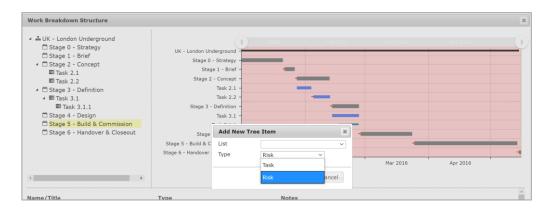


Figure 263 - Schedule Analysis panel - adding risks

When you select **Risk** the option to select any of the risks entered for that project are available.

The **Risks** are relative to the end of the associated **Phase** or **Task**, and as such these could have a positive or negative impact on the end date of that **Phase** or **Task**.

Note: A risk can only be selected once. Once that risk has been selected, the next time you add a risk, only the remaining risks will appear in the drop down.

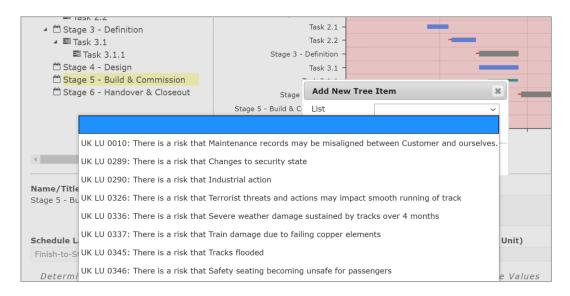


Figure 264 – Schedule Analysis panel – risk selection

You can run the SRA simulation at any time during the building of your schedule so you can see quickly and easily the potential overrun of your project from the Risk Adjusted Gantt chart.

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5.10.1.5.5. Schedule Cost Append

If you wish to run an SCA without creating a WBS, first select the risks on the main grid that you wish to include in the SCA.

Then, select the Schedule Cost Append option, from within the Schedule Cost Analysis Section within the Analysis Monte Carlo Simulation Editor.



Figure 265 – Schedule Cost Analysis – Schedule Cost Append

The following message will appear, select Yes, Save.



Figure 266 – Schedule Cost Append – Add selected risks

The list of the selected risks will appear.



Figure 267 – Schedule Cost Append – Confirming risk selection

Run the SCA, by selecting the **Schedule Cost** option.

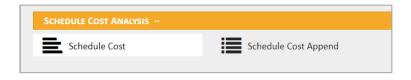


Figure 268 – Schedule Cost Analysis – Schedule Cost

Note: At this stage there will be no phases or tasks. You add these later should you wish to do so.

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The risks will be associated with the Project node, as per the screen shot below:

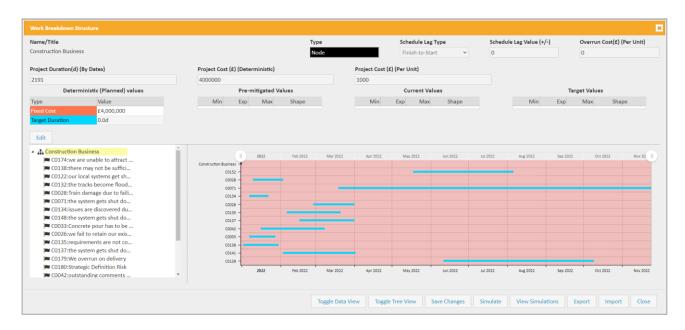


Figure 269 - Schedule Cost Analysis - WBS (risks only)

To remove a risk, right mouse-click on the appropriate risk and select remove item.

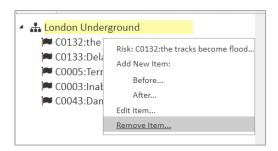


Figure 270 – Schedule Cost Analysis – Removing a risk from the WBS

Note 1: You must remember to save your changes prior to closing the main WBS panel.

Note 2: If you have not included Phases and/or tasks, the risks will be relative to the end of the associated project.

You can now run your SCA by selecting Simulate option at the bottom of the panel.

5.10.1.5.6. Adjusting the Schedule Cost Analysis

As you add new risks to your register, you may wish to include these within future SCA's.

To add risks, select the risk(s) you wish to be added and click on the You can add additional risks by Schedule Cost Append option.

The following message will appear, select Yes, Save.



Figure 271 – Schedule Cost Append – Add risk confirmation

The list of the selected risks will appear and will be added to the SCA.

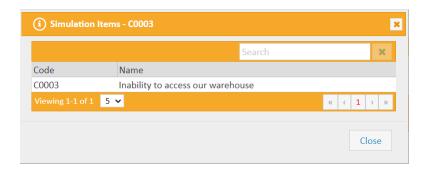


Figure 272 – Schedule Cost Append – Add risk selection

Note: Only additional risks will appear in this list, therefore if you have accidently selected a risk that already exists in the SCA, this record will not appear in the displayed list of Simulation Items.

5.10.1.5.7. Adding Phases and/or tasks to an existing WBS containing only risks

If you have created an SCA using only risks (I.e., you have not created Phases and/or Tasks and wish to do so). This can be done either by manually adding the risks to the Phase and/or Task (Refer to Section 6.1.10.5.1.1 Adding Project Phases and Tasks) or by selecting the risks on the grid and using the Schedule Append functionality. If you use the latter functionality, this will add all the risks to the bottom of the WBS and you will need to drag and drop the risks into the appropriate area of the WBS.

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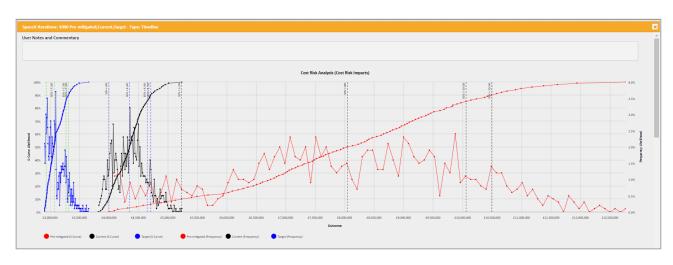
5.10.1.5.8. Schedule Risk Analysis Simulations

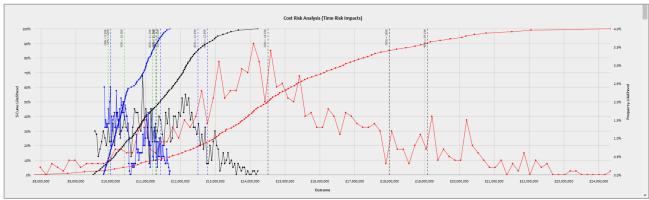
To view the Simulation, click on the **Simulate** button at the bottom of the panel.

Just as with the Cost Analysis functionality, you can select any combination of scenario and the number of iterations.

This builds the following report:

The top three graphs show the Fixed Cost information (Cost, Time and combined Cost and Time)





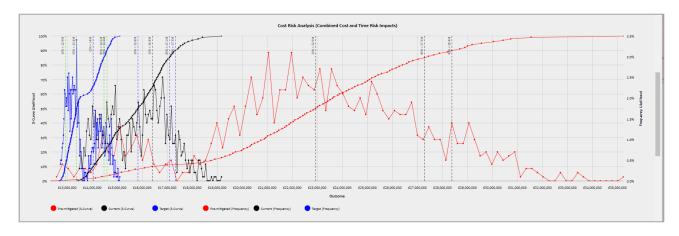
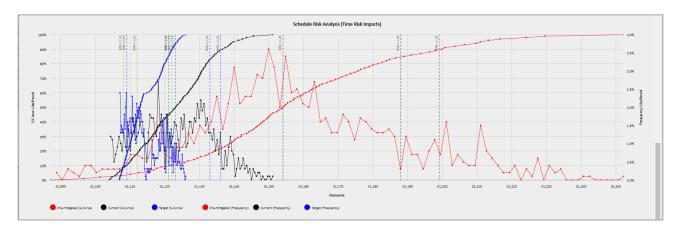


Figure 273 – Simulation Outputs – Fixed Cost Graphs

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The bottom two graphs show the Schedule Risk Analysis (Time Risk Impacts) and the Joint Cost and Schedule Risk Analysis (Combined Cost vs Schedule Outcomes).



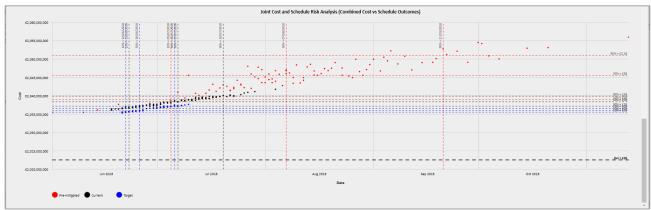


Figure 274 – Simulation Outputs – Schedule Risk Graphs

As with the CRA, you can select **Submit Analysis** to generate commentary and/or generate a profile type tagged as submitted or rejected.

Selecting the **Toggle Graphs** option, changes the top three graphics to display the data using the adjusted project (node) value.

5.10.1.5.9. Phase Results & Schedule Gantt

Whilst you can select all three scenarios to build the CRA and SRA, to see the detailed scheduled Gantt, Cost and Time Tornados and Data tables, you need to select a specific **scenario** at the bottom of the display page. If you selected only one scenario at the start of the simulation the following additional information will automatically appear.

- Simulation Output (Data Table)
- Schedule Gantt
- Schedule Results (Data Table)
- Time Tornado
- Risks Schedule Simulation Outcomes (Data table)
- Cost Tornado

If you wish to view the output as a histogram, select the **Toggle Histograms** button at the bottom of the page.

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Simulation Output (Data Table)

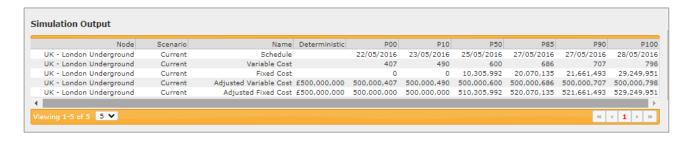


Figure 275 – **SRA Report** – Simulation Output Data Table

The Simulation Output provides the data information for the selected scenario for each of the graphs at the P0, P10, P50, P85, P90 and P100.

The Schedule Gantt

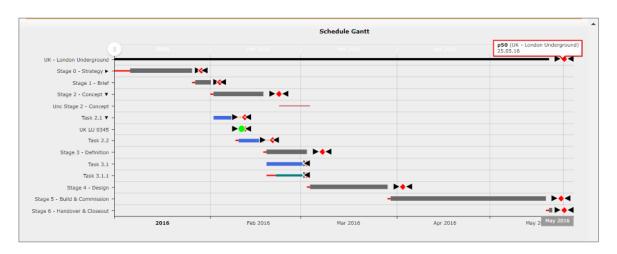


Figure 276 - SRA Report - Schedule Gantt Chart

The data is graphically displayed in the Schedule Gantt. In the example above, the red diamond represents the P50. For the whole project, the P50 is 25/05/16. (Refer to Figure 188 – SRA Report – Schedule Results (Data Table)).

As with the Gantt chart in the Schedule Panel, you can hover over the areas in the Gantt to obtain the schedule details for each item. It will also indicate the impact at P10, P50 and at P90 estimates.

The black arrows indicate the P10 and P90 estimates, whilst the Red arrow indicated the P50 estimate.

By clicking on the arrow in the Project Menu to the left, you can also display the risks. These are denoted by a green circle.

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Schedule Results (Data Table)

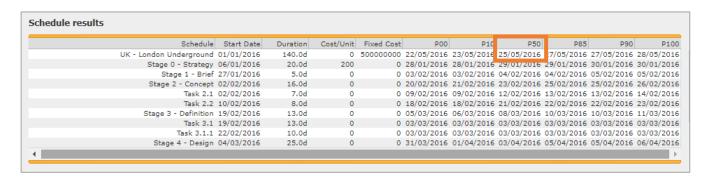


Figure 277 - SRA Report - Schedule Results (Data Table)

The table above the Schedule Gantt provides information regarding the Schedule, Start Date, Duration, Cost Unit and Fixed Cost and the schedule variations.

Time Tornado

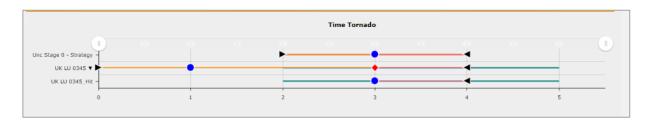


Figure 278 – Time Tornada Results

This displays the time (at the various P estimates) horizontally and ordered (within each phase)

If you wish to understand the data regarding risk schedule information, refer to the data table **Risk Schedule Simulation Outcomes (data table)**

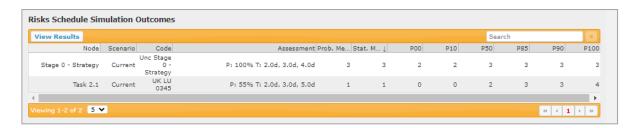


Figure 279 – **SRA Report** – Schedule Risk Data Table

Cost Tornado

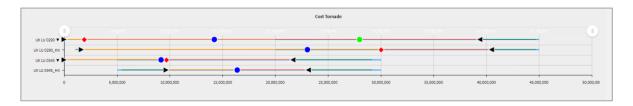


Figure 280 - SRA Report - Cost Tornado

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The cost tornado displays the costs (at the various P estimates) horizontally and ordered (within each Phase) so that the highest impact appears at the top of the chart, the second largest appears second from the top and so on.

The range displayed are from P0 to P100. However, by expanding the risk information (by clicking on the arrow on the risk) you can also see the range excluding P0 and P100.

Risk Cost Simulation Outcomes (Data Table)

This table provides the data supporting the Cost Tornado.

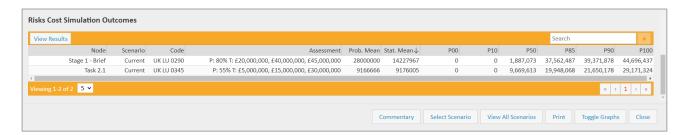


Figure 281 – SRA Report – Risk Cost Simulation Outcomes (Data Table)

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5.11. Refresh

Refer to Section 6.9.22 for details.

5.12. Revert Sort

There are occasions where either the Administrators or Users may make major or extensive changes to the grid view to run targeted reports. Once this work has been completed, you have the option to select **Reverse Sort.** This reverts the main grid sorting back to its initial configuration.



Figure 282 – The **Revert Sort** button

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5.13. Risk Summary/Review

Risk Commentary
Created
19.08.21

This is a comment that I am adding on

(9)

The **Risk Summary/Review** pane enables users to view a summary of a selected risk, review that risk, edit changes and sign-off. There is also the option to print a copy of the risk. Select a risk and then select the button.

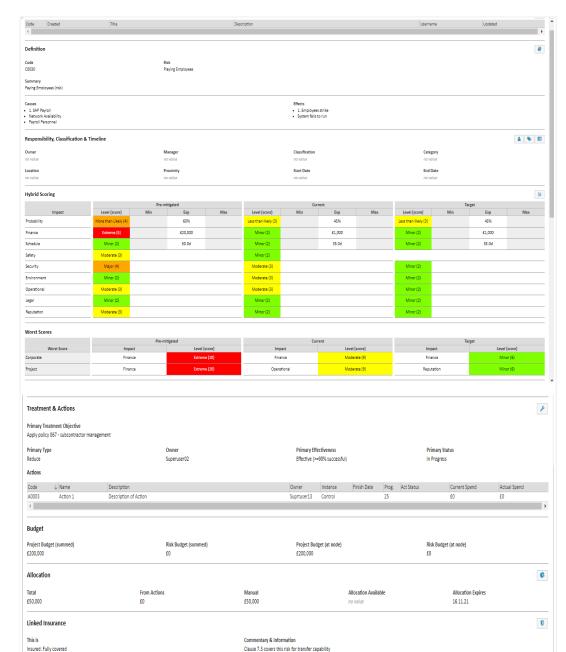


Figure 283 – The Review pane

9

< Previous Sign Off... Next > Edit... Print Close

The size of the **Risk Summary/Review** window is adjustable. Select the left side of the review window and drag to the required width.

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Each section is editable via buttons. This pane is semi-configurable by riskHive support. This enables sections to be added, re-ordered, or removed, hence the deployed pane may appear differently. The standard sections are: Review Record, Definition, Cause and Effect, Responsibility, Classifications, Timeline, Scenarios, Impacts, Treatment, Actions, Budget, Allocation, Insurance and Commentary. In addition to the standard sections there are: Custom Arrays (if your organisation has made use of this functionality).



The **Risk Reviews** section is automatically populated if you have selected the 'Sign Off' button at the bottom of the risk review page and records who and when the risk was 'Signed-Off'. You can edit the risk reviews if necessary.



The **Definition** button enables you to update the Risk Title, Causes and Effects.



The **Edit Responsibility** button enables you to update the risk owner, risk manager and stakeholders connected with the risk.



The **Edit Classification** button enables you to update the Classification, Location, Category, and custom fields.



The **Edit Timeline** button enables you to update the Node, Proximity, Start and End Date as well as other time related fields.



The **Edit Qualitative Assessment** button enables you to update Pre-Mitigated, Current and Target Scenarios.



The **Edit Quantitative Assessment** button enables you to update Pre-Mitigated, Current and Target Scenarios.



The **Edit Treatment and Actions** button enables you to update the Primary Treatment and individual actions.



The **Edit Allocation** button enables you to update the budget for the risk, the date when the allocation will be available and expires.



The **Insurance** button enables you to update the insurance status and add commentary.



The **Commentary** button enables you to add commentary for your risk reviews and/or edit previous comments.



The **Edit Custom Arrays** button enables you to update any custom arrays configured for the application. This will only appear if your organisation has made use of this functionality.

Each section can be saved individually when making changes.

You can use the **Sign-off** option to record this risk has been reviewed. The Description section of the Sign-off panels enables you to add comments which will be later displayed at the top of the **Risk Summary/Review** pane.

The **Previous** and **Next** options will display the previous or next risk in the list on the main screen.

The **Edit** option will open the **Edit** pane where detailed changes to this risk can be made.

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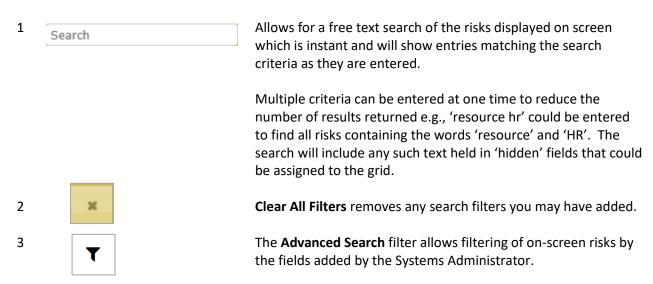
5.14. Searches and Filters

At the top right side of the main screen are the search and filter options.

NOTE: Searches will be conducted on the risks displayed on the screen, therefore it is important to select all nodes/risks that are to be searched first and display these on the main screen before running the search functions.



Figure 284 - The Search facility



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6. The Main grid

6.1. Sorting data within the columns

Users may order the lists of risks in ascending or descending value based on their column selection. For instance, if a User wants to view risks by **Class**, by **Location** or by **Owner** etc. then they simply need only click on the **column headers**. Multiple sorts can be conducted by selecting the first column, holding down the Shift key and selecting the next column (small arrows will appear to show the direction of the sorting).

2. Risk Dication Esc. Level Code Node Risk Cat. Alloca.. Queen Elizabeth II **₽** C0009 Ü Change There is a risk that USA customer is well established and has a mature ordering system which is not aligned to our UK ordering system. North Level1-Corporate Operational Corporate Helen Mirren £8,955 There is a risk that Several core suppliers could struggle to produce key products and meet delivery dates. **△ 2⁴** A Level1-Corporate Infrastructur C0007 Operational Corporate Asia - China 3.

Figure 285 - Selection by column headings

6.2. On-screen Symbols

As you begin creating and editing risks, you will notice symbols appear. Here are the common symbols (providing these columns are displayed on screen):

Info column		Emoticons		Monitor	
•	Quarantined risk (the risk is not yet approved)	Ô	Great	•	This risk is being monitored
•	Active risk (The risk is approved)	©	Good		
0	Attested risk (The risk has been confirmed as true)	©	OK		
0	Retired (the risk is no longer a threat)	6	Bad		
=	This risk belongs to a Group Parent	Ô	Terrible		
•{	This risk can display a Bowtie graph				
!≡	This risk has Actions Risk is restricted				

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7. The Lower Grid Control Bar

7.1. Number of Risks on a Page

On the bottom left of the screen the system will indicate the number of risks being displayed and provide options on how many the User would like to see per page.



Figure 286 – Risk number

7.2. Set Font Size

If you wish to increase the font size, click on the **single arrow**.

To increase the font to its maximum size, click on the **double arrow**.

To reduce the font size (after you have increased it) click on the A.



Figure 287 – Adjustment of the font size

7.3. Page Navigation Bar

On the bottom right of the screen are the **page navigation buttons** to move through the screens.

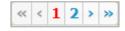


Figure 288 – Page navigation buttons

If **All** risks are selected for display on the bottom left, the page navigator on the right will become inactive and default to showing '1' page. The scroll bar on the right-hand side of the screen can be used to move through the risks.

By selecting the column headings, the data beneath will be re-ordered by prioritising based on the Users selection.

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8. How do I?

8.1. Apply Changes To Multiple Risks

If you have previously selected several risks you can decide to apply the same changes to all the risks or, edit the risks individually.



Figure 289 – The Single or Multiple Changes Options

By selected **Single Merged**, any changes you make will be applied to all the risks you have selected. So, for example, if you change the **Next Review** date, it will apply your changes to all the risks.

Equally, you can decide to edit the risks individually. By selecting **Multiple Individual**, if you wanted to edit the qualitative data, you would select **Assessment**, then **Qualitative** and a panel will appear showing all the qualitative assessments of the risks:



You can then make your changes, select Save Changes and all the risks will be updated.

8.2. Move a Single Risk

To move an individual risk, select the risk and then the **Edit** button Select the **Position & Timeline** option. Changing the **Project Node** will move the risk to the selected register.

8.3. Move up to 4 risks

To move an individual risk, select the risk and then the **Edit** button

Ensure the option **Single Merged** is selected at the top of the panel.

Select the **Position & Timeline** option. Changing the **Project Node** will move the risks to the selected register.

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8.4. Selecting Individual or Multiple Risks Using The Keyboard

To select an individual risk, click once with the left mouse button on the risk row on the main screen.

To select a range of risks that are in consecutive order, select the first risk, hold down the **Shift** key then select the last risk.

To select risks randomly, select the first risk, hold down the **Control** key the select the next risk. Keep the control key held down until all risks are selected.

8.5. Apply Changes to Multiple Actions

To apply changes to multiple actions, select the actions you wish to multi-edit and select the edit button.

A single Action panel will be displayed. Where information matches across the records selected, this information will show in those fields.

In the example below, 3 actions were selected. The owner (Ian Baker) is showing as he is the named owner for all those actions. The same is true of the Implemented value, where all three actions were at 0% implemented.

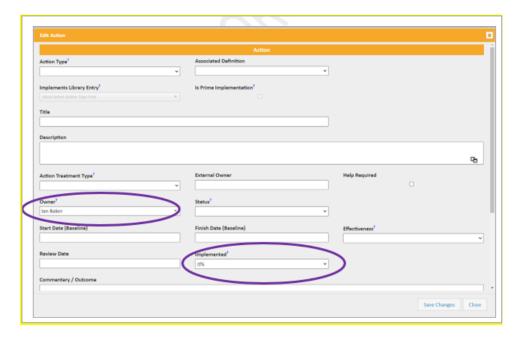


Figure 291 – Action Editor

You can now edit any of these fields and those changes will be reflected in all three actions.

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8.6. Data Validation Checks

Sensitivity checking takes place when using the quantitative and/or hybrid assessment panel. A prompt will show as a red box around the field that you are being asked to complete. The sensitivity checks apply to the Shape and the Value fields as demonstrated by the screen shot below.

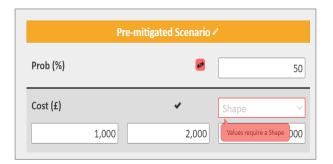




Figure 292 – Data Validation Checks

The system will now re-calculate the scores for all the risks you have selected.

8.7. View And Tag Restricted Risks

To view anything regarding restricted risks a user must have "Restricted" permission. Restricted permission may only be assigned by administrators.

Restricted risks are not displayed by default on the main grid. This is to avoid the possibility of sensitive risks showing on an unattended screen. A permitted user must request to see restricted risks from the "Grid Settings" control.

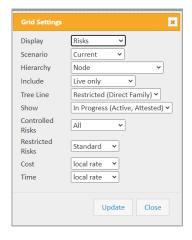


Figure 293 – Grid Settings – Restricted Risks Filter

Here the user selects Restricted Risks - "Restricted" or "All" the main grid will then allow such risks to be listed.

Restricted risks can be identified by the 2 icon within the info column.

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Figure 294 – Main Grid showing restricted Risks

To tag a risk as restricted or un-tag, use the "Is restricted" field within the "Audit and Review" panel. Note this selection field only appears if a user has "Restricted" permission, otherwise it is hidden.

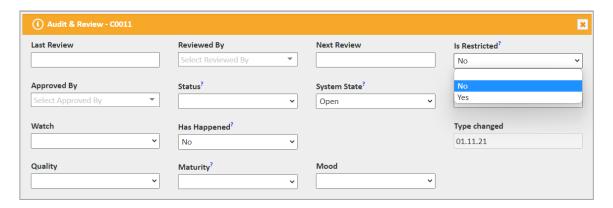


Figure 295 – Audit and review Tagging risk as "Restricted"

8.8. Plug In Translator

If you wish to have your screen translate your information from one language to another, follow the steps below:

Go to Google home page: https://www.google.co.uk/

To the right of the address bar, select the **Customize and Control Google Chrome** button:

From the drop-down list, select **Settings**.

Select **Extensions** from the left-hand side.

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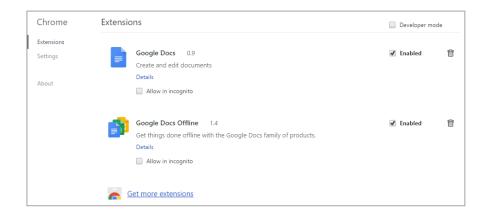


Figure 296 – The Extensions panel in Google

Select Get more extensions.

In the Search bar (top left of screen), type Translate. Translation options should appear.



Figure 297 – The Google Translate option

Select Add to Chrome. The following panel will appear:

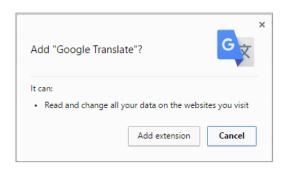


Figure 298 – The Google Translate option

Select Add extension. The following panel will appear:

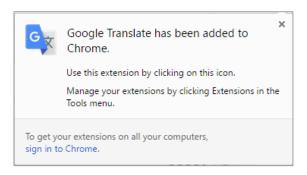


Figure 299 – The **Confirmation** notice

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The translation plug-in has now been added to Chrome (although it can be added to any browser).

To the right of the address bar, you will see the **Google Translate** button:



Select the button and the following panel will appear:



Figure 300 – The **Translation** panel

Select Translate this Page.

Directly underneath the button, another bar will appear:

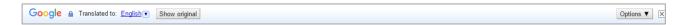


Figure 301 – The Translation bar

Select the hyperlink **English** (or the down arrow next to it).



Figure 302 – All languages

Select the language you wish to view and **Translate**. All the on-screen text and text within panels and drop-down menus will now show in your new language.

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8.9. Update My Risk Scores Having Changed The Project Cost Data

If you are using dynamic scoring and you change any of the budget fields (Project / Risk Reference / Risk Budget) having once created risks in that project, they system does not currently automatically 'update' the relative risks scores. The user must carry out a 'forced' update to all those records.

You can do the following either on a risk-by-risk basis, or by selecting all the risks in that register. To force the changes, complete the following steps:

- 1. Select the risk(s) and use the split screen functionality.
- 2. Select the Hybrid scoring panel to show on the split screen. Note: If you have selected more than one risk the values will appear as blanks.
- 3. Press 'Save changes' in the top right-hand side of the panel.



Figure 303 – The **Translation** bar

The following message will appear:



Figure 304 – The **Translation** bar

4. Select 'Yes, Save Changes.

8.10. Search functions within panels

On the top right of most panels is a search option: Filter entries...

To search for a function, type the name i.e., type 'qualitative' and the Qualitative options will appear.

Not only will the system try to find an exact match to what is in the filter, but also other words associated with what you are looking for i.e., type 'Actions' and the Treatment panel will appear.

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8.11. Dynamic Search For Roles

Dynamic searching is available on drop downs for all roles and responsibilities. Entering individual characters or a character string into the selection box down selects to the users that contain those characters or string. This is particularly helpful if you have a long list of names in any one drop down.



Figure 305 - Dynamic Search

8.12. Tool Tips

Sometimes the **Tool Tips** can be extensive. Using **Tool Tips** are a convenient way of reducing information in work instructions by having these available in the system. By clicking on the hint icon, a new dialogue panel will appear with the full tool tip text. These are available for all drop down lists.

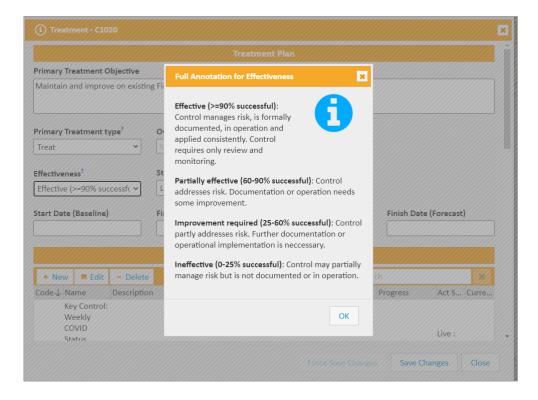


Figure 306 – Tool Tips Dialogue Panel

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8.13. Toast Messages

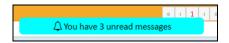
Toast messages are temporary message that will appear depending on actions carried out.

Below are some examples. Toasts will include a text message for information purposes.

Green Toast: The green toast message will appear in the bottom RH side of the panel showing you that Changes have been saved successfully.



Light Blue Toast: The light blue toast indicates that you have messages unread in your ERM message box.



Blue Toast: A blue toast indicates either an activity has been cancelled or the request is processing and you need to wait until the process is complete before taking further action on the system.





Yellow Toast: A yellow toast is a warning message and will generally show when the server is busy. Server speed is not generally within the control of riskHive, as this relates to the speed of the internet / browser.



Red Toast: A red toast indicates an error of some sort. Should this occur, Users should go to System Help and download the log from both the Event Log and Client Error Log and send these to support@riskhive.com for investigation.



Black Toast: The black toast indicates that you may be dealing with latency issues and generally relates to the speed of the internet / browser. This stops users editing additional data until the last edit has been processed by the server.



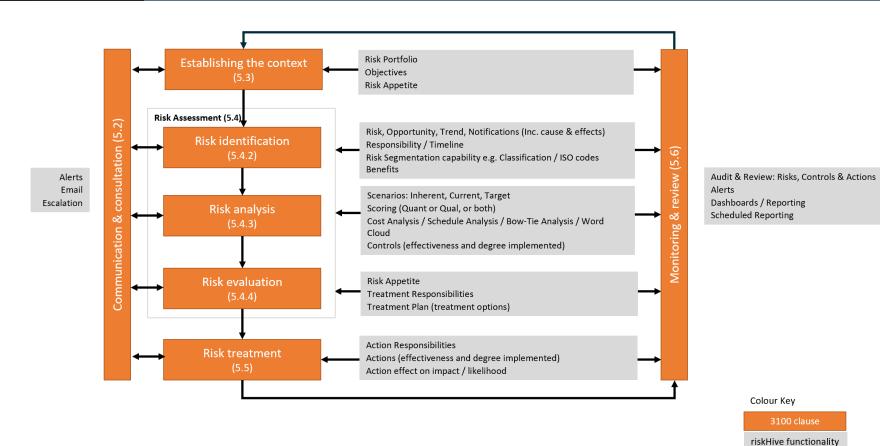
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9. Appendix 1

9.1. 6.1 ERM and the ISO31000 framework



riskHive functionality mapped to ISO 31000 Processes (Clause 6)



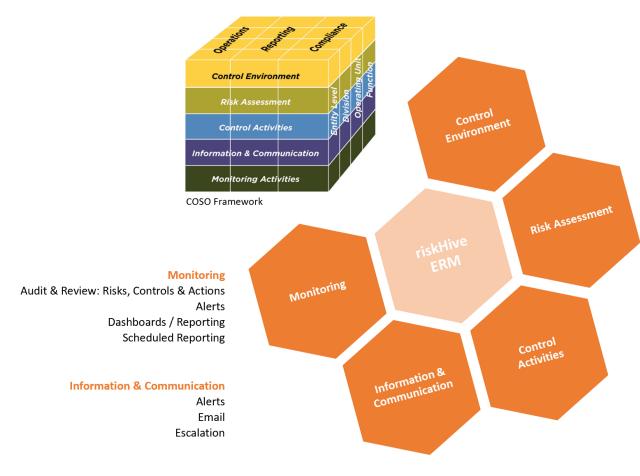
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9.2. 6.2 ERM and the COSO framework



riskHive functionality mapped to the COSO Framework



Control Environment

Risk Portfolio

Risk Appetite

Risk, Treatment and Actions Ownership Responsibilities

Risk Assessment

Objectives

Risk, Opportunity, Trend, Notifications (Inc. cause & effects)

Responsibility / Timeline

Risk Segmentation capability e.g. Classification / ISO codes

Benefits

Scenarios: Inherent, Current, Target

Scoring (Quant or Qual, or both)

Cost Analysis / Schedule Analysis / Bow-Tie Analysis / Word Cloud

Control Activities

Controls (effectiveness and degree implemented)

Treatment Plan (treatment options)

Actions (effectiveness and degree implemented)

Action effect on impact / likelihood

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