HOPEX IRM Desktop

HOPEX V3



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HOPEX IRM - Common FeaturesUser Guide

HOPEX V3



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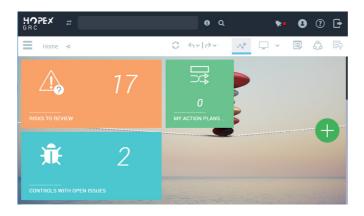
ABOUT THE IRM MANAGER DESKTOP

The HOPEX IRM (Integrated Risk Management) desktop is a unique access point for risk, control and/or incident managers.

It is available with the following solutions:

- HOPEX Enterprise Risk Management,
- HOPEX Internal Control
- HOPEX LDC
 - **HOPEX Internal Audit** does not have access to the **HOPEX IRM** desktop.

The menus and features displayed depend on the solution(s) used.



Dashboard

This section from the navigation menu enables you to add widgets specific to risk and control management:

- Risks by Status
- Risk Assessment
- Risk Reduction
- Risk Heatmap (Aggregated)

My Tasks

Assessment

- · Questionnaires to Answer
- Questionnaires to Review (to validate)
- Assessment Sessions Due to Close

Execution

- · Checklists to Complete
- · Checklists To Reassign
 - This menu applies to **HOPEX Internal Control** only. For more information on check-lists, see "Executing controls".

Review

- Incidents to Review
- Risks to Review
 - **▶** The objects to review are the objects which need to be validated.

Testing

- Activities
- Vacation Requests
- Time sheets
- Expenses
 - This menu applies to **HOPEX Internal Control** only. For more details on testing, see "Control Testing".

Action plans

- · Actions to implement
- · Action plans to implement
- Recommendations to implement

My Environment

See "Managing your IRM Environment".

Libraries

See "Managing IRM Object Libraries".

Assessment

See "Managing Assessment Campaigns".

Execution

See "Executing controls".

This navigation menu section is available with **HOPEX Internal Control** only.

Testing

See "Control Testing".

This navigation menu section is only available with **HOPEX** Internal Control.

Accessing the IRM Manager Desktop

To connect to HOPEX, see **HOPEX Common Features**, "HOPEX desktop", "Accessing HOPEX (Web Front-End)".

In **HOPEX IRM**, there are profiles associated to specific activities.

The menus and commands available depend on the profile with which you are connected.

Profiles used in IRM solutions

Risk Manager

The Risk Manager is responsible for executing the following tasks on risks within his/her responsibility domain:

- identifying risks
- carrying out direct assessments
- managing assessment campaigns
- defining action plans
- analyzing and following report creation

For more details, see "Managing Risks".

Internal Control Director

The Internal Control Director:

- has all internal Controller rights
 - ► See "Internal Controller".
- validates campaigns
- prepares test plans
- validates action plans

For more details, see "Managing Controls". HOPEX Internal Control

Incident and Loss Administrator

The Administrator has rights on all objects and workflows.

He prepares the working environment and creates elements required for management of incidents and losses.

Manages:

- users and assignment of profiles.
- description of the environment: org-units and organizational processes, regulatory environment, IT resources.

Can intervene in:

- declared incidents
- · action plans and actions

For more details, see "Collecting Incidents".

GRC manager

The "GRC Manager" profile is available if you have access to more than one solution among:

- HOPEX Internal Control (IC),
- HOPEX Enterprise Risk Management (ERM)
- HOPEX LDC.

It groups the following profiles (if you have the relevant solutions):

- Risk Manager
- Internal Control Director
- Incident and Loss Administrator

Internal Controller

The internal controller:

- defines controls
- prepares assessment campaigns
- executes tests (create work programs, create issues and action plans)
- validates and follows up action plans

GRC functional administrator

The GRC functional administrator has the same rights as the GRC Manager. In addition, he is offered global administration features (such as user management).

The GRC functional administrator:

- has rights on all objects and workflows.
- prepares the working environment and creates elements required for risk and control management.
- manages:
 - description of the environment, including org-units and processes
 - the regulatory environment
 - IT resources
 - users and assignment of profiles.

IRM Profiles/Solutions Summary

Solutions/	ERM	IC	LDC
Profiles			
GRC functional administrator	X	Χ	X
GRC manager	X	Χ	X
GRC Contributor	X	Χ	Χ
Risk Manager	X		

Internal Control Director		X	
Internal Controller		Χ	
Incident and Loss Administrator			X
GRC Contributor	X	X	Χ

THE IRM DOCUMENTATION

The IRM documentation is structured as follows:

Features common to IRM solutions

- "Managing your IRM Environment"
- "Managing IRM Object Libraries"
 - Managing the Regulatory Library
 - Managing Action Plans
 - For risk and control management, see HOPEX Enterprise Risk Management and HOPEX Internal Control documentations.
- "Managing Assessment Campaigns"
- "IRM Reports"
 - For information on risks/controls/incidents, see:
 - "Report Related to Risks".
 - "Reports Related to Controls"
 - "Reports Related to Incidents"
- "IRM solution workflows"

HOPEX Internal Control

- "Managing Controls"
- "Executing controls"
- "Assessing controls"
- "Control Testing"
- "Reports Related to Controls"
- "Managing Issues and Action Plans"

HOPEX Enterprise Risk Management

- "Managing Risks"
- "Assessing Risks"
- "Report Related to Risks"

HOPEX LDC

- "Collecting Incidents"
- "Reports Related to Incidents"

MANAGING YOUR IRM ENVIRONMENT

This section explains how to view your environment in the **HOPEX IRM** (Integrated Risk Management) desktop.

Certain types of environment objects or characteristics presented can be used in some of the solutions only.

- ✓ The Organization
- ✓ Risk Environment
- ✓ Control Environment
- ✓ Regulatory Environment
- ✓ RACI responsibilities

THE ORGANIZATION

The enterprise organization is structured around the following concepts:

Entities: see Managing EntitiesProcesses: Managing Processes

Business lines: Managing Business Lines
 Applications: Managing Applications

Managing Entities

An entity can be internal or external to the enterprise: an entity represents an organizational element of enterprise structure such as a management, department, or job function. It is defined at a level depending on the degree of detail to be provided on the organization (see org-unit type). Example: financial management, surface management, marketing department, account manager. An external entity represents an organization that exchanges flows with the enterprise, Example: customer, supplier, government office.

Accessing organization entities

To define the list of entities of your organization, **HOPEX** allows you to create the enterprise organizational chart.

To access the different organization entities:

In the HOPEX IRM desktop, click My Environment > My Organization > My Entities.

The list of entities making up the organization is displayed.

The list of entities owned by an entity is accessible in the properties of the entity, in the **Characteristics** page, section-**Sub-Entities**.

Creating an entity

To create a new entity:

- In the HOPEX IRM desktop, click My Environment > My Organization > My Entities.
- Open the properties page of the entity that owns the entity to be created.
- **3.** In the **Sub-Entities** section, click **New**. The entity creation page appears.
- Enter the entity Name and click OK.
 The new entity appears in the list.
- **5.** Open the properties page of the entity created.
- **6.** If necessary, modify the **Parent Entity**, which corresponds to the level in the tree at which you wish to create your entity.
 - The **Parent Entity** field is automatically calculated according to the position of the entity in the tree.

- 7. Specify the **Level** of the entity in the organization:
 - "Division"
 - "Department"
 - "Service".
- 8. Specify the **Status**, "Active" or "Inactive" of the entity.
- **9.** When completed, click **Save** or select another tab in the properties dialog box to carry out further modifications.

Risk assessor

To indicate the person responsible for risk assessment on the entity:

- In the Risk Assessor field of the entity property page, select the person concerned.
 - You must specify this field in the context of risk assessment by campaigns with **HOPEX Enterprise Risk Management**.
 - This field is available only with the solutions **HOPEX Enterprise Risk Management** and **HOPEX Internal Control**.

Scope section

An entity can intervene in the framework of a process. It can be broken down hierarchically.

An entity can be connected to different component types.

- Entities: you can specify the entity responsible for a service or management, as well as functional dependency between two entities.
- **Business Processes** and **Organizational Processes** for which the entity intervenes. For more details, see Managing Processes.
- Risks, whose management is assigned to the entity. For more details, see Managing Risks.
- Controls, whose management is assigned to the entity. For more details, see Managing Controls.
- Objectives and Requirements assigned to the entity. For more details, see All Objectives and Consulting Requirements.
 - Certain key documents, such as strategic plans, the business plan, annual reports, economic analyses and other relevant documentation related to the organization and its aims may be consulted to define its **objectives** and **requirements**.
- Business Lines for which the entity intervenes. For more details, see Managing Business Lines.
 - ► Depending on your rights, you may also see the **Action Plan** or incidents owned by the entity.

Managing Processes

Available process types are:

business processes

A business process represents a system that offers products or services to an internal or external client of the company or organization. At the higher levels, a business process represents a structure and a categorization of the business. It can be broken down into other

processes. The link with organizational processes will describe the real implementation of the business process in the organization. A business process can also be detailed by a functional view.

organizational process

An organizational process describes how to implement all or part of the process required to make a product or handle a flow.

The type is requested at creation of the process. The two types are distinguished by different icons in the trees and lists.

Accessing processes

To access the business processes tree:

In the HOPEX IRM desktop, click My Environment > My Organization > My Processes.

Columns display:

- The total of sub-processes, entities and business lines performing processes
- The applications involved in each process.

Creating a process and sub-processes

To create a process:

N Right-click the "Process" folder and select **New**.

To create a sub-process:

Right-click a process from the tree and select **New**.

To modify the list of sub-processes of a given process:

Open the process property pages and click Characteristics > Subprocesses.

If you expand the folder of a process, you can display the sub-processes owned by the current process.

Specifying process scope

To view/modify the list of entities or business lines performing a process:

- **)** Open the properties of the process and select:
 - Characteristics > Scope > Entities, or
 - Characteristics > Scope > Business lines

To view or modify the list of applications supporting a process:

Open the properties of the process and select Characteristics > IT > Applications.

Process characteristics

To access characteristics of a process:

Open the Characteristics page of the process properties.

Business process control is the responsibility of persons with different functions.

- the Owner is responsible for global operation of the process in terms of effectiveness, profitability and security,
- the Responsible person takes decisions concerning evolution of the process, and informs on progress,
- the Risk Assessor is consulted when an action relating to risks is planned or executed on the process.
 - The Risk Assessor field is available only with the solutions HOPEX Enterprise Risk Management and HOPEX Internal Control.

To specify business process control responsibilities:

- In the Characteristics page of a business process properties, position the mouse on the Owner field for example and enter the first letters of the name.
- 2. Click the arrow at the right of the field and select **List Persons**. The name of the selected person appears in the field.
 - A person is defined by his/her name and e-mail. The person can access an application after assignment of a connection identifier. One or several business roles can also be assigned.

Scope section of a process

A process can be linked to different component types.

- Entities that intervene in the process framework. For more details, see Managing Entities.
- Business Lines that use the process services. For more details, see Managing Business Lines.
- Risks that relate to the process. For more details, see Managing Risks
- Controls that relate to the process. For more details, see Managing Controls.
- Incidents
- Action Plans
- Regulations For more details, see Managing the Regulatory Library.
- Control Systems
 - A control system is a set of controls that ensure risk prevention and management, application of internal operating rules, respect a law or regulation, or work towards achievement of an objective as defined by company strategy. Examples: quality control system, management control system, internal audit system.

Other sections of a process

The properties page of a process presents the following sections:

- RACI: to present the persons responsible for the process. For more details, see .
- Objectives and Requirements: for more details, see All Objectives.
- **IT**: IT resources are made available to processes to execute the operations necessary for their implementation. For more details, see Managing Applications.

Managing Business Lines

A business line is a skill or grouping of skills of interest for the enterprise. It corresponds for example to major product segments, to distribution channels or to business activities.

The business lines overview presents the different businesses carried out by the enterprise.

Accessing business lines

To access the different organization business lines:

In the HOPEX IRM desktop, click My Environment > My Organization > My Business Lines.

From this page you can view trees of business lines of the organization, consult their properties and create new objects.

The list of business lines owned by a business line is accessible in the properties page of the business line, section **Sub-Business Lines**.

To access characteristics of a business line:

Expand the Characteristics section of the properties pane of the business line that interests you.

Specifying business line scope

A business line can be implemented by:

- Org-Units: for more details, see Managing Entities.
- Applications: for more details, see Managing Applications.
- Risks

A business line can be connected to different component types by, for example, **Business Processes** and **Organizational Processes**, which use services of the business line. For more details, see Managing Processes.

Defining gross incomes in HOPEX LDC

The **HOPEX IRM** desktop enables the Incident and Loss Administrator to enter gross incomes for the organization so as to perform a BIA analysis.

For more details on this report, see BIA Approach.

Gross Incomes are linked to business lines.

To create a gross income:

- 1. Click My Environment > My Organization > Gross Incomes.
- 2. Click **New** and open the property page of the income created.
- 3. Select a **Business Line** in the corresponding field.
- 4. Select a **Begin Date** and **Date Date** to define a time period.
- 5. Enter a Revenue Amount.

Managing Applications

An application is a set of software tools coherent from a software development viewpoint.

Accessing applications

To access applications:

In the HOPEX IRM desktop, click My Environment > My Organization > My Applications.

Columns display:

- The number of sub-applications
- The number of supported business processes
- The number of business lines which depend on each application

Specifying application scope

You can indicate which IT application is available for an entity or used in execution of a process.

To view / edit the list of business processes supported or business lines:

- Open the properties of the application and select:
 - Characteristics > Scope > Business process, or
 - Characteristics > Scope > Business lines

You can attach numerous others objects in the **Scope** section of the application properties:

- Risk
- Control
- Control System
- Action plan
- Incidents
 - ► Implemented Functionalities can be accessed in read-only mode only.

RISK ENVIRONMENT

To analyze a risk, it is necessary to take into account all the elements of the environment.

Describing Risk Environment

To describe the objects which make up the environment of a risk:

In the HOPEX IRM desktop, click My Environment > Risk Environment.

You can define:

- Risk Types
 - A risk type defines a risk typology standardized within the context of an organization.
- Risk factors
 - A risk factor is an element which contributes to the occurrence of a risk or which triggers a risk. Several Risks can originate from a same Risk Factor Examples: the use of a hazardous chemical product, the complexity of an application, the size of a project, the number of involved parties, the use of a new technology, the lack of quality assurance, the lack of rigor in requirements definition...
- Risk consequences
 - A risk consequence can be positive or negative. It is associated with a type, which enables its characterization, for example: image, environment, employees.
- Objectives
 - An objective is a goal that a company or organization wants to achieve, or is the target set by a process or an operation. An objective allows you to highlight the features in a process or operation that require improvement.

Defining the Environment of a Specific Risk

To define the environment for a specific risk:

 In the Characteristics page of the property window of a risk, expand the Analysis section.

A risk is characterized by:

- Risk types
 - A risk type defines a risk typology standardized within the context of an organization.
- Risk factors
 - A risk factor is an element which contributes to the occurrence of a risk or which triggers a risk. Several Risks can originate from a same Risk Factor Examples: the use of a hazardous chemical product, the

complexity of an application, the size of a project, the number of involved parties, the use of a new technology, the lack of quality assurance, the lack of rigor in requirements definition...

Risk consequences

A risk consequence can be positive or negative. It is associated with a type, which enables its characterization, for example: image, environment, employees.

Incidents

An incident is an event occurrence, internal or external, that has an impact on the organization. It is the basic element for collection of data concerning operational risk.

Control systems

A control system is a set of controls that ensure risk prevention and management, application of internal operating rules, respect a law or regulation, or work towards achievement of an objective as defined by company strategy. Examples: quality control system, management control system, internal audit system.

Associated Risks

Risk Types

A risk type defines a risk typology standardized within the context of an organization.

A risk type enables risk characterization. For example, a risk type can be regulatory, legal, technical, etc.

To create your own risk types:

- In the HOPEX IRM desktop, click My Environment > Risk Environment > All Risk Types.
- 2. In the pop-up menu of the "Risk Type" folder, select **New**.
- Enter the name of the risk type and click OK.The new risk type appears in the navigator menu tree.
 - ► Similarly, you can create a sub-risk type from a risk type.

Risk Factors

Many risk factors are defined within the framework of international, national or inter-professional regulations, or within the enterprise itself.

A risk factor is an element which contributes to the occurrence of a risk or which triggers a risk. Several Risks can originate from a same Risk Factor Examples: the use of a hazardous chemical product, the complexity of an application, the size of a project, the number of involved parties, the use of a new technology, the lack of quality assurance, the lack of rigor in requirements definition...

With each risk, you can associate one or more risk factors, sources of risks that have intrinsic potential to endanger organization operation. For example, dangerous chemical products, competitors, governments, etc.

Risk Consequences

To define consequences associated with a risk:

- In the risk page, **Analysis** section, **Risk Consequences** tab, click **New**. The consequence creation page appears.
 - Since a risk consequence can relate only to a single risk, the **Risk** field is already entered with the current risk.

The consequence created appears in the list of consequences associated with the risk.

CONTROL ENVIRONMENT

To describe control environment:

In the HOPEX IRM desktop, click My Environment > Control Environment.

All Control Types

Controls can be defined by referencing the control types defined in the risk and control system concerned.

A control type allows the classification of controls implemented in a company in accordance with regulatory or domain specific standards (Cobit, etc.).

For each control type, the sum of sub-control types and controls is computed.

To view sub-control types and controls:

• Click the + sign of the control type of interest.

To remove and/or connect controls from/to a control type:

 Open the control type properties and select Characteristics > Controls.

All Accounts

Characteristics available on the account are:

Account type

The revenues and losses account presents a description of profits and losses of the enterprise during the fiscal period. You can specify if the account is:

- "Revenues"
- "Losses"
- **Total Value**: you can enter a total for this account.
 - An order of magnitude is sufficient.
- Status
 - "Open": the account is active
 - "Closed": the account is inactive
 - ★ The account can comprise sub-accounts.
 - ► You can connect an entity to an account in the **Scope** section of the account.

All Objectives

The hierarchy of objectives in your organization appears in a tree.

An objective is a goal that a company or organization wants to achieve, or is the target set by a process or an operation. An objective allows you to highlight the features in a process or operation that require improvement.

To create an objective:

Right-click the "Objectives" folder or on an objective and select **New**.

The number of controls contributing to the achievement of each objective is displayed in the corresponding column.

To view and edit the list of contributing controls:

Open the objective properties and select the Characteristics > Scope > Controls.

REGULATORY ENVIRONMENT

► To specify the legal inventory, see Managing the Regulatory Library.

The legal inventory constitutes the regulation framework repository applying to an organization. The regulation framework comprises:

- regulations
 - A regulation or policy is a set of directives, compulsory or not, defined by a government in a law, by standard bodies as "best practices" or as an internal policy in an organization.
- requirements

A requirement is a need or expectation explicitly expressed, imposed as a constraint to be met within the context of a project. This project can be a certification project or an organizational project or an information system project.

Consulting Requirements

To consult requirements:

In the HOPEX IRM desktop, select My environment > Regulation Frameworks.

You can use this tree to view:

- Whether requirements apply to the organization
- Which controls implement these requirements

Columns display:

- The number of sub-requirements
- The number
 - Of entities
 - Of processes
 - Of applications

Specifying Requirement Scope

To connect a constrained element to a requirement:

- In the HOPEX IRM desktop, select My environment > Regulation Frameworks.
- Open the requirement properties and select the Characteristics > Scope.

For each requirement, the number of immediate requirements and constrained elements appear.

RACI RESPONSIBILITIES

HOPEX Solutions enable definition of those responsible for some of the objects via the RACI matrix.

RACI is the acronym of Responsible, Accountable, Consulted, Informed.

Responsibility levels

The proposed responsibility levels are as follows:

Responsibility	Meaning
Responsible	Persons responsible for execution of required actions.
Accountable	Persons reporting on progress of planned actions and making decisions. There is only one "Accountable" for each action.
Consulted	Persons consulted as first priority before an action or decision.
Informed	Must be informed after an action or decision.

HOPEX enables specification of the responsibility level of the various persons:

- on a business or organizational process,
- on a risk,
- on a control.

Specifying Responsibilities

One or various persons can take responsibility for a specific object.

To specify the persons concerned by a specific object:

- 3. In the object properties page, expand the **RACI** section.
- **4.** Connect the persons or person assignments in each of the following tabs:
 - Responsible
 - Accountable
 - Consulted
 - Informed.
 - In some solutions, RACI information can be redundant with roles defined in the object property dialog box or can supplement them.

For example, in HOPEX Enterprise Risk Management, the process responsible user can be specified directly in the Responsible field of the process property dialog box and not in the RACI section. In this case, it is important to specify one responsible user only.

Managing your IRM Environment RACI responsibilities

Managing IRM Object Libraries

The **HOPEX IRM** (Integrated Risk Management) desktop enables you to manage risk, control, regulatory requirement, incident and action plan libraries.

The following section describes the libraries used across all solutions.

- "Managing the Regulatory Library"
- "Managing Action Plans"

Risks and control libraries are described in the **HOPEX Enterprise Risk Management** and **HOPEX Internal Control** documentations respectively:

- "Managing Risks"
- "Managing Controls"
 - To consult elements which apply to your organization, see "Managing your IRM Environment", page 11.

Managing the Regulatory Library

The purpose of the regulatory library is to manage the regulation framework applying to an organization.

HOPEX enables creation of this regulatory library, generally derived from an external source (for example, the American Bankers Association).

Regulations and requirements can be organized by process, entity and risk.

Regulatory Library Overview

Regulatory library content

The regulatory library constitutes the regulation framework repository applying to an organization. It consists of:

- regulation frameworks
 - A regulation framework is a set of directives, compulsory or not, defined by a government in a law, by standard bodies as "best practices" or as an internal policy in an organization.
 - For more details, see "Managing Regulation Frameworks", page 29.
- requirements
 - A requirement is a need or expectation explicitly expressed, imposed as a constraint to be met within the context of a project. This project can be a certification project or an organizational project or an information system project.
 - For more details, see "Defining Requirements", page 32.

Updating the regulatory library content

The regulatory library is generally supplied by external sources.

The functional administrator imports the following on a regular basis:

- · regulation frameworks
- requirements (first and second level)

To execute import:

- In the main Menu, select **Import**.
 - For more details on the import tool, see **HOPEX Common Features** guide, "Exchanging Data with Excel".

Legal Inventory Objects

Legal Inventory Context

Regulation Frameworks and requirements can be organized by:

- process (business or organizational)
- entity
- risk

Regulation frameworks and requirements can be:

- connected to risks and to all levels of processes and entities
- connected to several processes, entities and risks

Legal Inventory Hierarchy

Legal inventory repository objects are managed as follows:

Legal Inventory

- Regulations
 - Requirements (1st level)
 - Requirements (2nd level)
 - Risks
 - Controls

The GRC functional administrator manages the hierarchy of the legal inventory and can connect regulations and requirements to processes, entities and risks.

Managing Regulation Frameworks

A regulation framework is a set of directives, compulsory or not, defined by a government in a law, by standard bodies as "best practices" or as an internal policy in an organization.

Accessing regulation frameworks

To access regulation frameworks:

In the HOPEX IRM desktop, select My environment > Regulation Frameworks.

A tree showing regulation frameworks appears.

Regulation framework characteristics

You can specify:

- Code: enables unique identification of the regulation
- Application Begin Date
- Application End Date

Accessing Requirements

A requirement is a need or expectation explicitly expressed, imposed as a constraint to be met within the context of a project. This project can be a certification project or an organizational project or an information system project.

Via a list

To access all requirements in the form of a list:

In the HOPEX IRM desktop, click Libraries > Regulatory Library > All Requirements.

From the drop-down list you can select:

- All Requirements
- High Priority Requirements

By implementing controls

To view requirements implemented by Controls:

In the HOPEX IRM desktop, click Libraries > Regulatory Library > By Implementing Controls.

Drop-down lists display:

- Requirements implemented by Controls
- Requirements not implemented by Controls

Number of constrained elements

To view requirements constraining the organization:

In the HOPEX IRM desktop, click Libraries > Regulation Library > By Constrained Elements.

The list displays the number of elements to which the requirements apply (processes, entities, applications).

You can also display requirements not constraining the organization through the drop-down list.

By non-compliance risks

This list displays requirements showing non-compliance risks.

In the HOPEX IRM desktop , click Libraries > Regulation Library > By Non-Compliance.

The following lists are displayed:

Requirements with non-compliance risks

Lists requirements linked to risks

Requirements with deficient controls

Lists requirements linked to implementing controls having open issues

Requirements with Unexecuted Controls

Lists requirements implemented by one or more controls with an execution rate below 90%.

By Incidents Against Constrained Elements

Lists requirements with constrained elements at Risk where incidents occurred.

The columns display:

- the number of incidents against the elements constrained by the requirement
 - This concerns open incidents.
- the date of the last incident occurrence
- the number elements constrained by the requirement

Creating Requirements

The GRC functional administrator can create requirements.

A requirement is a need or expectation explicitly expressed, imposed as a constraint to be met within the context of a project. This project can be a certification project or an organizational project or an information system project.

To create a requirement:

- In the HOPEX IRM desktop, click Libraries > Regulation Library > By Regulatory Framework.
- In the tree which appears, right-click the regulation framework and select New.

You can now specify the various characteristics from the properties window.

► For more details, see "Defining Requirements", page 32.

Defining Requirements

Different sections are available in the properties of a requirement.

► To access requirements, see "Accessing Requirements", page 30.

Code

The code enables unique identification of the requirement.

Parent requirement

This is the requirement to which this requirement is attached.

Regulation framework

A regulation or policy is a set of directives, compulsory or not, defined by a government in a law, by standard bodies as "best practices" or as an internal policy in an organization.

For more details on regulations, see "Managing Regulation Frameworks", page 29.

Priority

Priority can be:

- Low
- Medium
- High

Analysis

Risk factors

A risk factor is an element which contributes to the occurrence of a risk or which triggers a risk. Several Risks can originate from a same Risk Factor Examples: the use of a hazardous chemical product, the complexity of an application, the size of a project, the number of involved parties, the use of a new technology, the lack of quality assurance, the lack of rigor in requirements definition...

- Event type Basel (level 1)
- Event type Basel (level 2)

Responsibilities

HOPEX IRM enables definition of responsibilities of each participant related to a requirement via the RACI matrix.

For more details, see "", page 8.

Scope

The **Scope** section of requirement properties enables connection of requirements to other objects:

process can also be detailed by a functional view.

processes

A business process represents a system that offers products or services to an internal or external client of the company or organization. At the higher levels, a business process represents a structure and a categorization of the business. It can be broken down into other processes. The link with organizational processes will describe the real implementation of the business process in the organization. A business

Organizational processes

An organizational process describes how to implement all or part of the process required to make a product or handle a flow.

Entities

Business

An entity can be internal or external to the enterprise: an entity represents an organizational element of enterprise structure such as a management, department, or job function. It is defined at a level depending on the degree of detail to be provided on the organization (see org-unit type). Example: financial management, sales management, marketing department, account manager. An external entity represents an organization that exchanges flows with the enterprise, Example: customer, supplier, government office.

Risks

A risk is a hazard of greater or lesser probability to which an organization is exposed.

Risk types

A risk type defines a risk typology standardized within the context of an organization.

Applications

An application is a set of software tools coherent from a software development viewpoint.

Sub-requirements

In the properties of a requirement, the **Sub-requirements** section enables you to define second-level requirements (or sub-requirements).

Milestones and Statuses

In the properties of a requirement, the **Milestones and Status** page enables to specify:

- **Expiration Date-Term of Adjustment**: this is the date limit by which the requirement must be fulfilled.
- Creation date: date on which the requirement was created.
- Last Update: this is the date on which the last import was made.
- Official status (from import)
 - To be validated
 - Validated
 - Updated
 - Deleted
 - Regulations and requirements are never deleted automatically. If a regulation/requirement is obsolete, status passes to "Deleted".

• Internal status

You can indicate if the requirement:

- is To be assessed
- has already been Assessed
- N/A

Managing Action Plans

► To use action plans within the framework of **HOPEX Internal Control**, see "Managing Issues and Action Plans", page 107.

All Action Plans

All action plans

Displays all action plans.

My action plans

Displays the action plans you own.

Delayed action plans

Displays the action plans where Planned End Date is overdue.

My delayed action plans

Displays the action plans you own and where Planned End Date is overdue.

Action Plan by Scope

Action plans managing Incidents

Displays action plans whose scope contains at least one incident.

For more details on managing incidents, see "Collecting Incidents".

Action plans implementing controls

Displays action plans whose scope contains at least one control.

Action Plans remediating issues

Displays action plans whose scope contains at least one issue.

Action plans mitigating risks

Displays action plans whose scope contains at least one risk.

MANAGING ASSESSMENT CAMPAIGNS

The IRM solutions (Integrated Risk Management) allow you to assess controls and risks through assessment campaigns.

- √ "Introduction to Assessment by Campaign"
- √ "Accessing Assessments by Profiles"
- √ "Accessing Assessment Templates"
- √ "Risk and Control Campaign Assessment"
 - ► You can also directly assess risks and controls, without using questionnaires. See "Direct Assessment" in HOPEX Enterprise Risk Management and HOPEX Internal Control documentation.
 - For more details on assessment reports, see "Assessment Follow-Up Reports".

INTRODUCTION TO ASSESSMENT BY CAMPAIGN

The **HOPEX IRM** Desktop enables assessments on your risks or controls using standard questionnaires. In this way you can improve effectiveness of your internal control systems and minimize your risks.

Assessment questionnaires are sent by electronic mail to the appropriate addressees using customizable deployment modes.

What is assessment?

Assessment is a mechanism enabling sending of questionnaires to an identified population to obtain assessments (qualitative or quantitative) on identified objects. The assessment is then supplemented by results analysis tools.

Assessment sessions and campaigns

•	assessment sessions
	An assessment session is an assessment carried out over a determined time period. When an assessment session is published, an assessment form containing questions is sent to targeted users.

· assessment campaigns

An assessment is based on concepts:

An assessment campaign enables creation and planning of several assessment sessions over a given time period.

An assessment session is defined by its **scope** and a **questionnaire template.**

The scope of an assessment session is defined by the objects to be assessed, the context of the assessment, and the list of respondents.

Questionnaire templates and questionnaires

Assessment *questionnaires* are sent to appropriate *respondents* .

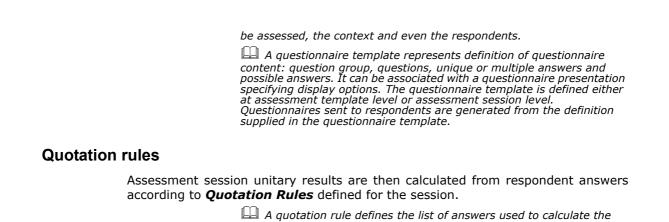
An assessment questionnaire is a list of questions relating to) ā
particular object and addressed to users.	

A respondent is a person in the enterprise questioned in the context of the assessment. This person should complete the assessment questionnaire and return it.

Questionnaires of an assessment session are described in a *questionnaire template* defined:

- directly in the assessment session:
- in an assessment template.

The assessment template defines the assessment scope, the questionnaire template to be used, and if required, the aggregation schemas to be applied for interpretation of global results. The assessment template can also supply deployment queries activated from one session to another to better determine the scope of objects to



handling the calculation.

Aggregation schemas

Assessment results are then consolidated according to one or several **aggregation schemas**.

An aggregation schema is a series of steps enabling consolidation of assessment results according to specified assessment rules.

value of an assessment characteristic. It also provides the plugIn

ACCESSING ASSESSMENTS BY PROFILES

You can access the functions of assessment campaigns from various profiles and desktops:

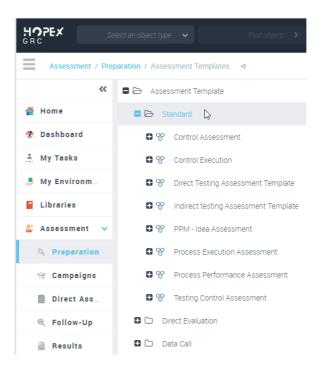
Profile	Action	Desktop
GRC functional administrator	- Assign roles to persons of the enterprise - Define the organization (entities, processes,) - Determine respondents (risk assessors for each entity)	HOPEX IRM desktop
GRC manager (Internal Controller)	- Create assessment campaigns - Create assessment sessions - Follow up assessment sessions	HOPEX IRM Desktop
GRC Contributor (Lite)	- Accept or refuse questionnaires Reply to questionnaires	GRC Contributor desktop

ACCESSING ASSESSMENT TEMPLATES

To access assessment templates:

In the navigation pane, click Assessment > Preparation > Assessment templates.

Assessment templates appear.



The assessment templates use:

- assessed characteristics
 - An assessed characteristic defines what the assessment seeks to assess. It can be associated with a MetaClass, and more specifically with one of its MetaAttributes, for example: Risk MetaClass, MetaAttribute: Criticality.
- a questionnaire template
 - A questionnaire template represents definition of questionnaire content: question group, questions, unique or multiple answers and possible answers. It can be associated with a questionnaire presentation specifying display options. The questionnaire template is defined either at assessment template level or assessment session level. Questionnaires sent to respondents are generated from the definition supplied in the questionnaire template.
 - For more details about assessment templates and their customization, see the HOPEX Power Studio Assessment documentation: "Assessment Templates".

RISK AND CONTROL CAMPAIGN ASSESSMENT

Assessment is a mechanism enabling sending of questionnaires to an identified population to obtain assessments (qualitative or quantitative) on identified objects. The assessment is then supplemented by results analysis tools.

The assessment can also be done directly on the objects, outside the assessment campaign.

For more details on the assessment mechanism, see "Introduction to Assessment by Campaign".

Questionnaires are sent via an assessment session, which corresponds to an assessment over a specified period of time.

Before creating a session, you must prepare the work environment and then create a campaign, which includes a set of assessment sessions.

Preparing the Assessment Work Environment

Pre-requisites to control assessment

Before starting a control assessment campaign, you must first prepare the work environment. Check that you have:

- connected controls to processes
- · connected processes to organization entities
 - See "Contextualizing Controls".
- defined respondents, and specified for each one the entity to which he/ she is attached as well as an email.
 - See "Specifying control responsible users".

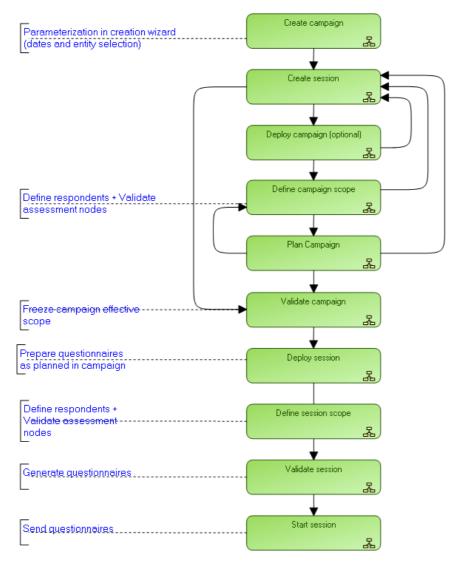
Prerequisites to risk assessment

Before starting a risk assessment campaign, check that you have:

- connected risks to at least one entity
- specified a respondent in the Risk Assessor field of the entity properties.

Assessment Campaign Workflow Steps

Below the assessment campaign workflow.



Standard Assessment Workflow

Creating an Assessment Campaign (with model)

You can create an assessment campaign:

• From a template

Creating a campaign from a template allows:

- use of the same template in all assessment sessions.
- definition and planning of sessions by distributing elements to be assessed between different sessions.

• without a template

In the case of creation of a campaign without using a template, a template can be specified at the time of creation of each session. See "Session creation mode".

To create a control or risk assessment campaign with the templates provided as standard:

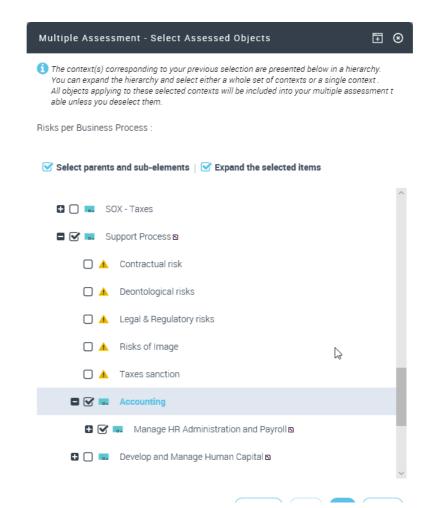
- In the navigation menu, click Assessment > Campaigns.
 The list of campaigns appears in the edit area.
- 2. Click New.

The campaign creation page appears.

- 3. Enter the name of the campaign.
- 4. Select the Assessment Template.
 - ► See "Accessing Assessment Templates".
- 5. Modify the Calendar if required.
 - The calendar serves to initialize begin and end dates of the assessment campaign.
- **6.** Specify the **Begin Date** and the **End Date**.
- 7. Click Next.

8. In the **Scope Selection** window, select the objects that define the assessment context.

The tree allows you to select controls or risks assessed *in their context*. A control or risk is assessed in the context of the elements of the branch that extends from the object in question up to the root.



In the above example, if you selected the "Accounting" process, all risks and context objects located at a lower level are selected, as well as all parent context objects up to the tree root.

- ► If you deselect a node of a branch, only the child elements of this branch are deselected.
- 9. Click Next.

10. In the preview window, click Refresh the Report.

Elements that will be assessed appear.

In particular, you can view:

- assessed characteristics (defined in the assessment template)
- assessed objects (risks or controls)
- context objects (entities, processes, etc.)
- assessment nodes which correspond to objects placed in their context objects, associated with respondents.
- respondents

11. Click **OK**.

Next step: "Creating an Assessment Session".

Creating an Assessment Session

Previous step: "Creating an Assessment Campaign (with model)"

Session creation mode

To create an assessment session:

- 1. Open the properties of the campaign and select the **Sessions** page.
- In the Assessment Sessions section, click New. The session creation wizard opens.

Within the context of a campaign with a template, the session characteristics are automatically inherited from the template defined on the assessment campaign.

When you have not defined a template on the campaign, you can define the session in one of the following modes:

- From an Existing Template: assessment is created from an existing assessment template. All information characterizing the session is described in the template.
- **In Ad-Hoc mode**: the assessment is created simply from lists to be completed so as to specify the scope objects.
- **In Expert mode**: this mode is reserved for experts who want to define queries and macros. Assessment is carried out from deployment collections constituting a first step to reuse of object lists defining a scope.

From a campaign with template

To create a session as part of a campaign with a template:

- 1. In the session creation wizard, enter the session name.
- 2. Specify when to start the evaluation session. See "Session start options".
- 3. Click OK.

You can create other assessment sessions in the same way.

The assessment sessions created will be used to plan the assessment campaign, that is to distribute between the different assessment sessions the objects to be assessed in their context. See "Planning Assessment Campaigns".

From an existing template

Within the context of a campaign without predefined template, you can apply a template to the session:

- In the session creation wizard select the From an Existing Template option and select the assessment template you want to use.
- 2. Specify assessment session dates:
 - Assessment Planned Begin Date is fixed at today's date
 - Assessment Planned End Date.
- 3. Click Next
- **4.** Select the **Perimeter** that corresponds to the object from which the object list to be assessed will be established.
- Click Next.
 A preview report of the scope calculated for the session is presented for information.
- 6. Click Next.
- 7. Specify when to start the session. See "Session start options".
- 8. Click OK.

In Ad-hoc mode

Ad-Hoc assessment session creation mode allows you to explicitly define objects characterizing the scope of your session.

To create an assessment session in Ad-Hoc mode:

- 1. In the session creation wizard, select the **Ad-hoc** mode:
- 2. Click Next.
- 3. Complete each of the sections with the objects that interest you:
 - Assessed Characteristics
 - An assessed characteristic defines what the assessment seeks to assess. It can be associated with a MetaClass, and more specifically with one of its MetaAttributes, for example: Risk MetaClass, MetaAttribute: Criticality.
 - Assessed Objects

The Connect button allows you to select objects by filtering these by assessable object type.

- (Optional) Context Objects
 - A context object is an object in the framework of which the assessment is carried out. For example, a risk can be assessed in the framework of an entity, a control can be assessed in the framework of a process).
- Assessors: you may select a Respondent as well as Person Assignments.
 - A respondent is a person in the enterprise questioned in the context of the assessment. This person should complete the assessment questionnaire and return it.
 - Person assignment enables specification of the profile to which you wish to address the questionnaire when the same person has several profiles.
- 4. Click Next.

- 5. Create a Questionnaire Template.
 - You cannot connect existing questionnaire templates.
 - A questionnaire template represents definition of questionnaire content: question group, questions, unique or multiple answers and possible answers. It can be associated with a questionnaire presentation specifying display options. The questionnaire template is defined either at assessment template level or assessment session level. Questionnaires sent to respondents are generated from the definition supplied in the questionnaire template.
 - For more details, see "Questionnaire Contents".
- 6. In the dialog boxes that follow, you can:
 - specify the **Quotation Rule** to be applied.
 - A quotation rule defines the list of answers used to calculate the value of an assessment characteristic. It also provides the plugIn handling the calculation.
 - For more details, see "Quotation Rules".
 - refine questionnaire template presentation
 - For more details, see "Defining Questionnaire Presentation".
- 7. Click OK.

In Expert mode

Expert creation mode is reserved for experts who want to use queries or macros to define scope of their assessment session.

To create an assessment session in **Expert** mode:

- 1. In the session creation wizard, select the **Expert** mode.
- 2. In the Assessment Scope Definition field, specify how you wish to define scope:
 - "By Tree"
 - "By Collection"
 - For more details on assessment scope definition, see "Defining Assessment Template Properties".
- 3. Click Next.
- 4. Complete the list of assessed characteristics explicitly.
 - For more details, see "Managing Assessed Characteristics".
- **5.** Complete assessment scope using deployment collections to determine:
 - the list of objects to be assessed
 - the list of objects defining the assessment context
 - the list of respondents
 - For more details, see "Creating Assessment Deployment Collections".
- 6. Click Next.
- 7. Create a Questionnaire Template.
 - For more details, see "Questionnaire Contents".
 - A questionnaire template represents definition of questionnaire content: question group, questions, unique or multiple answers and possible answers. It can be associated with a questionnaire presentation specifying display options. The questionnaire template is defined either at assessment template level or assessment session level. Questionnaires sent to respondents are generated from the definition supplied in the questionnaire template.

- 8. Click Next.
- Specify the Quotation Rules to be applied as well as a MetaTest if required.
 - A quotation rule defines the list of answers used to calculate the value of an assessment characteristic. It also provides the plugIn handling the calculation.
 - For more details, see "Quotation Rules".
- 10. Click OK.
- In the session creation wizard, click Next.
 A preview report of the scope calculated for the session is presented for information.
- 12. Click Next.
- 13. Specify when to start the session. See "Session start options".
- 14. Click OK.

Session start options

You have several possibilities to start a session:

- Not now
- Now

If you choose this option, you will be able to see the assessment session being launched. This option enables to execute the following workflow transitions at the same time:

- deploy: "Deploying Assessment Sessions"
- validate: "Validating Assessment Sessions"
- start: "Starting Assessment Sessions"
- As soon as possible: after saving, in batch mode
- Schedule: later, specifying the date and hour in UTC format

Next step: "Deploying Assessment Campaigns".

Deploying Assessment Campaigns

Deploying an assessment campaign consists of indicating in advance the objects to be assessed at the level of each session of the campaign.

To deploy a campaign, you must have created a campaign with a template.

This step is optional. If you are not deploying the assessment campaign, go directly to "Validating Assessment Campaigns"

To deploy a campaign:

- 1. In the list of campaigns, click the icon of the campaign you created and select **Assessment Campaign (In Preparation) > Deploy**.
- 2. In the deployment window, indicate that you want to deploy the campaign now.
 - A window asks if you want to deploy the campaign:
 - now
 - as soon as possible (after dispatch)
 - at a predefined date and time

3. Click OK.

Assessment nodes are created.

An assessment node comprises:

- an object to assess
- a respondent (or an assignment, which is a respondent associated with a particular profile)
- one or several context objects if necessary (entities and processes)

Next step: "Defining Assessment Campaign Scope".

Defining Assessment Campaign Scope

Having deployed the assessment campaign, you must:

- define the scope, that is select the assessment nodes you want to include in your campaign.
- specify respondents.
 - For more details on assessment nodes, see "Deploying Assessment Campaigns"

Defining assessment campaign scope

To define campaign scope:

- 1. In the properties of the campaign, select the **Effective Scope** tab. The list of assessment nodes from your deployment appears.
- Select the values you want to remove from the campaign and click the Unvalidate button.

Specifying respondents

To add or modify respondents:

Select the elements that interest you and click **Set Respondent**.

Next step: "Planning Assessment Campaigns".

Planning Assessment Campaigns

When campaign scope has been defined and assessment sessions created, you can plan the campaign.

This consists of distributing assessments between the different assessment sessions.

To plan the campaign:

- 1. In the properties of the assessment campaign, select the **Planning** tab.
 - The **Planning** tab is visible only when assessment sessions have been created.

- In the right pane, select the assessment sessions in which you want to assess the objects (for example risks) in their context (for example entities).
 - **☞** If you don't see the previously created assessment sessions, click the **Refresh** button.



Respondents are specified at step "Defining Assessment Campaign Scope".

Next step: "Validating Assessment Campaigns".

Validating Assessment Campaigns

When you have planned the assessment campaign, you can validate it.

The effect of assessment campaign validation is to freeze its parameters (for example scope or planning).

To validate the campaign:

Click the campaign icon and select Assessment Campaign (In Preparation) > Validate.

You can now prepare start of assessment sessions.

Next step: "Deploying Assessment Sessions".

Deploying Assessment Sessions

Having planned and validated your campaign, you can deploy assessment sessions.

Deployment enables computing of all possible assessment nodes for the session.

An assessment node comprises:

- an object to assess
- a respondent (or an assignment, which is a respondent associated with a particular profile)
- one or several context objects if necessary (entities and processes)

The session manager can then review this list.

To create the list of assessment nodes of a session:

- 1. Open the properties page of the campaign and select the **Session** tab.
- In Session section, right-click the session that interests you and select Assessment Session (In Preparation) > Deploy.
 - An intermediate window asks if you want to execute the deployment now, as soon as possible (after dispatch) or at a scheduled date.

This operation can take several minutes.

Next step: "Defining assessment session scope".

Defining assessment session scope

Having deployed the assessment session, you can:

- define the scope, that is select the assessment nodes you want to include in your session.
- specify respondents.
 - ► If you have defined the scope on the assessment campaign, you do not necessarily need to redefine it on the assessment session. For more details, see "Defining Assessment Campaign Scope".

Defining assessment session scope

To access the list of calculated assessment nodes:

• Open the properties of the assessment session and select the **Effective Scope** tab.

From this list you can duplicate, validate, invalidate or delete elements to be assessed, and assign a respondent.

Specifying respondents

To add or modify respondents:

In the **Effective Scope** tab of session properties, select the elements that interest you and click **Define Respondent**.

Next step: "Validating Assessment Sessions".

Validating Assessment Sessions

The effect of assessment session validation is to generate questionnaires, without however sending these to addressees.

Generating questionnaires

To generate questionnaires:

- 1. Open the properties page of the campaign and select the **Session** tab.
- In the Assessment Session section, click the session that interests you, then Assessment Session > Validate.
 All questionnaires are created with status "To send". This operation can take several minutes.

You can now view questionnaires that have been generated.

Viewing Generated Questionnaires

To view generated questionnaires:

- In the properties of an assessment session, select the Questionnaires tab.
- 2. Open each of the questionnaires to display the associated assessment nodes and questions.
 - **▼** If questionnaire presentation is unsatisfactory, the functional administrator can modify it at this stage.

To configure these, see "Assessment Templates" in the **HOPEX Power Studio** - Assessment documentation.

In the solution, questionnaire templates are available in the pane concerning campaign management > **Preparation** > **Questionnaire Templates**.

Regenerating Questionnaires

You may need to regenerate the questionnaires if for example you decide to modify respondents before starting the assessment session.

To regenerate questionnaires:

Right-click the assessment session concerned and select Assessment
 Session (To Start) > Regenerate Questionnaires.

Next step: "Starting Assessment Sessions".

Starting Assessment Sessions

The effect of starting an assessment session is to send questionnaires to respondents.

To send questionnaires to respondents:

Select Assessment Campaigns > Campaigns.
 The list of campaigns appears in the edit area.

- 2. Select the campaign that interests you and click **Properties**.
- 3. In the **Sessions** section, click the session that interests you, then **Assessment Session > Start**.

The session activation page appears.

4. Click the **Save** button at top of the page.

The assessment questionnaires are sent to respondents defined in the assessment session perimeter.

An assessment questionnaire is a list of questions relating to a particular object and addressed to users.

Completing Questionnaires

The steps described here concern questionnaire respondents.

Accessing Assessment Questionnaires

After starting an assessment session, questionnaire addressees receive a notification.

To complete questionnaires:

 In the navigation menu, click My Tasks > Assessment > Questionnaires to answer.

The list of questionnaires to be completed appears.

- Select the questionnaire that interests you and click **Display** Questionnaire.
- **3.** Select the questions and reply to these in the lower part of the window.
- 4. Click Save.
- **5.** Close the questionnaire display window.
- 6. Click the questionnaire in the questionnaires list and select **Assessment Questionnaire** (To Be Completed) > Submit Answers.
 - Questionnaires are visible from this menu as long as the assessment session is not closed. If the assessment session is closed, you can consult them in the **Questionnaires** tab of the assessment session.

Requesting questionnaire transfer

If you receive a questionnaire by mistake, you can ask the session manager to transfer the questionnaire to another person.

To make a transfer request:

- In the navigation menu, click My Tasks > Assessment > Questionnaires to answer.
- 2. Click the icon of a questionnaire and select **Assessment Questionnaire** (To Be Completed) > Transfer Request.

The questionnaire switches to the "To Reassign" status.

The manager is informed by e-mail and must reassign the questionnaire to another person.

► Transfer requests are exceptional if execution campaign creation preparatory work has been correctly carried out.

Following Up Session and Questionnaire Progress

Consulting Session Results

To consult progress of an assessment session:

- Open the properties of the assessment session and select the Reports > Follow-Up tab.
 - For more details on this report, see "Campaign results tree".

Validating Assessment Questionnaires

To access the list of assessment questionnaires completed by respondents:

 In the navigation menu, click My Tasks > Assessment > Questionnaires to review.

In the page that appears, a section concerns the questionnaires to be validated.

Note that workflow status has passed to "To Be Validated".

Select the questionnaire that interests you and click **Display** Questionnaires.

Content of the questionnaire appears in a new tab. You can view answers.

- 3. Close the questionnaire display window.
- If you consider that the questionnaire has been correctly completed, click its icon and select Assessment Questionnaire (To Be Validated) > Validate.

The questionnaire is closed and results are automatically calculated.

Asking a respondent to modify answers

If answers to a questionnaire are not suitable, you can ask the respondent to modify these.

To make a modification request:

- In the navigation menu, click My Tasks > Assessment > Questionnaires to review.
 - In the page that appears, a section concerns the questionnaires to be validated.
- 2. Click the icon of a questionnaire and select **Assessment Questionnaire** (To Be Validated) > Ask For Modification.
 - The respondent can modify his/her answers. See "Completing Questionnaires".

Viewing assessment campaign reports

Reports specific to assessment campaigns are available. For more details, see "Assessment Follow-Up Reports".

Reassigning questionnaires

If a respondent has made a transfer request, you must reassign the questionnaire.

To reassign a questionnaire:

- In the navigation menu, click My Tasks > Assessment > Questionnaires to review.
 - In the page that appears, a section concerns the questionnaires to be reassigned.
- Open the properties dialog box of the questionnaire concerned and select the **Reassignment** tab.
 - This tab only appears when the questionnaire has "To Reassign" status.
- 3. Select all nodes to be assessed and click the **Reassign** button.
- 4. Using the search page that opens, select a questionnaire and click **OK**.
 - If person assignments have been specified (for example, the questionnaire should be sent to a person in the context of a business role in particular), you can reassign the questionnaire in the section provided for this purpose.

The new respondent appears in the **Correspondent** column.

 Select the icon of the questionnaire and select Assessment Questionnaire (To be Reassigned) > Reassign.

The new respondent receives an e-mail. He/she can complete the questionnaire, status of which is again "In Progress", then submit answers.

Closing the Assessment Session

You can close the session at any time.

To close an assessment session:

- 1. Open the properties page of the campaign and select the **Session** tab.
- 2. In the **Assessment Session** section, right-click the session that interests you and select **Close**.
 - All questionnaires are automatically closed. This operation can take several minutes.
 - Results are valid only if the session is closed.

Consulting Assessment Results

The results of the control and risk assessment can be presented in dedicated reports that facilitate the analysis of the assessed objects. For more details, see "IRM Reports".

IRM REPORTS

Several reports deal with global IRM-related issues (Integrated Risk Management).

- "Action Plan Follow-up Reports"
- "Assessment Follow-Up Reports"
- "Regulatory Compliance Reports"

For more information on reports specific to a solution, see the corresponding documentation.

- "Report Related to Risks"
- "Reports Related to Controls"
- "Reports Related to Incidents"
 - ► See also: "Availability of IRM Reports"

AVAILABILITY OF IRM REPORTS

The reports available to you depend on the profiles and solutions used.

Profiles/Areas	Risks	Controls	Compliance	Incidents	Action Plans
Manager GRC	Х	Х	Х	Х	Х
Risk Manager	Х				Х
Internal Control Director		Х	Х		Х
Risk Manager+ Incident & Loss Adminis- trator	X		Х	Х	Х

ACTION PLAN FOLLOW-UP REPORTS

For more information on action plans, see "Managing Action Plans".

Action Plan Follow-Up

To follow up action plans:

Select Analysis > Action Plans > Follow-Up Follow-Up.

Access path

Analysis > Action Plans > Follow-Up

Result

This report enables the session manager to view whether questionnaires were completed between the planned start dates and the end of the assessment session.

The report is presented as a bar chart: It comprises several graphs:

- bar charts
- pie charts

The action plans are represented in their different contexts (processes and entities).

Action plans by status

This bar chart presents action plan statuses.

Action plans by progress

This pie chart presents action plan breakdown according to their status. Possible statuses are the following:

- On Time
 - in progress
 - with due date exceeding 30 days
- Delayed:
 - in progress
 - with due date earlier than current date
- Approaching due date:
 - in progress
 - with due date between 0 and 30 days inclusive
- Canceled
- Closed

Action plan by priority

This pie chart presents action plan breakdown according to their priority.

Possible priorities are the following:

- Critical
- High
- Medium
- Low

Action plans by category

This pie chart presents action plan breakdown according to their category.

Possible categories are as follows:

- Corrective
- Preventive

Action plans by entity

This bar chart presents breakdown of action plans for each entity.

- x-axis: all entities
- y-axis: number of action plans linked to each entity and sub-entity
 - **☞** If no entity is selected, all root entities are taken by default.

Action plans by process

This bar chart presents breakdown of action plans for each process.

- x-axis: all processes (business and organizational)
- y-axis: number of action plans linked to each process and sub-process
 - **▶** If no process is selected, all root processes are taken by default.

Gantt report

This report displays all action plans in the form of a Gantt chart.

To generate a Gantt chart of action plans:

- 1. Select Analysis > Action Plans > Gantt.
- 2. Click **New** then **Next**.
- 3. Click Connect to select action plans.

4. Click **OK**. The Gantt of action plans appears.

☐ 1. Action Plan Gantt

1 Ju	I 2014	1 Sep 2014	1 Nov	2014	1 Jan 20	015 1	Mar 2015	1 May	2015	1 Jul 20	015 1 Se	2015	1 Nov	2015	1 Jan 20	16 1 Ma	ır 2016
*Improve control on																	
Projects Loan -												_					
Management																	
Annual review of accounts																	
Annual review of																	
providers account																	
Annual Review of																	
supplier contracts																	
Check invoices for each																	
delivery																	
Check on orders -																	
F-1																	
Enlarge range of payment means												_					
Framework agreement			_														
implementation																	
Get a bugdet extension -																	
-																	
Help customer to define decision criteria on -																	
website																	
Highlight plan differences -																	
Implementation of CO2																	
sensors									_								
Improve healthcare plan collaterals			_									-	_				
Improve Policy																	
Awareness in California																	

ASSESSMENT FOLLOW-UP REPORTS

To access IRM assessment reports:

In the navigation pane, click **Assessment > Results**.

Assessment

Campaign results tree

This report presents results of a given execution campaign session. It presents entities/processes/controls as trees and indicates for each assessed control whether it is satisfactory or not.

Access path

Assessment > Results > Control Assessment Campaigns > Campaign Results Tree.

Parameters

Parameters
Campaign
Assessment session

Campaign Result Matrix by Entity

This report presents as a matrix the results of each session of a given assessment campaign.

Access path

 $\label{eq:assessment} Assessment > Results > Control \ Assessment \ Campaigns > Campaign \ Result \ Matrix \ by \ Entity.$

Parameters

Parameters		
Campaign		
Entity		
Entity type		

Aggregation Report

The aggregation report presents in tree form all objects from the selected root entity, together with their last assessment.

Access path

Assessment > Results > Aggregation

Parameters

Parameters	Remarks
Begin Date	
End date	By default current date
Context root	Tree root entity
Aggregation schema	An aggregation schema should be selected from the proposed list
Assessed characteristics	Assessed characteristics proposed depend on the selected aggregation schema.

An aggregation schema is a series of steps enabling consolidation of assessment results according to specified assessment rules.

Follow-Up

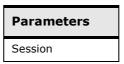
Session Follow-Up

This report enables assessment session follow-up.

Access path

Reports > Execution > Execution Session Follow-Up

Parameters



Result

A summary displays general information on the current assessment session.

This report presents a number of charts concerning assessment progress:

- Percentage of completed questionnaires
- Distribution of questionnaires by status
- Distribution of questionnaires delegated/not delegated
- Distribution of questionnaires by status, for each respondent
- Distribution of questionnaires by status, for each assessed object

Session Statistics

This report displays the questionnaire data of a given assessment session and is used to analyze the distribution of answers.

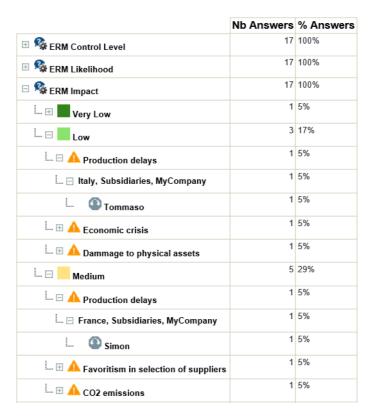
Access path

Reports > Follow-Up > Session Statistics

Parameters

Parameters	Remarks
Campaign	Mandatory
Session	Mandatory

Report example



Result

A tree appears:

- in rows: questions/answers, together with respondents
- in columns: for each question/answer, the number of respondents This tree specifies who has answered what to which question.

By expanding a reply, we obtain the name of the assessor and the risks to which the reply relates.

REGULATORY COMPLIANCE REPORTS

Requirement Location Matrix

This report enables simple location of requirements.

Access path

Reports > Regulatory compliance > Requirement Location Matrix

Parameters

Parameters	Parameter type	Comment
Begin Date	Date	Optional All requirements created after this date are selected.
End date	Date	Optional All requirements created after this date are selected.
Parent context	The context object can be a(n): - Organizational process - Business process - Entity - Regulation	Mandatory Parent of context elements dis- played in the matrix
Localized require- ments	List of requirements possibly filtered by: - Requirement - Entity - Regulation	Mandatory Requirements to be displayed in the matrix

Result

The requirement location matrix displays links between:

- a list of requirements
- sub-elements of a root context object
 - The report is empty if the selected context object has no subobjects

Requirement Identification

This report consists of several graphs and gives an overview of the requirements recently created as well as their status.

This report presents distribution of requirements according to several perspectives:

- entities
- processes

Access path

Reports > Regulatory compliance > Requirement Identification

Parameters

Parameters	Remarks
Begin Date	Optional All requirements created after this date are selected.
End date	Mandatory Initialized with current date All requirements created after this date are selected.
Context object	Optional The context object can be: - an entity - a process

You can specify context objects enabling display of requirements linked to:

- Entities
- Processes

To connect context objects:

- 1. In the appropriate frame, click **Connect**
- 2. In the window that appears, select the objects to connect through a tree.

Results

To obtain the list of requirements making up a bar chart bar:

Click the bar chart bar that interests you.

The list of requirements taken into account is presented at the bottom of the edit area.

IRM SOLUTION WORKFLOWS

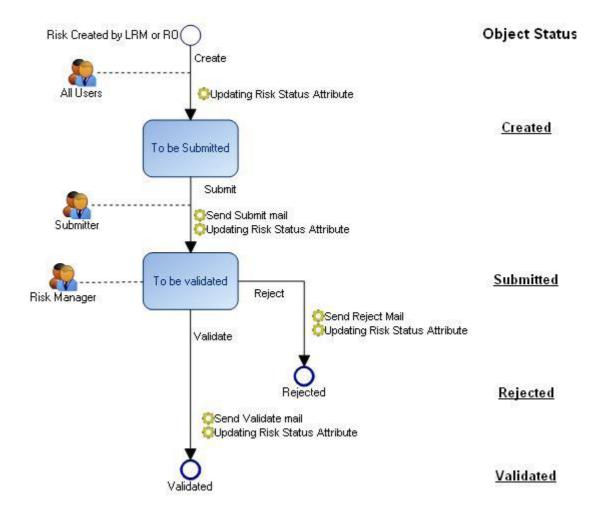
IRM (Integration Risk Management) activities are performed via ready-to-use workflows.

Workflow transitions are available in the pop-up menus of objects to which the workflow relates.

- √ "Risk Workflow"
- √ "Testing Workflows", page 81
- √ "Assessment Workflows", page 85
- √ "Action Plan Workflows", page 87
- √ "Incident Workflow"

RISK WORKFLOW

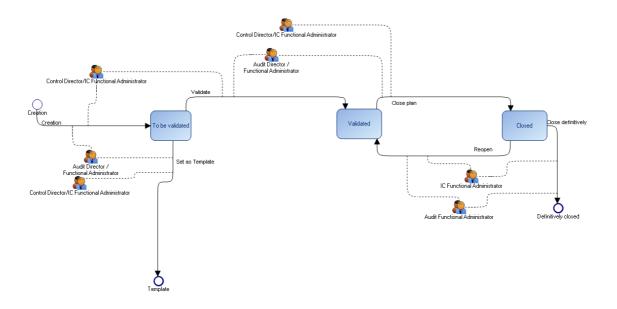
For more details on risks, see "Managing Risks".



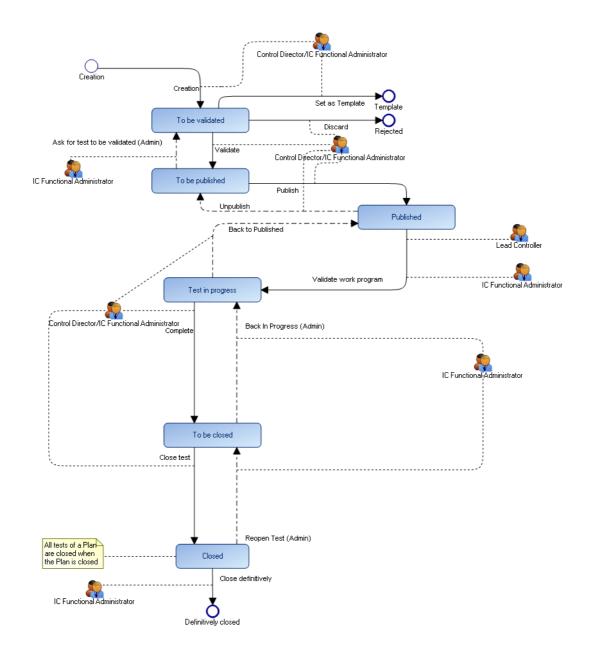
TESTING WORKFLOWS

For more information on testing, see "Control Testing".

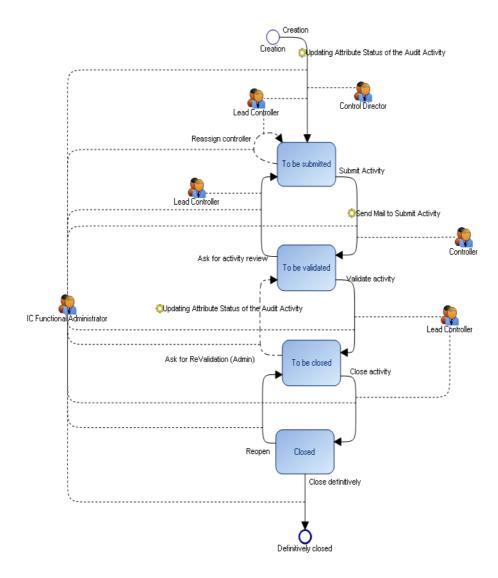
Test Plan/Audit Plan Workflow



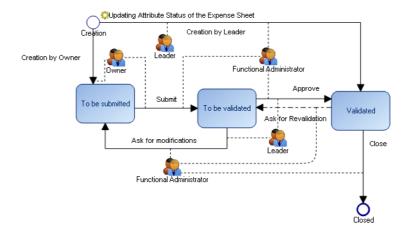
Test Workflow



Test Activity Workflow



Expense Sheet Workflow

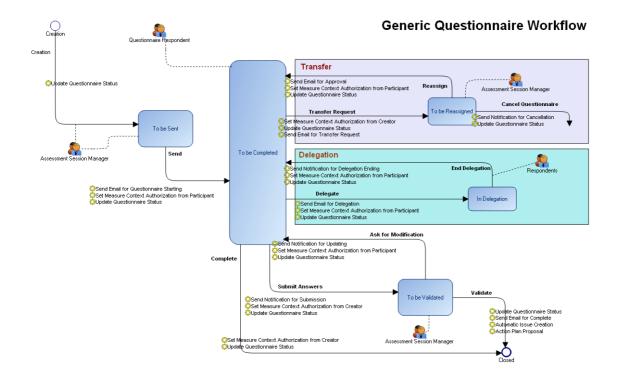


ASSESSMENT WORKFLOWS

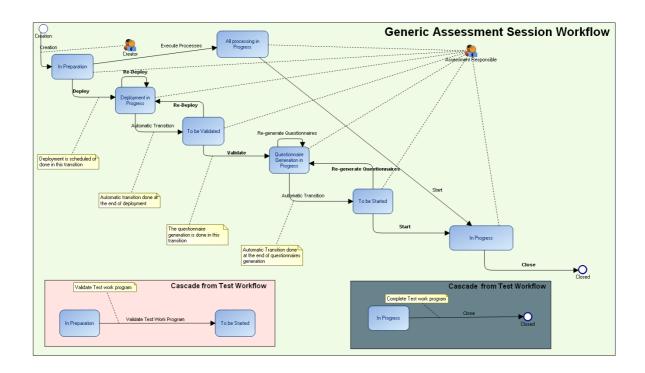
For more details on the workflow:

- Of control assessment campaigns, see "Assessment Campaign Generic Workflow", page 110.
- Of control execution, see "Automatic Assessment Workflows", page 113.
 - **▼** These workflows are detailed in the **HOPEX Power Supervisor Assessment** guide.

Questionnaire Workflow



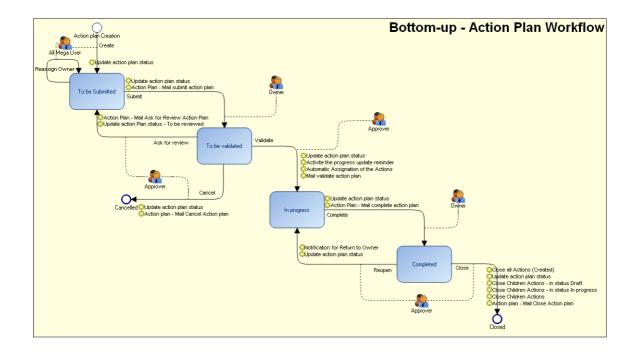
Session Workflow



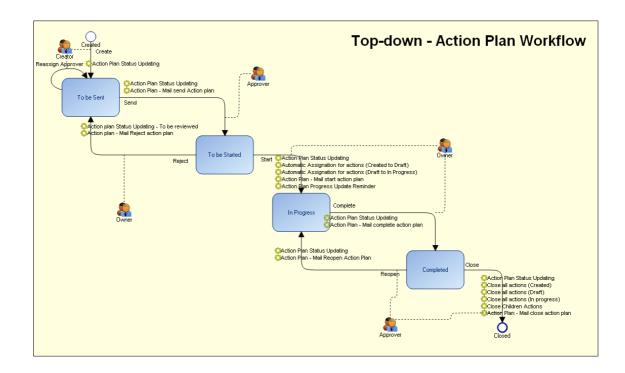
ACTION PLAN WORKFLOWS

For more information on action plans, see "Using Action Plans".

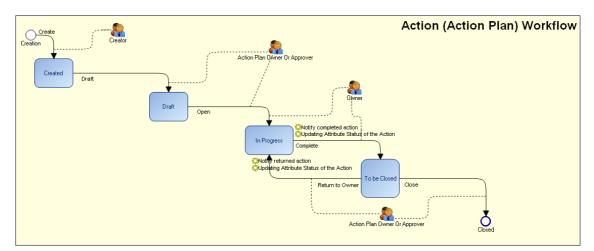
"Bottom-up" Action Plan Workflow

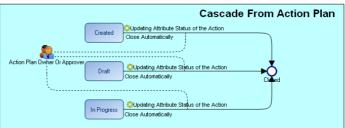


"Top-down" Action Plan Workflow



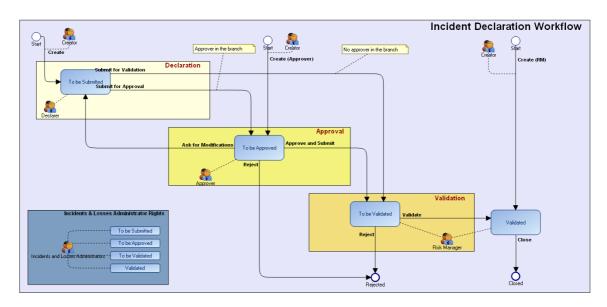
Action Workflow





INCIDENT WORKFLOW

For more details on incidents, see "Collecting Incidents".



HOPEX Internal ControlUser Guide

HOPEX V3



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Contents

INTRODUCTION TO HOPEX INTERNAL CONTROL

HOPEX Internal Controlis an internal control management solution covering the different phases of internal control. This solution enables:

- √ definition of internal control systems with creation of a control library
- ✓ execution of controls
- \checkmark assessment of controls, directly or by assessment campaigns or tests
- √ management of issues and action plans

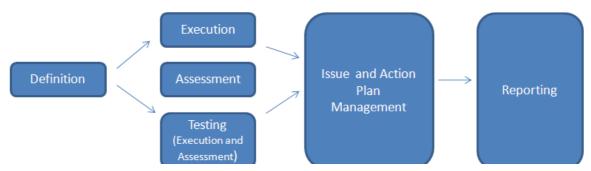
HOPEX Internal Control is intended for internal control managers, internal controllers and business process managers. An interface customized according to profile accompanies implementation of internal control systems.

INTERNAL CONTROL PROCESS

Internal control consists of checking that controls carried out during enterprise processes have been correctly executed and are efficient.

HOPEX Internal Control covers the different phases of internal control:

- Control Library Definition
- Control Execution
- Control Assessment
- Control Testing
- Issue and Action Plan Management



Defining the internal control library is a prerequisite for control execution and assessment activities.

Execution and assessment of controls can be carried out independently.

Reporting functions are available at all times, either globally or for each internal control step.

Control Library Definition

HOPEX Internal Control allows internal control managers to:

- identify controls
- contextualize controls in the company repository, that is to connect them to the appropriate processes and entities

See "Managing Controls", page 13.

Control Execution

Controls are regularly executed by managers to check that first level controls are correctly executed. **HOPEX Internal Control** allows:

- creation of questionnaires called check-lists
- definition at regular intervals of control execution campaigns
- follow-up and consolidation of control execution results from reports
 - The **HOPEX Internal Control** solution does not concern first level controls executed by operational management during execution of enterprise processes.

See "Executing controls", page 35.

Control Assessment

Assessment of relevance of controls in terms of design and efficiency can be carried out by means of:

- assessment campaigns via questionnaires
 See "Managing Assessment Campaigns", page 37.
- direct assessment
 See "Assessing controls", page 23.
- control tests organized by the internal control department See "Control Testing", page 55.

Issue and Action Plan Management

Issues can be identified from control assessment questionnaires or specified directly in the solution.

Resolution of issues is formalized by implementation of action plans. Reports assure efficient follow-up of internal control activities.

See "Managing Issues and Action Plans", page 107.

ACCESSING HOPEX INTERNAL CONTROL

The menus and commands available depend on the profile with which you are connected.

Connecting to the solution

Pour connect to HOPEX, see **HOPEX Common Features**, "HOPEX desktop", "Accessing HOPEX (Web Front-End)".

For more details on how to use the interface, see the **HOPEX Common Features** guide.

HOPEX Internal Control Profiles

In **HOPEX Internal Control**, there are, by default, business profiles with which specific activities are associated.

Profiles	Desktop	Tasks
Internal Control Director (Or GRC manager)	HOPEX IRM	 Have all rights on workflows, objects and menus of the solution Validate campaigns Prepare test plans Validate action plans
Internal Controller (Or GRC manager)	HOPEX IRM	Define controls Prepare campaigns Execute tests (create work programs, create issues and action plans) Validate and follow up action plans
GRC Contributor (Lite)	IRM Contributors	- Complete control execution check-lists - Answer assessment questionnaires - Define and create action plans (and create issues) See "The GRC Contributor Desktop".

MANAGING CONTROLS

HOPEX Internal Controlenables creation of control libraries and connection of controls to objects in their environment. This enables positioning of controls in their business context. This "contextualization" allows internal control managers to define adapted controls and subsequently carry out relevant assessments.

- √ "Creating Controls"
- √ "Control Characteristics"
- √ "Accessing controls"
- √ "Contextualizing Controls"
- √ "Visibility of Controls"

CREATING CONTROLS

The GRC Manager, the internal controller, the internal control director and the functional administrator can create controls.

To create a control:

- In the HOPEX IRM desktop, select Libraries > Control Library > All Controls.
- 2. Click New.

The control created appears in the list of controls. You can now specify the various characteristics from the properties window.

For more details, see "Control Characteristics".

CONTROL CHARACTERISTICS

Different sections are available in the properties of a control.

To access controls, see "You can access controls through lists and trees which allow classification of controls according to different criteria.".

General characteristics

Code

The code enables unique identification of the control.

Control objective

You can enter a comment describing the required objective of setting up the control.

Owner

The control owner is the user responsible for execution of the control.

This field is used when there is only one "Responsible" (in the RACI sense).

For more details on RACI, see "Responsibilities concerning Controls".

Key control

When the **Key control** check box is selected, the control appears in the following list:

Libraries > Control Libraries > All Controls > Key Controls

Control nature

This characteristic allows you to specify the nature of the control. You can select from three main internal control types:

- Corrective
- Detective
- Preventive

Operational cost

This characteristic enables indication of a control cost assessment.

Execution mode

This characteristic enables specification of how the control is carried out:

- "Automatic"
- "Manual"
- "Semi-automatic"

Status

- "Draft"
- Validated

Scope of a control

The **Scope** section of control properties enables connection of controls to other objects:

- Business processes
- Organizational processes
- Entities
- Risks
- Accounts
- Requirements
- Types of control

Responsibilities concerning Controls

HOPEX Internal Control enables definition of responsibilities of each participant related to a control via the RACI matrix:

- Responsible
- Accountable
- Consulted
- Informed

Responsibility levels

The proposed responsibility levels are as follows:

Responsibility	Meaning									
Responsible	Responsible for execution of required actions.									
Accountable	Reporting on progress of planned actions and making decisions. There is only one "Accountable".									
Consulted	Consulted as first priority before an action or decision.									
Informed	Must be informed after an action or decision.									

Specifying control responsible users

In the framework of control assessment via campaigns, questionnaire respondents are *Responsibles* of control.

For more details on assessment campaigns, see "Managing Assessment Campaigns"

You can connect several "Responsible" users for the same control in different entities.

To specify the person responsible for a control in a given entity:

- 1. In the control properties page, expand the **Responsibilities** section.
 - ► To access controls, see "Listing Controls".
- 2. Select the **Responsible** tab.
- Click the Connect button.In the dialog box that appears, click the Find button.
- Select a person in the list that appears and click Connect.
 The person appears under the tab concerned. You must now connect the person to an entity.
- **5**. In the **Assignment Location** field, select an entity to which the person executing the control is attached.
 - Ensure that an e-mail address is correctly specified in the properties of the person.

Control Dashboard

In the upper part of a control property page, a dashboard displays indicators.

Assessment Freshness

This indicator enables to know when the last assessment was performed.

Aggregated Execution Rate

The aggregated execution rate concerns control execution checklists. For more details on this functionality, see "Executing controls".

For example: If controllers assessed 70% of controls in a specific context, 50% in a an another, and 20% in another, the gross execution rate on the control is 46.6%.

Open Issues

Open issues are issues for which the action plan was not completed.

For more details, see "Managing Issues and Action Plans".

Aggregated Pass Control Level

Aggregated Pass Control Level = Control Design (IC) * Control Efficiency (IC)

As a reminder, these are the possible values used to compute the Pass Control Level:

- Control Design:
 - adequate
 - inadequate
- Control Effectiveness:
 - effective
 - ineffective

ACCESSING CONTROLS

You can access controls through lists and trees which allow classification of controls according to different criteria.

Listing Controls

To list all controls:

In the HOPEX IRM desktop, select Libraries > Control Library > All Controls.

A drop-down list enables to refine control access and classification according to different criteria:

- Key Controls
 - Key controls are the controls for which the **Key control** check box has been selected in the control properties.
- Controls with Failed Execution
 - This list displays controls with an aggregated execution rate lower than 90%. For more details on aggregated execution rate, see "Control Dashboard".
- Controls with Low Pass Control Level
 - This list displays controls with an average pass level lower than 85%
 - Control level characterizes efficiency level of control elements deployed (controls) to assess the risk.
- Risks without Recent Assessment
 - This list displays controls which have not been assessed for at least 12 months.

Accessing Controls by Control Types

To access controls through a tree of control types:

In the HOPEX IRM desktop, select Libraries > Control Library > All Controls > By Taxonomy.

A control type allows the classification of controls implemented in a company in accordance with regulatory or domain specific standards (Cobit, etc.).

Accessing Controls by Mitigated Risks

To view controls which mitigate (or not) risks:

In the HOPEX IRM desktop, select Libraries > Control Library > All Controls > By Mitigated Risks.

A drop-down list enables to distinguish between:

- Controls mitigating risks
- Controls not mitigating Risks

Accessing Controls by Implementation

You can create action plans to implement or modify controls.

To access controls according to their implementation status:

In the HOPEX IRM desktop, select Libraries > Control Library > All Controls > By Implementation.

A drop-down list enables you to view:

- controls associated with an action plan.
- controls associated with a delayed action plan.

For each control, columns display:

- If the control is a key control
- The control nature (preventive, corrective)
- The number of implementation action plans

Accessing Controls by Controlled Elements

Trees display controls classifying them by objects the controls apply to:

- processes
- entities
- applications
- accounts

A tree also gives the possibility to view the controls which are not associated to an object.

Accessing Controls by Deficiencies

A drop-down list enables to view controls linked to:

- Open Issues
- Incidents (controls with mitigated and materialized risks)

In the list of controls linked to incidents, the following is displayed in column:

- the number of incidents
- the date of the last incident occurrence
- total net loss

CONTEXTUALIZING CONTROLS

The same control can be assessed in the framework of different contexts (for example processes or entities). To enable this multiple assessment, you must "contextualize" controls, that is connect them to context objects.

You must connect controls to entities through the indirect link "Control->Process->Entity":

- Connect processes (organizational or business) to entities of the organization.
 - ► See "Connecting processes to an entity".
- Connect controls to processes
 - ► See "Connecting processes to a control".

Connecting processes to an entity

To connect processes to en entity:

- In the navigation menu, select My Environment > My Organization > My Entities and select an entity.
- 2. In the properties of the entity, expand the **Scope** section.
- In the subtab corresponding to organizational or business processes, click Connect.
- **4.** In the query dialog box that appears, click the **Find** button, select the required process and click **Connect**.

Connecting processes to a control

To connect processes to a control:

- In the navigation menu, select Libraries > Control Library > All Controls.
- In the control property page, select the Characteristics tab and expand the Scope section.
- In the subtab corresponding to organizational or business processes, click Connect.
- **4.** In the query dialog box that appears, click the **Find** button, select the required process and click **Connect**.

VISIBILITY OF CONTROLS

By default, controls are visible to all. However, you can modify only those controls attached to your reference entity or to one of its sub-entities.

A user is connected to a reference entity in the framework of his/ her assignment. For more details on assignments, see chapter "Managing Users" in the **HOPEX Power Supervisor** guide.

If according to your assignment you are connected to the "France" entity, you cannot modify controls that have "World" entity context.

However, if you are connected to the "World" entity, you can modify controls that have "France" entity context.

Assessing controls

Controls can be assessed in terms of their design/efficiency. Assessment can be carried out directly on controls or remotely via questionnaires.

This chapter explains how to start assessments.

To configure these, see "Assessment Templates" in the **HOPEX Power Studio** - Assessment documentation.

- The results of the control assessment can be presented in dedicated reports that facilitate the analysis of the controls assessed. For more details, see "Control Assessment Reports", page 100.
- √ "Control Assessment Types", page 24
- √ "Control Direct Assessment", page 25
- √ "Analyzing Control Assessment Results", page 31
- √ "Computing Assessment Results"

CONTROL ASSESSMENT TYPES

An assessment is designed to give values, in a specific context, to the different characteristics of a control.

Characteristics values can be specified:

- From the control properties page: see "Assessing a Control", page 25.
- From a multiple assessment table: see "Assessing Multiple Controls Simultaneously", page 27.
- Through an assessment questionnaire sent to appropriate recipients: see "Risk and Control Campaign Assessment", page 42.
 - ► HOPEX IRM also allows internal controllers and auditors to assess questionnaires on site. For more details, see "Control Testing", page 55.

CONTROL DIRECT ASSESSMENT

HOPEX IRM enables assessment of controls in terms of design and efficiency:

You can assess controls:

- Directly
- Through questionnaires sent to identified recipients.
 - For assessment by questionnaire, see "Managing Assessment Campaigns", page 37.

Direct Assessment Context

In direct assessment, the values of the control characteristics can be specified in two ways:

- In the properties of each control
- globally, using a multiple assessment table.

This is an "expert view" assessment.

You can assess controls for which you have editing rights.

Direct assessment is carried out for all context objects available in the **Scope** section of control properties:

- · Organizational processes
- Business processes
- Entities
- For more details on control contextualization see also "Contextualizing Controls", page 22.

Assessing a Control

► Before assessing a control, you need to ensure it has been contextualized in an appropriate way. For more details, see "Contextualizing Controls".

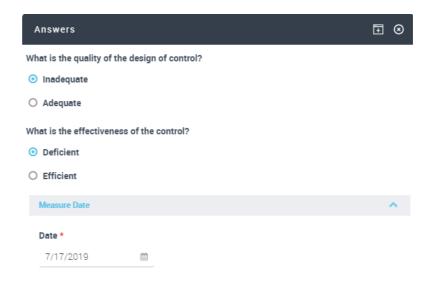
To directly assess a control:

- 1. Open the properties of a control.
- 2. In the Assessment page, click Perform Assessment.
 - The **Perform Assessment** is available is the control has been contextualized accordingly (a control must be connected to a process, which must in turn be connected to an entity).
- In the wizard that appears, select the context(s) to be included in the control assessment.

4. Click Next.

You can now select values that characterize this control (contextualized) in terms of:

- design
- effectiveness
 - Other questions can be asked if your administrator has configured the questionnaire supplied as standard.



- 5. In the **Control Design** field, indicate whether the control is:
 - adequate
 - inadequate
- **6.** In the **Control Effectiveness** field, indicate whether the control is:
 - effective
 - ineffective
 - ► Values are applied to all previously selected assessment nodes.
- Specify the measure date in the calendar.
 By default this is today's date. You can select a date earlier than today's date.
- 8. Click OK.

Control measures are created for each assessment node (ie. the control in a particular context).

You can create several measures on different dates in the same way.



Assessing Multiple Controls Simultaneously

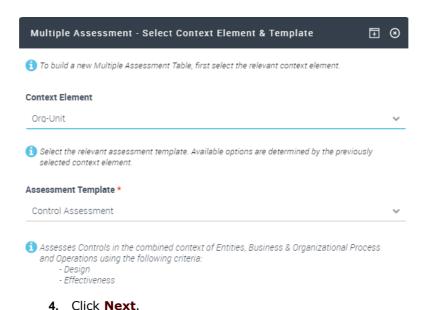
If you have to assess several controls, it can be quicker to use the multiple assessment table. This table allows you to specify the same value for several assessment nodes of different controls.

- An assessment node comprises:
- an object to assess
- one or several context objects (entities, processes, operations), if necessary

To assess multiple controls simultaneously:

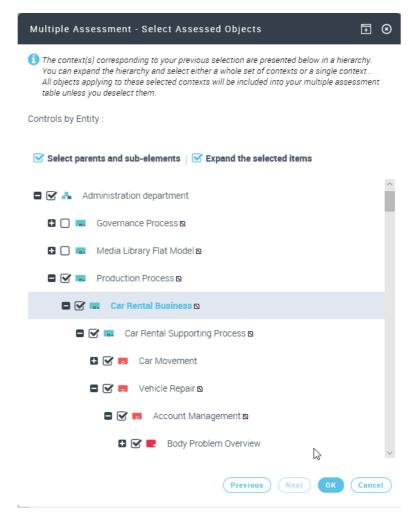
- From the navigation menu click Assessment > Direct Assessment > Control Multiple Assessment Table.
- 2. In the window that appears, click the **Build Multiple Assessment Table** button.
- **3.** Select the type of object that constitutes the context for controls:
 - Org Unit
 - Operation
 - Business processes
 - Organizational Process

The control assessment template is selected by default.



5. In the displayed tree, select the objects that apply to the context.

A control is assessed in the context of elements of the branch from the control up to the root.



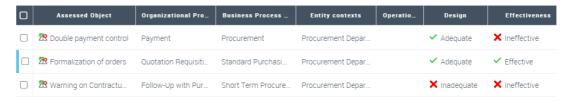
In the above example, if you select the "Car Rental Business" process, all controls and context objects located at a lower level are selected, as well as all parent context objects up to the tree root.

- 6. Click OK.

The list of controls to be assessed in a particular context appears.

- 7. In the **Control Design** field, indicate whether the control is:
 - adequate
 - inadequate

- 8. In the **Control Effectiveness** field, indicate whether the control is:
 - effective
 - ineffective



- 9. When values have been specified, select the assessed nodes and click Validate the Multiple Assessment Table .
- 10. In the window that opens click **Yes** to confirm.

Validation automatically creates an assessment in the **Assessment** page of the control properties. For more details, see "Displaying the Results of Control Assessment".

DISPLAYING THE RESULTS OF CONTROL ASSESSMENT

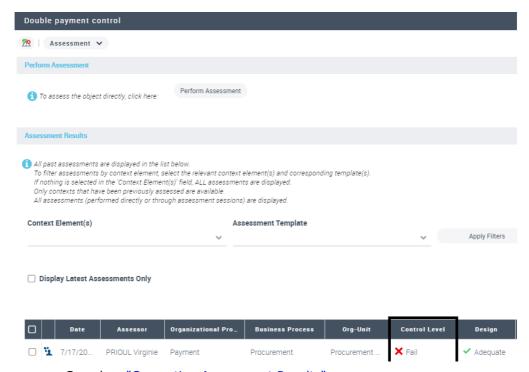
To display the results of assessments performed on a control:

- From the control library, select the **Assessment** page of the control properties.
- (optional) In the Assessment Results section, select the context element and template you are interested in and click Apply filters. The corresponding assessments appear. This way you can filter assessments when there are a lot of them.

The **Control Level** is automatically calculated from the specified characteristics values.

The control level shows "Pass" if the control is considered to be both:

- effective
- adequate



See also: "Computing Assessment Results".

ANALYZING CONTROL ASSESSMENT RESULTS

Instant reports

Instant reports offer a statistical graphic analysis of the data. You can generate instant reports on a selection of assessments in order to view certain data graphically or to compare the assessments for specific characteristics.

To launch an instant report on a set of assessment of a control:

- 1. Display the properties of the control and click the **Assessment** page.
- 2. Select the assessments in question.
- 3. Click the Instant Report button.
- **4.** Select the type of report to create and then, if necessary, the characteristics to be analyzed.

Example

Find below an example of control assessment Heatmap report. From the selected characteristics (effectiveness and control level in this example), this report offers a graphical representation of results.



For more details on instant reports, see the HOPEX Common Features user guide, "Generating Documentation", "Managing Instant Reports".

Dedicated analysis reports

In addition to instant reports, **HOPEX IRM** provides dedicated report templates that facilitate the analysis of the assessed controls. For more details, see "Assessment"

Follow-Up Reports".

COMPUTING ASSESSMENT RESULTS

Metaattribute	Computed / Not Computed	Explanations
Control Design (IC)	Computed through the [Internal Control - Control Attributes] macro	- if assessment node , value computed from the assessed characteristic "Control Design" (IC).
		- if aggregation node , value computed from the assessed characteristic "Average percentage of Pass Control Level".
Control Effectiveness (IC)	Computed through the [Internal Control - Control Attributes] macro	- if assessment node , value computed from the assessed characteristic "Effectiveness".
		- if aggregation node , value computed from the assessed characteristic "Average percentage of Pass Control Level".
Control level (IC)	Computed through the [Internal Control - Com- puted Control Attributes] macro	Rounded result obtained from the formula: Control Design (IC) * Control Effectiveness (IC)
Control Execution Value (IC)	Not computed	

For more details on aggregation, see "Aggregation Schemas" in the **HOPEX Power Studio** - Assessment documentation.

EXECUTING CONTROLS

Controls are executed periodically by process managers, to check that operational processes have been executed correctly and that their results comply with expectations.

Controls are executed in their context, by process and entity. They are presented in the form of check-lists. These check-lists are questionnaires presenting questions on each control. You can create your own questions, for all controls or for specific controls.

Automatically generated reports allow control execution progress follow-up and consolidation of results.

- √ "Preparing Control Execution"
- √ "Execution Campaign Principle"
- √ "Creating Execution Campaigns"
- √ "Starting Execution Campaigns"
- √ "Completing Control Execution Check-Lists"
- √ "Managing Execution Check-Lists"

PREPARING CONTROL EXECUTION

To be able to start execution campaigns, you must first:

- specify a steering calendar on controls to be assessed
 See "Defining Control Execution Calendars".
- define control steps on each control See "Defining questions on controls".
- define check-list respondents
 See "Defining Respondents".
- connect processes to controls to be executed
 See "Connecting Controls to Entity Processes".
 - ★ See also "Contextualizing Controls".

Defining Control Execution Calendars

To define periodicity of control execution, you must specify the steering calendar to be used.

Specifying a control steering calendar

To specify a steering calendar:

- 1. In the properties of a control, select the **Execution** page from the drop-down list.
- 2. Select an Execution Frequency.
 - This field is for information only.
- 3. Select a Steering Calendar.

Different steering calendars exist for different execution periodicities:

- daily
- monthly
- weekly
 - ► You can create a steering calendar if none of those supplied as standard is suitable.

Creating and configuring a steering calendar

To create a steering calendar:

- Select Control Library > Control Management > Steering Calendars > Steering Calendars and click New.
- 2. In the **Steering Date** section, click **New**.
- Open the steering date properties dialog box and select the Scheduling tab.

- 4. Specify the information required for starting the campaign including:
 - start and end dates for execution campaigns
 - Begin and end dates specified on the steering calendar do constitute campaign start and end dates. They simply serve to define the interval within which assessment sessions can take place.
 - ► It is recommended to use a relative begin date on the steering date.
 - start date and hour (defined in UTC format).
- 5. Select **Execute at start date & time** if you wish to launch the campaign execution immediately.
 - ► If the check box is deactivated, the scheduler waits for the next recurrent date (and time) to trigger the job.

Defining questions on controls

Before starting execution campaigns, you must define the content of check-lists used at control execution. It consists in defining questions to ask when executing controls.

You can create:

- questions concerning all controls
- · questions specific to a control

To do this, you must create control steps on each control. They correspond to check-list questions/answers. The control steps can be:

- **specific**: specific to the control itself
- inherited: applicable to all controls, excepting particular conditions
 - Conditions can be applied to inherited control steps. For more details, see "Conditioning questions".

Question/answer types

Several question/answer types are available.

OK/NO type questions/answers

The type of question proposed by default at creation of a control step is "OK/NO".

Possible answers to this question are:

- OK
- NO
- N/A: Not Applicable
 - Only answers of type "OK/NO" are aggregated in execution campaign results. Other answer types are considered as for information only.

Other question/answer types

Other question/answer types exist. You can for example choose to enter a comment, figures, dates.

For more details, see "Answer types" in the HOPEX Power Studio - Assessment documentation.

Creating questions

Questions are defined in HOPEX via control steps.

Two types of control step are available:

- **Specific control steps**: specific to the current control
- Inherited control steps: applicable to all controls

To create control steps corresponding to check-list questions/answers:

- In the properties of a control, select the Execution page from the dropdown list.
- 2. Expand the **Control Steps** section.

Two subtabs are available:

- Specific Control Steps
- Inherited Control Steps

When defining control steps specific to the current control, you can at the same time define control steps applying to all controls.

- In the **Inherited Control Steps** subtab, only the inherited control steps meeting specified conditions and applying to the current control appear. For more details on conditions, see "Conditioning questions".
- 3. In one of the subtabs, click **New**.
- 4. In the **Title** field, enter a question.
- 5. Indicate the question type, for example "OK/NO".
 - For more details on question types, see "Question/answer types".
 - You can reorder control steps to define order of appearance of questions in the check-list. To do this, click the **Reorder** button.
- 6. Click OK.

Conditioning questions

You can condition presence of a question in a check-list according to certain criteria. These criteria are defined in the conditions (called MetaTests) applicable to inherited control steps.

Creating conditions on inherited control steps

To create a condition on inherited control steps:

- In the navigation menu, select Execution > Preparation > Conditions on Control Steps.
- 2. Click New then OK.
- 3. The properties of the MetaTest just created, define the **Test Expression**.
 - ➤ You can also create the MetaTest in HOPEX Windows Front-End. For more details, see article HOPEX Power Studio, HOPEX Studio Publisher guide, "Creating consistency checks", paragraph "Defining an implementation test".

4. Click OK.

Managing inherited control steps and their conditions

To access inherited control steps:

In the HOPEX IRM desktop, select Execution > Preparation > Inherited Testing Steps.

All control steps present in the solution appear here.

To access conditions applicable to inherited control steps:

- In the HOPEX IRMI desktop, select Test > Preparation > Conditions on Testing Steps.
 - You can connect a condition to an inherited control step in the properties of the latter.

Defining Respondents

On each control you must define persons responsible for completing execution check-lists.

To do this, you must define control responsible users, that is "Responsible" in the RACI sense of the term.

For more details, see "".

Connecting Controls to Entity Processes

Controls are executed in the framework of organizational/business processes, connected to organization entities.

To connect controls to processes, see "Contextualizing Controls".

EXECUTION CAMPAIGN PRINCIPLE

Preparing Execution Campaigns

To be able to create an execution campaign, preparatory work is required at the level of controls. You must:

- connect processes to controls
 - ★ See "Contextualizing Controls".
- define control execution calenders
 - ► You must specify a steering calendar on each control to execute. See "Defining Control Execution Calendars".
- define questions on controls
 - ► You must specify control steps for all controls or for specific controls. See "Defining questions on controls".
- define check-list respondents, who are control owners for a specific entity.
 - ★ See "Defining Respondents".

Control Execution Periodicity

An execution campaign groups several execution sessions.

Each campaign session groups a set of controls to be executed on the same date.

Several assessment sessions are created in parallel for each steering calendar type identified.

```
For example:
```

a session is created each week if a weekly steering calendar has been specified on certain controls

a session is started each day if a daily steering calendar has been specified on certain controls

Controls are therefore grouped in each session according to the steering calendar to which they have been connected.

See also: "Examples of Session Automatic Launch".

Assessment Template Specific to Control Execution

Execution campaigns are automatic assessment campaigns with a specific assessment template.

The "Control Execution" assessment template is selected by default at execution campaign creation. This assessment template:

- prompts you to specify an entity.
- is used to identify controls used by processes attached to this entity and its sub-entities.

Check-list respondents are control owners in an entity or in sub-entities.

CREATING EXECUTION CAMPAIGNS

The execution campaign creation wizard enables definition of campaign scope.

Creating Execution Campaigns

To create an execution campaign:

- 1. In the **HOPEX IRM** desktop, select **Execution > Campaigns**.
- 2. Click New.
- In the creation window that appears, modify the proposed dates if necessary.

The campaign **Begin Date** marks the start of the execution campaign.

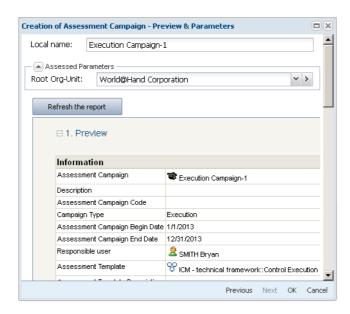
The "Control Execution" assessment template is selected by default. For more details, see "Assessment Template Specific to Control Execution".



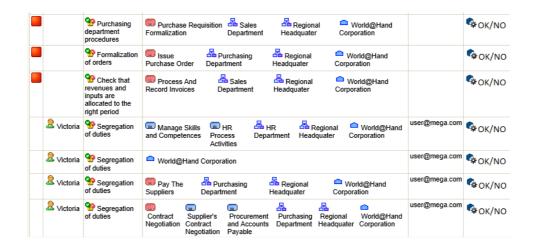
4. Click Next.

You will now define the scope of your execution campaign.

5. In the **Assessed Parameters** field, find the root entity that interests you, using the arrows on the right of the field.



- **6.** In the preview window, click **Refresh the Report**. Elements concerning the assessment campaign appear:
 - general information: for example begin and end dates, person responsible, number of objects to be assessed, number of respondents, number of contexts
 - assessed objects (controls)
 - context objects (entities and organizational/business processes)
 - respondents
 - Respondents execute controls. For more details on control responsibilities, see "Responsibilities concerning Controls".
 - assessment nodes, presenting objects to be assessed in their context, with specified respondent



- If no respondent has been specified on the control, or if no e-mail address is associated with the respondent, a red frame appears before the assessment node.
- 7. Click **OK**.

The campaign appears in the list.

Previewing the execution campaign

To preview execution campaign scope, before launching the campaign:

Open the properties of the campaign and select the **Preview and Parameters** page.

You can check data such as respondent, email, control scope. If data seems incorrect or incomplete, you can modify it before starting the campaign.

For a reminder on work control execution preparatory work, see "Preparing Control Execution".

STARTING EXECUTION CAMPAIGNS

When you have created the execution campaign, you must start it via the workflow.

Starting Execution Campaigns

To start the execution campaign:

- In the HOPEX IRM desktop, select Execution > Campaigns.
- Click the campaign icon and select Automatic Assessment Campaign (In Preparation) > Start.
 - "(In Preparation)" corresponds to the current status of the automatic execution campaign.

The campaign is started automatically:

- on the begin date specified on the campaign
- · at the time indicated on the steering calendar

Start of the execution campaign invokes automatic processing enabling planning and start of sessions.

A message indicating that parameterization is not complete might appear. This is the case when controls of scope are not connected to a steering calendar. However you can start the campaign.

Examples of Session Automatic Launch

Execution sessions are started according to:

- execution campaign begin and end dates
- begin and end dates and recurrences specified on the steering calendar of the controls to be executed
 - For more details on steering calendars, see "Defining Control Execution Calendars".

When a due date is reached, HOPEX checks:

- that the campaign has not been closed manually
- that the campaign end date is not expired

If both conditions are met, the next session is scheduled.

Example 1

If the begin date specified on the steering calendar is later than the campaign end date, controls are not executed.

Example 2

On the steering date it is specified that execution is scheduled everyday at 6am.

The campaign is created and the transition is triggered at 10am.

If the check box **Execute at start date/hour** is not selected, the campaign is launched on the morrow at 6am.

▶ If the check box is selected, a message indicates scheduling in the past is not possible.

Example 3

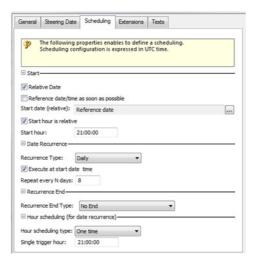
The check box **Execute at start date/hour** is selected.

On the execution campaign, the date of the first scheduled execution is later than today's date (campaign start date).

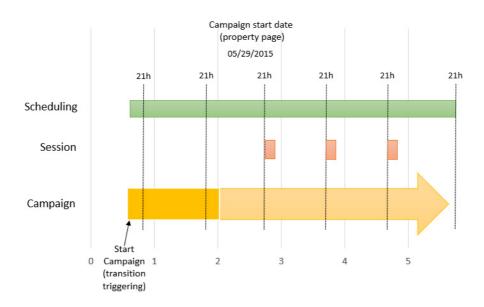
In that case, the campaign start date corresponds to the launching of the assessment session.

Example 4

Example of scheduling on the steering calendar



The following result is obtained:



Consulting execution campaign schedule

To consult dates and times of next execution of a campaign in progress:

- 1. In the **HOPEX IRM** desktop, select **Execution > Campaigns**.
- Open the properties of the campaign and select the Automatic Execution tab.

The list of timespots defined by the steering calendar appears.

At each timespot, the execution session scope is recreated. This means that if new controls have been added, they are taken into account at the next planned execution session.

The **End Date** indicated on the campaign defines the effective end of the campaign. For more details on sessions actually launched, see "Examples of Session Automatic Launch".

The dates indicated correspond to the scheduled jobs. A new session is created at each job execution. The previous session is closed.

COMPLETING CONTROL EXECUTION CHECK-LISTS

When the execution campaign has started, you can complete check-lists. To do this, you must connect with a user with the "GRC Contributor (Lite)" profile.

For more details, see "Managing Questionnaires".

Completing a Check-List

To complete the check-lists addressed to you:

- 1. In your Explorer desktop home page, click My execution check-lists.
- 2. Click Edit.
- 3. Select an element in the list and click **Display Check-Lists**.
 - ► In the HOPEX IRM desktop, select My Tasks > Execution > Checklists To Complete
- **4.** In the list that appears, select an object to be assessed and answer the check-list questions in the lower frame.
- 5. Select another object to be assessed and answer the questions.
- 6. Click the **Save** button.
- When you have answered all the questions, in the check-list pop-up menu, click Automatic Assessment Questionnaire (To Be Completed) > Complete.
 - You can modify answers for as long as you do not click **Complete** in the Check-List pop-up menu.

Transferring a Check-List

If you receive a questionnaire by mistake, you can ask the session manager to transfer the questionnaire to another person.

To make a transfer request:

Click the icon of a questionnaire and select Assessment Questionnaire (To Be Completed) > Transfer Request.

The questionnaire switches to the "To Reassign" status.

The manager is informed by e-mail and must reassign the questionnaire to another person.

Transfer requests are exceptional if execution campaign creation preparatory work has been correctly carried out.

Managing Execution Check-Lists

Accessing Check-Lists

You can view control execution check-lists at any time.

To access check-lists:

- In the **HOPEX IRM** desktop, select **Execution > Follow-Up**. From the drop-down list, you can view the check-lists which were:
 - · sent in the framework of the campaign
 - · completed by respondents
 - not yet completed

Reassigning Check-Lists

If a transfer request has been addressed to you, you must reassign the check-list to another user.

For more details on how to transfer a check-list, see "Transferring a Check-List".

To reassign a check-list:

- In the HOPEX IRM desktop, select My Tasks > Execution > Checklists To Reassign
- 1. Select a check-list and open its properties.
 - For details, see "Reassigning questionnaires". The principle is the same as for assessment questionnaires.

Following Check-Lists Up

Campaign results

For each executed control, **HOPEX Internal Control** calculates the percentage of "OK" steps in the total number of steps. This calculation is executed using an aggregation schema.

"N/A" answers are excluded from the total number of steps. This rule can however be customized.

Check-list reports

Reports allow you to follow up check-list progress and results. For more details, see "Control Execution Reports".

Displaying check-lists measures

To view check-list measures as well as the corresponding questionnaires:

- 1. In the control properties, select the **Execution** page.
- 2. In the **Detailed execution results** section, right-click a node to display the questionnaire.

Displaying the aggregated measures

To display measures from aggregation nodes:

- 1. In the control properties, select the **Execution** page.
- 2. In the **Aggregated Execution Results** section, the list of aggregated measures appears.
 - Only the internal Control Director and the GRC manager can view this list.

CONTROL EXECUTION REPORTS

To access control execution reports:

In the **HOPEX IRM** desktop, select **Analysis > Controls > Execution**. Different reports are available from the drop-down list.

Detailed Execution Results

This report presents results of each execution campaign session.

Access path

Analysis > Control > Execution > Detailed Execution Results

Parameters

Parameters	Remarks
Campaign	Mandatory
Session	Mandatory

Result

The report is presented as a table:

- in rows: tree of controls in their context
- in columns: results (control level)
 - This report is available only in the **Reports** navigation tab.

Consolidated Execution Results

This report presents aggregated results of controls by entity and by month.

Access path

Analysis > Control > Execution > Consolidated Execution Results

Parameters

Parameters		
calendar		
Begin Date		
End date		
Entity type		
Entity		

Result

The matrix comprises:

- a list of entities: by default, all entities are selected.
 - ► If the "Entity type" parameter is specified, selected entities correspond to this specified entity type.
- a Total number of controls: number of controls linked to the entity (or its sub-entities).
- a **Total number of instances**: controls are counted as many times as there are contexts for the same control.

If a control is assessed in the framework of two different entities, the control is counted twice: HOPEX Internal Control distinguishes two instances of the assessed control.

- for each month:
 - a Number of assessed instances
 - a number of instances considered as satisfactory ("pass")
 - a % of instances considered as satisfactory ("pass")

Following Up Execution Sessions

This report enables follow-up of assessment sessions of "Execution" type.

Access path

Analysis > Control > Execution > Execution Session Follow-Up

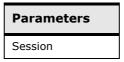
Availability

This report is also available from a particular execution session.

To access this report from an execution session:

- 1. In the properties of an execution campaign, select the **Sessions** tab and open the properties page of an assessment session.
- 2. Select the **Reporting** tab, then **Follow-Up**.

Parameters



Result

A summary displays general information on the current session.

This report presents charts concerning campaign progress:

- Percentage of completed questionnaires
- Distribution of questionnaires by status
- Distribution of questionnaires delegated/not delegated
- Distribution of questionnaires by status, for each respondent
- Distribution of questionnaires by status, for each assessed object

CONTROL TESTING

Control tests can be carried out to complement operational management reviews. These tests consist of carrying out an internal audit on controls. **HOPEX Internal Control** allows internal controllers to:

- ✓ execute tests on site by completing test sheets
- √ assess these executed tests
- \checkmark assess controls in terms of design and efficiency by means of questionnaires.
- √ implement action plans to improve controls for which issues have been identified.
- √ complete expense sheets and time sheets

The testing process consists of three phases:

- ✓ "Preparing Control Testing", page 56
- ✓ "Preparing Tests", page 65
- √ "Executing Tests", page 79
- √ "Test Follow-Up", page 88

PREPARING CONTROL TESTING

To prepare control testing by the internal control team, you can specify a certain number of characteristics on controls.

You must also create questions that will be used to generate test sheets. To do this, you must create testing steps.

See also "Contextualizing Controls".

Defining Testing Methods

To specify control test characteristics:

- In the control properties, select the **Testing** tab.
 The **Testing Method** section presents characteristics concerning testing.
- 2. Specify the **Testing Frequency**:
 - Yearly
 - Quarterly
 - Bi-Yearly
- 3. Specify the **Testing Method**:
 - Inquiry
 - Inspection
 - Observation
 - Re-performance
- **4.** Specify the **Testing Population Size**: the total number of objects that could be controlled (for example: 1000 invoices or 100 contracts).
- 5. Specify the **Testing Sample Size**: value inherited by test sheets by default.
 - For more details, see "Specifying or modifying the sample size", page 80.

Defining Test Sheet Questions

You must define testing steps on controls to be able to generate test sheets used by internal controllers.

You can:

- initialize testing steps from control steps previously defined on the control (used for check-lists in the framework of execution campaigns)
 - For more details on control steps, see "Defining questions on controls", page 37.
- add, modify or delete testing steps

Initializing testing steps

Control steps must already exist on the control to be able to initialize testing steps. For more details on control steps, see "Defining questions on controls", page 37.

To initialize testing steps from control steps:

- Click the icon of a control and select Initialize Testing Steps.
 - ► The menu is grayed if testing steps already exist for this control.

Testing steps (specific or inherited) are created from control steps already existing on the control.

Creating testing steps

You may need to create testing steps in addition to those automatically created from control steps.

For more details on control steps, see "Creating questions", page 38.

Two types of testing step are available:

- **Specific testing steps**: specific to the current control
- Inherited testing steps: applicable to all controls

To create testing steps:

- 1. In the control properties, select the **Testing** tab.
- 2. Expand the **Testing Steps** section.

Two subtabs are available:

- Specific testing steps
- Inherited testing steps

When defining testing steps specific to the current control, you can at the same time define testing steps applying to all controls.

- ► In the **Inherited Testing Steps** subtab, only the inherited testing steps meeting specified conditions and applying to the current control appear. For more details on conditions, see "Conditioning test sheet questions", page 57.
- 3. In one of the subtabs, click New.
- 4. In the **Title** field, enter a question.
- 5. Indicate the question type, for example "OK/NO".
 - For more details on question types, see "Question/answer types", page 37.
 - You can reorder testing steps to define order of appearance of questions. To do this, click the **Reorder** button.
- 6. Click OK.

Conditioning test sheet questions

You can condition presence of a question in a test sheet according to certain criteria. These criteria are defined in the conditions (called MetaTests) applicable to inherited control steps.

Creating conditions on inherited testing steps

To create a condition on inherited testing steps:

- In the navigation menu, select Test > Execution > Preparation >
 Conditions on Control Steps.
- 2. Click New.
- 3. The properties of the MetaTest just created, define the **Test Expression**.
 - You can also create the MetaTest in HOPEX Windows Front-End.
 For more details, see HOPEX Power Studio, HOPEX Studio Publisher, "Creating consistency checks", paragraph "Defining an implementation test".
- 4. Click OK.

Managing inherited testing steps and their conditions

To access inherited testing steps:

In the HOPEX IRM desktop, select Test > Execution > Preparation > Inherited Testing Steps.

All testing steps present in the solution appear here.

To access conditions applicable to inherited testing steps:

- In the HOPEX IRMI desktop, select Test > Execution > Preparation > Conditions on Testing Steps.
 - ► You can connect a condition to an inherited testing step in the properties of the latter.

Managing Teams

Before planning tests, appropriate teams must be set up and roles and responsibilities assigned.

You must previously define:

- skill types
- skills list
- skill levels

Tools are available that enable definition and display of the skills of team members.

Creating Controllers

To create a controller, you must create a person and associate the "Control Tester" profile.

For more information on creation of users and assignment of profiles, see the chapter "Managing Users" in the **HOPEX Power Supervisor** guide.

Creating skill types

To create a skill type:

- In the HOPEX IRM desktop, select Administration > Skill Management > All Skill Types.
- 2. Click New.
- 3. Enter a **Name** for the skill type, for example "Languages".
- 4. Click OK.

Creating skills

To create a skill:

- In the HOPEX IRM desktop, select Administration > Skill Management > All Skills.
- 2. Click New.
- 3. Enter a Name for the skill, for example "English".
- 4. Click OK.

The new skill is added to the list of skills.

In properties of the skill you can indicate the **Skill Type** to which it is attached, for example "Languages".

Creating skill levels

You must now create skill levels to be associated with each skill type.

To create a skill level:

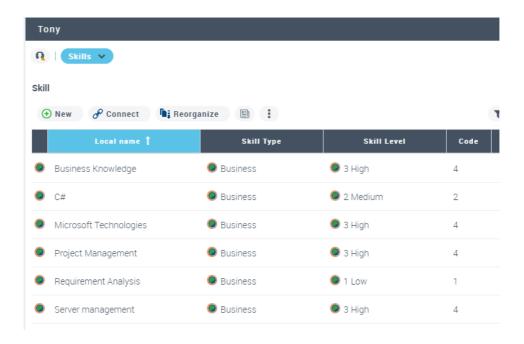
- In the HOPEX IRM desktop, select Administration > Skill Management > All Skill Types.
- 2. Open the properties of the skill type that interests you.
- 3. In the **Skill Levels** section, click **New**.
- 4. Enter a Name, for example "Beginner".
- 5. Click OK.
- 6. In **Skill Level Value**, enter a figure corresponding to the skill level, for example "1" for "Beginner" (while "4" could correspond with "Experienced" in our example).
 - This figure gives a graphic view of the extent of controller skills in the test assignment page.

Defining skills for each user

To define the skills of a user:

- In the Administration navigation pane, select Skill Management > View Users With Skills.
- 2. Select a user and click the **Person Properties** button.

3. In the properties, select the **Skills** page. You can specify user skills as a function of previously defined skill types and skill levels.



Example of skills

Viewing skills

To view the skills and skill levels available within the team:

 In the HOPEX IRM desktop, select Administration > Skill Management > Manage Skills with Users. A list appears. You can sort the list by skill, skill level and user by clicking the header of the corresponding column.



Managing Currencies

Currencies are used in the framework of tests for completion of expense sheets.

Two currency types should be distinguished:

- central currency
 - Central currency is the currency adopted as reference currency.
- local currency
 - A local currency is defined for each user. By default it is the same as central currency.

Defining Central Currency

Central currency is the currency adopted as reference currency.

To define central currency:

- 1. In the Administration application (administration.exe), login to the environment of interest to you.
- Right-click the repository and select Options > Modify. The repository options window opens.
- 3. Select the **Installation > Currency** folder.
 The list of currencies available as standard appears on the right.
- In the Monetary Symbol field, specify the symbol of your consolidation currency, for example "\$".
- In the Central Currency field, select your consolidation currency, for example "US Dollar".
- 6. Click OK.
- **7.** Exit the Administration application.

Defining Local Currency

You can choose a local currency different from the central currency. To do this, you must connect to **HOPEX Windows Front-End** with your login.

A local currency is defined for each user. By default it is the same as central currency.

To modify user local currency:

- 1. Start HOPEX Windows Front-End and connect with your login.
- In the desktop, select Tools > Currency and select the currency that interests you.
- 3. Exit **HOPEX**, dispatching your private workspace.

When you reconnect to **Web Front-End** with your login, the currency proposed by default for your expense sheet expenses is the currency you have just defined.

Modifying User Local Currency

A local currency is defined for each user. By default it is the same as central currency.

Local currencies proposed to users of the application are defined with the **HOPEX** Administration application.

To define the list of local currencies:

- 1. In the folder where **HOPEX** is installed, launch "Administration.exe" and connect with a user that has data administration authorization rights.
- **2.** Select the environment then the repository on which you want to work.
- **3.** Right-click the repository and select **Options**. The repository options window opens.
- Select the Installation > Currency folder.
 The list of currencies available as standard appears on the right.
- 5. Then select all the currencies that will be used locally by your users.
- 6. Click OK.
- 7. Exit the Administration application.

Managing Exchange Rates

To enter an exchange rate:

- In the HOPEX IRM desktop, select Administration > Tools > Exchange Rate.
- 2. Click New.
- 3. In the window that appears, enter:
 - the Currency Code To.
 - the **Rate** of the source currency related to the final currency.
 - the Rate Date Begin.
 - Several exchange rate periods can be entered for the same currency. When entering expenses, the most recent exchange rate is taken into account.
 - You must enter the exchange rate in both directions, for example:
 - EUR->USD
 - USD->EUR

To view an exchange rate:

- In the drop-down lists above the table, select the source and final currencies.
- 2. Click Refresh.

The exchange rates for the selected currency appear.

▼ To reverse the exchange rate, click button



Configuring Time Sheets

Time sheets are used in the context of audits/tests.

The functional administrator can configure time sheet default options.

The functional administrator can define:

- number of hours worked per day
- days not worked in enterprise

To configure this data:

- 1. From the main menu, select **Settings > Options**.
- In the window that appears, expand the folders Installation > User Management.
- 3. In the right pane of the window, specify:
 - the number of Hours/Day for each auditor.
 - ► Default value is "8".
 - days corresponding to weekend
 - ► Default values are "Saturday" and "Sunday".

Managing Campaign Calendars

Assessment campaigns are based on calendars divided into calendar periods.

A campaign calendar enables planning of campaigns and their division into periods called calendar periods. Campaign calendars can also be used in reports or to plan audits or tests.

A calendar often covers a period of one year, either a fiscal year or a calendar year. In the latter case, a calendar period can correspond to a quarter.

Creating Calendars

To create a calendar:

- 1. In the navigation menu, select **Test > Preparation > Calendars**.
- 2. In the right pane of the window, click **New**.
- 3. Enter the **Name** of the calendar and its begin and end dates.
- 4. Click OK.

You can then define calendar periods.

Creating Calendar Periods

To create calendar periods:

- 1. Open the **Properties** of the calendar.
- 2. Click the **Characteristics** tab.
- 3. In the Calendar Period section, click New.
- 4. Enter the **Name** of the calendar period and its begin and end dates.
- 5. Click OK.
- **6.** Create other calendar periods in the same way.

The calendar is created. It can then be connected to a test plan.

Connecting a Calendar to a Test Plan

To connect a calendar to a test plan:

- 1. In the navigation menu, select **Test > Preparation > Plans**.
- 2. Open the properties of the test plan that interests you.
- 3. Click Characteristics.
- In the Calendar field, click the arrow and select List to display the list of calendars.
- **5.** Select the calendar to be connected to the test plan.
- 6. Click OK.

PREPARING TESTS

Functionalities described here essentially concern the GRC manager.

The lead controller intervenes to define the work program, which enables:

- execution of test activities
- assessment of controls by means of questionnaires

Preparation of tests consists of creating a test plan and tests, and planning these before controllers intervene in the field.

To prepare tests:

In the HOPEX IRM desktop, select Testing > Preparation.

Creating a Test Plan

The test plan is prepared by the internal control director.

The plan is generally defined on a period of one year. This plan contains all tests to be executed in the year.

The test plan is a description of the expected scope and conduct of the audit. It is carried out in accordance with auditing standards and practices. It comprises a description of the audit approach and the planning schedule. It comprises several tests carried out during a given period.

To create a plan:

- 1. In the **HOPEX IRM** desktop, select **Test > Preparation > Calendars**.
- Right-click the Plan folder and select New > Plan. The new plan appears.
- 3. Open the properties of the plan.
- 4. In the **Characteristics** tab, modify the **Name** of the plan.
- 5. Select the **Nature** of the plan:
 - Audit
 - Test
 - Compliance
 - Mixed
 - **►** If you have only the **HOPEX Internal Control** solution, the plan nature is automatically specified and cannot be modified.
 - Depending on the selected nature, a **Tests** and/or **Audits** tab appears in the properties of the plan.
 - ► If you selected "Test" or "Mixed" values, an assessment campaign is created at validation of the plan. This will enable generation of questionnaires to internal controllers for assessment of controls. For more details, see "Assessing controls".
- **6.** Select the **Calendar** of the plan.
- 7. Modify the **Begin Date** and the **End Date** if necessary.
 - The **Status** is defined automatically by the workflow.
- 8. Click Save.

The plan is created.

You can now create tests directly in the plan page.

Planning Tests

Test planning is carried out by the GRC Manager.

A test is assigned to a controller in the framework of a plan.

Creating a test

To create a test:

- 1. Click **Testing > Preparation > Plans**.
- **2.** Open the properties of the plan that will include the test to be created.
- **3.** Select **Tests** in the drop-down menu at the top of the page.
- 4. Click New.

The new test appears under the plan.

► To define characteristics of the test, see "Defining test properties".

Accessing tests

To access tests of a test plan:

- Click Testing > Plans and expand a plan. The tests (or audits, depending on the plan nature selected) corresponding to the plan appear.
 - ➤ You can also access the list of tests via the menu **Test** > **Preparation** > **Tests**.

Defining test properties

You can specify certain information on tests.

General characteristics

General characteristics of the test are:

- Name: test name.
- **Code**: you can assign a code to the test.
- **Included in the Initial Plan**: this attribute is defined automatically according to plan status at the time of creation of the test. It indicates if the test was present at plan creation, or if it was added later.
- Entity controlled
- Lead Controller: lead controller name.
- Main Control Correspondent
- **Objective** of the test.
- Category of the test:
 - "Compliance"
 - "Efficiency"
- **Status** of the test: this attribute is defined automatically and modified at workflow transitions.

Justification and workload

In this section you can enter the following characteristics:

- Justification of the test
- Origin: follow-up, specific, recurrent, etc.
- **Priority**: priorities can be specified for tests. You can select tests to be integrated in the plan based on this priority criterion.
- Estimated Duration (days).
- Estimated Number of Resources
- Estimated Workload
 - **★** The following characteristics are automatically calculated:
 - **Effective Workload (Hours)**: calculated from the effective workload defined on time sheets or on activities if no time sheet has been entered.
 - Estimated Number of Resources

Scope?

You can connect business or organizational processes to the test.

These can be used to automatically generate the test work program.

For more details, see "Completing the work program manually".

Milestones

In the **Milestones** section, you can indicate a **Planned Begin Date** and a **Planned End Date**. These dates constitute audit milestones.

You can choose to enter milestones at a later stage.

Users

In the **Users** section, you can specify test participants:

- Test Controller: controllers having been previously defined, you can connect but not create controllers. See "Assigning resources to tests".
- Person tested
- Other Participant in Test (for information only)

Skills

You can specify skills required by controllers to execute tests.

To define skills required for the test:

In the **Skills** frame, click **New** or **Connect** to create a skill or connect an existing skill.

When assigning controllers to a test, you will be able to compare skills of controllers with skills required for the test. For more details on the report providing this information, see "Assigning resources to tests".

Summary

In **Summary** of the completed test, you can indicate:

- Key Strengths
- Key Weaknesses
- **Evaluation**: good overall level, can be improved, etc.

Creating "template" tests

"Template" tests are work programs specially prepared to be applied to new tests.

This status is exclusively reserved for tests of a plan which is itself defined as a template. It applies automatically to existing tests of the template plan, and is proposed at creation of a new test on this same plan.

To define a test plan as a template:

- Click Test > Preparation > Plans.
 The list of plans appears in the edit window.
- Click the icon of the plan in question and select To Be Validated > Set As Template.

Selecting tests to be executed

HOPEX Internal Control provides decisional help in selecting tests to be executed.

You can sort tests according to certain criteria, in order to:

- view previous tests
- find tests planned but not finally executed

Viewing the test coverage report

HOPEX Internal Control supplies a report providing information on the number of tests executed on each entity between two dates. It indicates entities that require testing, and enables generation of the corresponding tests.

To access this report:

- 1. Click Test > Preparation > Entity Coverage.
- 2. In the edit window, select a begin date and end date.
- **3.** If required, select the score obtained by the test or its status.
- **4.** Refresh the report by clicking the Refresh button at the bottom of the report.

For each tested entity the report presents:

- the Number of tests executed between the two dates (effective begin and end dates)
- the name of the last **Test**.
- the **End date** of the last test (effective end date), or its state if it is still
 in progress
- the **Score** of the last test.

To generate tests corresponding to one or several entities:

Select the entity or entities that interest you and click the Generate Tests button.

A wizard asks you to choose a target plan. The tests are generated.

Consulting test histories

Consulting the history of tests can simplify your choice of tests to be executed.

In the list of tests, you can consult assessments of the test. You can sort tests based on this criterion, allowing you to create tests on appropriate entities.

To group tests by assessment:

- 1. Select **Test > Preparation** then **Tests**.
- 2. Click the "Evaluation" column title.

Tests are then sorted by this criterion.

An arrow associated with the column enables ascending or descending sort order.

Consulting tests not executed

Tests can remain in "Published" status never to be executed, due to another test being of higher priority.

Tests published or in progress can also be canceled via the workflow.

Grouping tests by status enables identification of those that must be recreated on a subject.

To find tests not executed of a previous test plan:

1. In the navigation menu, select **Test > Preparation > Tests**.

- 2. In the list of tests, click the title of the "Status" column.
 - ► If the column does not appear, you can display it using the arrow located at extreme right of a column header.

Tests are then sorted by this criterion.

An arrow associated with the column enables ascending or descending sort order.

Test assessment and status are defined in its properties. For more details, see "Defining test properties".

Viewing previous test expenses

A report allows you to view expenses of previous audits.

To access this report:

- 1. Click Test > Preparation > Plans.
- 2. Select a Plan and open its properties.
- 3. In the drop-down list, select **Plan Reports > Expenses**.

You can view expenses:

- By category
- By resource (auditor, controller or tester)

Selecting tests to be integrated in the test plan

Tests become active after validation only. Among all tests, some are part of the definitive plan, while others are discarded.

HOPEX Internal Control proposes tools simplifying selection of tests to be integrated in the plan.

Discarding tests

Potential tests considered of low priority can be discarded via the workflow.

To discard a test:

- 1. Click Test > Preparation > Potential Tests.
- Click the icon of the test to be discarded and select To Be Validated > Discard.

The test is discarded but not deleted. It could serve as a template for a new test the following year.

Validating tests

You can validate tests:

- globally, at validation of the test plan
- individually

Planning tests using a Gantt chart

A report allows the internal control director (or GRC manager) to plan the different tests of a test plan.

To display this report:

- 1. Under **Testing** > **Plans**, select the plan in question. The plan properties appear in the edit area.
- 2. In the drop-down list of the property page, select **Schedule**. A Gantt chart describes tests of the plan.

By default, planning relates to the current year, but you can view audits over a more precise period.

You can redefine the Gantt chart display period:

- by selecting a calendar period.
- or specific begin and end dates.

You can modify test dates in the diagram:

- by moving the period begin or end dates using the mouse.
- by clicking the center of the period and by moving the mouse to simultaneously move the begin and end dates.

Zoom functions allow you to customize display (zoom in and out in the calendar).

You can add tests from this chart.

Assigning resources to tests

Before assigning a resource to a test, you can view its availability and skills.

Viewing resource availability

To view resources available with necessary skills for a test:

- 1. Open the properties of the test plan concerned.
- 2. In the drop-down list select Plan Reports > Resource Allocation. By default, the report presents tests of the test plan over the year. You can display those of a particular period.
- 3. In the table at top left, select a test.
- 4. In the table at top right, select a resource of which you wish to display availability.
 - You can select several resources.
- 5. In the lower frame "Assign Resources", click the **Refresh** button 2.



Two charts present:

- Skills required by the test and skills of the selected resource.
- Availability of the resource on test dates. The color of the test period depends on the number of resources assigned to it related to the estimated number of resources:
 - Green if the test has a sufficient number of resources
 - Orange if resources are insufficient
 - · Red if no resources are assigned
 - These two charts should be refreshed separately.

Assigning a resource to a test

To assign a resource to a test:

- In the Assign Resources page of the test plan properties, in the top left frame, select the required test.
- **2**. In the frame at top right, select a person.
- 3. Click the Assign button.
 - To remove a controller from the test, carry out the same procedure, but click the **Unassign** button.

Specifying a lead controller for a given test

To specify the lead controller on a test:

- **1.** Open the properties of the test concerned.
- 2. Specify the Lead Controller field.

Sending the Notification Letter

After having completed the specifications required for execution of a test, the internal control director can send a notification letter informing controlled persons of the test.

Sending this notification letter is not included in the workflow. It precedes the next step in the workflow which consists of publishing the test.

Creating notification letters

To create the test notification letter:

Click the icon of the test and select Deliverables > Notification Letter. A message asks if you want to open or save the file. The document presents the comment entered in characteristics of the test.

When the document has been saved, you can open and modify it.

You can also connect it to the test as a business document, under the "notification letters" category.

Connecting the notification letter to the test

The file is generated from test content, but is not connected by default to the test.

To connect the notification letter to the test and make it a business document:

- 1. Open properties of the test.
- 2. In the drop-down list, select the **Documents** page.
- 3. Click the **New** button.

The Creation of Business Document dialog box appears.

- 4. Indicate the business document name.
- 5. In **File Location**, click the **Browse** button. The **File Location** dialog box appears.
- 6. Click **Browse** and select the file.
- 7. Click Upload.
- 8. In the document creation dialog box, in **Document Pattern**, select "Notification Letter".

9. Click OK.

The document appears in the list of documents attached to the test.

Validating tests

When the internal control director decides that a test should be executed as part of the test plan, he/she validates the test.

An assessment session is created. This will enable generation of questionnaires to internal controllers for assessment of controls. For more details, see "Assessing controls".

Publishing tests

HOPEX Internal Control enables preparation of tests and only making these public to controllers when planning is completed.

To make a test public:

- 1. Right-click the icon of the test.
- 2. Select To Be Published > Publish.

Test status changes to "Published".

Having been published, tests appear in the work program of controllers.

Preparing Tests

Supervision of test progress is assured by the lead controller. In the test preparation phase, he/she establishes the work program and assigns activities to controllers.

Work program creation prerequisites

So that the work program can be generated:

- processes (organizational or business) must be connected to the entity
- · controls must be connected to processes

Work program content

HOPEX Internal Control enables automatic creation of a work program structure from:

- the tree of processes connected to the entity, or
- the processes specified in the test scope
 - ► If no process has been specified in the test scope, all processes connected to the entity will appear in the work program.

Environment objects	Objects created in the work program
Process (organizational or business)	Test theme
Control (connected to process)	Test activity

★ The entity is represented by the test.

Test theme

A theme corresponds to a process.

Themes can be used to group test activities and workpapers, that is to organize test content.

Test activity

A test activity corresponds to a control.

It is the basic element of the test. It enables assignment of responsibility to the controller.

Workpaper

A workpaper comprises points to be checked on a given subject in the course of an audit activity.

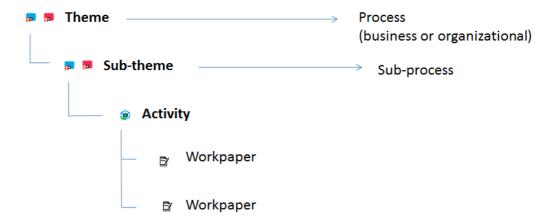
A workpaper is generated for each generated test activity. For more details, see "Creating workpapers".

Creating work programs automatically

To create a work program automatically:

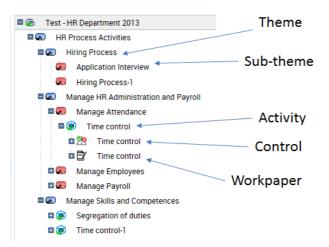
Click the icon of the test and select Generate Work Program.
This command will duplicate the tree of processes for the entity in the scope of the test.

If processes are explicitly specified in the test scope, only these processes will be automatically generated in the work program structure.



Completing the work program manually

The lead controller can complete the test manually to specify its content. He/she can add or remove themes/activities in the **Work Program** tab of the test.



Creating themes

To create a theme:

- 1. In the properties of a test, select the **Work Program** page.
- Click the icon of the test and select New > Test Theme.
 The theme created appears in the tree of the work program.

3. Display properties of the theme.

You can:

- modify its name
- select a parent test theme (if you want to create a tree of themes)
- connect the test theme to a process
- enter a comment
- 4. Click OK.

You can view the tree of themes and sub-themes created. You can now create activities and workpapers.

Creating activities

A test activity is a test element relating to a control.

To create an activity:

- 1. In the properties of a test, select the **Work Program** page.
- 2. Click the icon of the test (or theme) and select **New > Test Activity**. The activity created appears in the tree of the work program.
- **3.** Display properties of the activity.
- 4. Enter the name of the activity.
- **5.** Connect the activity to a **Theme** if you want the activity to be located under a theme in the tree.
- **6.** Connect the test activity to a control.
- Select the Owner of the test activity, who can be a controller or the lead controller of the current test.
- 8. Indicate the Estimated Workload.
 - You can later manually enter the effective workload on this activity.
- 9. Click OK.

Assigning activities

For each activity, the lead controller specifies:

- Start and end dates
- Estimated workload
- Controller responsible for execution

To enter this data:

- 1. In the properties of the test, select the **Activities** page.
- **2.** Open the properties of the test activity concerned.
- **3.** In the **Test Activity Owner** field, using the right-pointing arrow, select a controller from among the candidate controllers.
- 4. Enter test activity start and end dates.
- 5. Specify the workload.

Reviewing the Work Program

The lead controller can proceed with a report on the work program. This report enables a check that:

- task assignment has been correctly carried out
- the work program covers the appropriate risks and processes

Consulting the work program report

To access work program reports:

In the page of a test, select **Reports** > **Work Program**.

You can view:

- comparison of resources allocated and resources available:
- workload (in person/days)
- workload by theme (in person/days)
- activities by theme

Exporting the workload under Excel

The work program under Excel covers themes, sub-themes, activities and workpapers.

Having the work program available under Excel allows:

- consultation of the complete work program without having to access objects individually
- storage of a printed version of the work program
- viewing tasks to be executed at indication of an issue

To export the work program:

- In the **Work program** page of the test, right-click the tree root and select **Deliverables** > **Export Work Program (Excel)**.
 - A pop-up window opens at the bottom of the page. If your navigator blocks these windows, you cannot see file export. In this case, deactivate pop-up blocking in the navigator.

You can then modify the work program in Excel.

When the work program has been modified, you must create a business document in **HOPEX Internal Control** and reimport the modified work program.

To create the business document corresponding to the modified work program:

- 1. In the properties of the test, select the **Documents** page.
- 2. Click the New button.
- **3.** Enter the name given to your work program.
- **4.** Select the location where you stored the modified Excel file and click **Upload**.
- 5. Select the "Work Program" document template.
- 6. Click OK.

The modified work program is now stored in the **HOPEX** repository.

Validating work programs

When the lead controller validates the work program via the workflow, an assessment session is automatically created and connected to the test. Assessment questionnaires are generated and made available from test activities. Respondents are owners of test activities.

For more details, see "Assessing controls".

To validate the work program:

Click the icon of the test and select **To Be Validated** > **Validate**.

Executing administrative tasks

Planning resources

Auditors/controllers can be assigned to different audits/tests at the same time. It is therefore important to enter the time allocated for each auditor to an audit.

To indicate for each auditor/controller the time to be allocated to an audit/test:

- 1. In the properties of the audit, expand the **Users** section.
- Select a user and in the Workload (Hours), enter the time to be spent on the audit/test.

Creating general tasks

For controllers, the director can create tasks not directly linked to tests.

To create a general task:

- 1. Select Testing > Preparation > General Tasks.
- Specify dates and a comment and connect users to this task. Users assigned to this task can allocate hours to this task in their time sheet.

Validating Vacations

To display vacations in auditor time sheets, you must previously have validated the vacation.

To validate the vacation:

- Select Test > Preparation > Vacation Requests and open the properties of the vacation to be validated.
- 2. Position its status as "Validated".

Initializing expense sheets

The lead auditor can create an expense sheet per auditor/controller for all auditors/controllers assigned to the audit/test. In this case it consists of initializing expense sheets.

To initialize expense sheets:

- 1. In the audit/test properties window, select the **Expenses** page.
- Click the Initialize button. An expense sheet is created for each auditor/controller.

To create an expense:

- In the expense sheet properties, expand the Expenses section and click New.
- **2.** Enter for each expense:
 - an Amount
 - a Date
 - the Expense Category: "Lodging", "Food and Beverages", "Transportation"
 - a **Comment** if required.
 - The auditor enters the amount in the desired currency. The converted amount is calculated automatically.

EXECUTING TESTS

► Procedures described here apply to the "Internal Controller" profile only.

Preparation of a test work program allows internal controllers to:

- execute tests on samples using test sheets.
 - These test sheets are presented in the form of check-lists. Questions are asked for each object present in the constituted sample.
- assess controls in terms of design and efficiency by means of questionnaires.
 - These are the same questionnaires as those covered in the chapter concerning assessment campaigns.

Consulting the Work Program

The controller needs to consult:

- his/her work program.
- the global work program, for a clearer view of tasks to be executed.

To access your work program:

- From the navigation menu, click Test > Preparation > Work Programs.
 - To print the work program you can export it under Excel. For more details, see "Exporting the workload under Excel".

Executing Tests on Samples

Internal controllers execute the test steps defined on controls on samples.

To be able to complete test sheets, you must first:

- · generate or create workpapers
- specify or modify test sample size
- generate the test sample
- define test sheet questions

Creating workpapers

Workpapers are folders or work documents that serve as a basis for the controller in execution of the test.

► Workpapers are created automatically at generation of the work program. For more details, see "Work program content".

To create a workpaper manually:

- 1. In the properties of a test, select the **Work Program** tab.
- 2. Select the activity concerned and display its properties.

In the Characteristics page of the activity, Workpapers section, click the New button.

The workpaper appears:

- in the test activity page
- in the tree of the test work program
- **4.** In the work program, select the paper to display its **Properties**.
- **5.** Enter a name and your comments.
- 6. Click OK.

Specifying or modifying the sample size

The controller must specify the size of the test sample on the workpaper. This is the number of elements to be tested.

To specify sample size:

- 1. In the properties of a test, select the **Work Program** page.
- **2.** From the work program, open the properties of a workpaper.
- 3. Specify the Sample Size.

This is the size of the sample selected for testing.

▶ By default, the value is inherited from the sample size specified on the control. For more details, see "Defining Testing Methods".

Generating the test sample

Test samples are generated directly from information available on the control (test steps).

To generate samples:

- 1. In the properties of a test, select the **Work Program** page.
- 2. From the work program tree, click the icon of a workpaper and select **Generate Test Sample**.

Depending on the previously specified sample size, a message informs you of the number of elements that will be created in the test sample. Generated test samples are available in the properties of the workpaper

Defining test sheet questions

Workpapers contain test sheets, which represent in tabular form the points to be executed. These test sheets contain:

- in rows, the elements of the sample to be controlled
- in columns, the questions (represented by test steps)

You must define check-list questions before being able to generate test sheets.

For more details, see "Preparing Control Testing".

Completing the generated test sheets

To be able to view test sheets, you must first:

- define test sheet questions
 - See "Defining Test Sheet Questions".
- generate the test sample
 - See "Generating the test sample".

To view the test sheet:

- In the properties of a test, select the Work Program page.
- 2. Open the properties the question that interests you.
- 3. Select the **Test Sheet** tab.
 - This test sheet presents:
 - · in rows, the elements of the test sheet to be controlled
 - in columns, the test steps

You can reply to the questions in the columns provided.

Test sheet questionnaires are distinguished from assessment questionnaires. For more details on assessment questionnaires, see "Assessing controls".

Assessing test activities

Having specified test sheets, the controller can globally assess the test activity.

This "expert view" assessment can be based on results of test sheets, or not.

To assess the test activity:

- 1. Open the properties of the test activity.
- 2. In the **Test Result** field, specify if the test has:
 - Failed
 - Passed
 - Not yet been assessed

Assessing Controls

Internal controllers must assess controls in terms of design and efficiency.

This assessment uses standard assessment campaign mechanics. Generated questionnaires are distinguished from those corresponding to test sheets.

Generating questionnaires

The questionnaires are generated at validation of the work program.

For more details, see "Validating work programs".

Responding to Questionnaires

You can answer control assessment questionnaires:

- on a test
- on each activity of a test

To view test questionnaires:

- 1. From the navigation menu, click **Test > Preparation > Tests**.
- 2. In the properties of the test, expand the **Assessment** section.
- 3. Select a questionnaire and click **Display Questionnaires**.
- **4.** Select the questions and reply to these in the lower part of the window.
- 5. Click Save.

To view test activity questionnaires:

- 1. In the properties of a test, select the **Work Program** page.
- **2.** In the pop-up menu of a test activity, select **Assessment**.

Managing Time and Expenses

Managing expenses

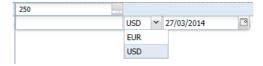
Auditors/controllers assigned to an audit/test can create expense sheets on this audit /test. In this case, they must submit their expense sheet to the lead auditor via a workflow.

To create an expense sheet:

- In the HOPEX IRM navigation menu, select My tasks > Test > My Expenses.
- 2. Click New.
- 3. In the **Expense Owner** field, select the audit/test concerned.
 - You can also create an expense sheet in the **Expenses** page of the audit/test properties. In this case, you do not need to specify the expense owner.
- 4. Click OK.

An expense sheet is created. You can now create associated expenses.

- 5. In the **Expenses** section of the expense sheet, click **New**.
- 6. In the properties of the expense sheet, enter an Amount and a Date: you can enter the amount in the currency you require (from those you can access).



- The amount is converted to the currency configured for your user.
- **7.** Specify if required:
 - the Expense Category: "Lodging", "Food and Beverages", "Transportation"
 - a Comment.

- 8. Click the icon of the expense sheet and submit it via the workflow.
 - The lead auditor does not need to seek approval for his/her expense sheets.
 - You can export to Excel the data contained in expense sheets.

Entering vacations

Entering vacations enables to:

- improved planning of test campaigns.
- pre-filling time sheets.

To enter a vacation:

- In the HOPEX IRM navigation menu, select My tasks > Test > My Vacation Requests.
- Click New.
- 3. In the properties, select the associated Plan.
- 4. Also specify:
 - Vacation Type (holiday, training, other)
 - planned and effective begin and end dates
 - a comment if required
- 5. In the Status field, select "Submitted".
 - So that the vacation will appear in the time sheet, the lead controller must have validated the vacation (by positioning its status value on "Validated").
 - An auditor/controller can modify or delete a vacation as long as the vacation has not been validated.

Completing a Time Sheet

Auditors/controllers can complete time sheets in the framework of their audit/test.

To complete a time sheet:

 In the HOPEX IRM navigation menu, select My tasks > Test > My TimeSheets.

The time sheet displays one line per audit/test.

- 2. Enter for each day the number of hours spent on each audit/test.
- 3. Click **Submit** to save your time sheet.
- 4. Click **Next** to enter your hours concerning the next week.
 - Messages may appear if the activity report is not consistent. For example, if hours have been allocated to an audit/test and the audit/test has not yet started. You can submit an incomplete time sheet.

The time sheet enables entry for each day and for each week the number of hours spent on each audit/test.

Only those audits/tests that have been published are visible in the time sheet.

The time sheet also shows:

- · vacations that have been validated
- general tasks (meetings, training, team management, administration ...)

management of issues and action plans

The controller completes the work program by entering:

- Issues
- Action Plans

Managing issues

Creating Issues

Issues are accessible from test activities.

To create an issue:

- In the HOPEX IRM navigation menu, select My tasks > Test > Activities to Perform.
- Click the icon of the activity concerned and select New > Issue.
 The issue appears in the work program tree as well as in the properties of the activity.

Saving test evidence

You can connect documents to illustrate an issue.

To add a document as an attachment:

- In the tree of the work program of a test, select an issue to which you wish to add a document.
- 2. Expand the **Attachments** section.
- 3. Click New.

The business document creation window opens.

A business document is a document whose content is independent of the repository. This document can be MS Word, MS Powerpoint, or other files. A report (MS Word) generated on an object can become a business document.

- 4. Indicate the business document name.
- 5. In **File Location**, click the **Browse** button. The **File Location** dialog box appears.
- 6. Click **Browse** and select the file.
- 7. Click Upload.
- 8. Click OK.

The document appears in the list of documents attached to the issue. It is owned by the test of the issue. You can therefore also see it appear in the **Documents** tab of the test.

Managing action plans

Action plans can be created from issues.

To create an action plan:

In the properties page of an issue, expand the Action Plans section and click New.

The action plan appears in the section.

To define properties of the action plan:

- 1. Select the action plan and click **Property**.
- 2. Modify its **Name** if required.
- 3. Select a level of Priority.
- **4.** Specify the **Means** implemented for the action plan.
- 5. Modify the **Owner** if required.
 - By default the owner is the action plan creator.
- 6. Select an Approver.
 - **▶** By default the approver is the action plan creator.
- 7. Click OK.

Supervising Tests

The lead controller must validate the work of controllers via the activity workflow.

He/she can then check their work and assure test follow-up. To simplify the task, reports enabling test check are available on each test.

Test check reports

To access test check reports:

In the properties of a test, select the **Reports > Supervision** page.

Three reports appear:

- Issue Objectivity: to ensure objectivity of issues, evidence must be provided.
 - The figure displayed represents the percentage of issues with at least one attachment.
- Work progression by controller
- Controller activity Summary Table

Time sheet follow-up reports

Reports enable follow-up of auditor/controller time sheets.

▼ These reports are available for Compliance Managers only.

To access the Reports tab:

In the navigation menu, select Test > Follow-up > TimeSheet Reports.

Three reports are available from a drop-down list.

Time sheets by auditor

This report presents auditor time sheets over a given period

- number of hours assigned for the audit
- effective number of hours in week
- number of hours accumulated since start of audit
- number of hours remaining
- last allocation of auditor on audit
- last time sheet of the auditor
- progress of auditor on audit (in progress, completed..)

Time sheets by audit

This report presents all time sheets for a given audit.

Incomplete days by auditor

This report presents the list of incomplete days, that is days of which the number of hours declared is less than daily work duration.

Press **Validate** to validate the Time Sheet.

Test expenses reports

To view expenses of an audit/test:

In the properties of a test, select the Reports > Work Mission Expenses page.

Pie diagrams present breakdown of expenses:

- by resource (auditor)
- by category:
 - Food and Beverages
 - Lodging
 - Transportation

To view the list of expenses associated with a diagram sector:

Right-click in a sector.
Corresponding results appear as a list in the lower part of the window.

Concluding Tests

Test assessment reports

Reports allow the lead controller to best assess the test and analyze its action plans.

To access the Reports tab:

In the properties of a test, select the **Reports > Assessment** page.

Several reports are proposed:

- Action plan breakdown by priority (low, medium, high)
- Issues by theme
- Summary table of above elements

Generating test reports

The test report uses test elements.

To generate the test report:

- 1. In the properties of a test, select the **Work Program** page.
- Click the icon of the test and select **Deliverables > Test Report**.A message asks if you want to open or save the file.
- 3. Save the file to be able to modify and then submit it.

Assessing tests

To assess the test:

- In the Characteristics page of the test properties, select the Summary section.
- 2. You can indicate:
 - Test Key Strengths
 - Test Key Weaknesses
- 3. In the **Assessment** field, specify a value from:
 - "Good overall level"
 - "Can be improved"
 - "Improvement needed"
 - "At risk"

Terminating tests

When the test is closed:

- the test report is sent to persons interviewed
- action plans are sent to their owner

Closing tests

When the test has been terminated, the internal control director can close it.

- Closing a test closes all objects at a lower level, with the exception of action plans and actions. When these objects have been closed you can no longer modify them.
- ► The administrator can exceptionally reopen these objects if necessary.

TEST FOLLOW-UP

Implementing Action Plans

Accessing action plans

To access action plans:

In the navigation menu, select My Tasks > Action Plans/ Recommendations > Action Plans to Implement. This list presents the action plans assigned to you.

Implementing actions

The action plan owner must create actions.

Creating actions

To create an action:

- 1. Open the properties of a test.
- 2. In the Action Plans tab, select an action plan and click Properties.
- 3. In the **Actions** section, click **New**.
- 4. Open the properties of the action created.
- 5. Modify its name if necessary, enter a date limit and an action owner.
- 6. Click OK.

Sending or submitting the action plan

Actions created and assigned to appropriate users constitute an action plan.

To submit the action plan:

) Right-click the action plan name and select **To Be Sent** > **Send**.

The approver validates the action plan by return.

By default, the approver is the controller who created the action plan.

Action plan implementation follow-up

When the action plan has been validated by the approver, actions are implemented by persons concerned.

Specifying action plan progress

The action plan owner must inform the approver on progress of his/her actions.

To indicate progress of an action plan:

 In the properties of an action plan, expand the Progress Update section.

- 2. Click the New button.
 - A progress state is created.
- 3. In the **Progress Update Percentage** field, specify an action plan execution percentage.
- 4. Enter a comment if required.
- 5. Click OK.
 - Several progress states at different dates can be created.

Following up action plan progress

After a predetermined period, the internal control director or lead controller can request receipt of information on progress of action plans.

To follow up action plan progress:

In the action plan properties, select the **Progress Report** page.

Action Plan Follow-Up

An analysis report assures follow-up of action plans.

To access action plan follow-up reports:

In the HOPEX IRM desktop, select Analysis > Action Plans > Follow-up.

To create an action plan report:

- 1. Click **New** and open the report created.
- 2. In the **Parameters** page, connect the objects that interest you:
 - Processes
 - Entities
- 3. In the **Reports** page, you can view the distribution of action plans by:
 - status
 - progression
 - priority
 - category
 - nature
 - processes
 - entity

Test Plan Follow-Up

HOPEX Internal Control enables follow-up of test plans according to different criteria.

Displaying test plan follow-up reports

Reports enable test plan execution follow-up.

To access test plan reports:

- 1. Open the properties of the plan.
- 2. Select the Plan Reports page.

Supervision

This report offers a summary of test plan tests according to different criteria:

- Origin
- Priority
- Category
- Score
- Status

Workload and resources

This report enables comparison of estimated and effective workloads.

Pie charts show comparison of test design and efficiency.

Resources allocation

The diagram displayed in this report enables comparison of:

- persons available
- persons required
- persons assigned

By default, results relate to the current year, but you can display results for a precise period.

Gantt report

The Gantt report comprises two parts:

- A Gantt chart of plan tests scheduled between selected dates
- A Gantt chart of occupation of controllers on plan tests between selected dates

Expenses

This report shows all expenses linked to a plan, as well as breakdown by expense category and by controller.

It allows the director to plan future audits.

Closing a test plan

When all test activities have been completed, the internal control director can close the test plan.

The effect of this action is to close all tests in progress that have not been canceled.

Dashboard

Your dashboard allows you to access a set of widgets and follow the progress of your tests in real time.

To customize your dashboard:

- **1.** From the navigation menu, select **Dashboard**.
- 2. Click Add.

The list of elements you can display in your dashboard appears:

- general widgets
- IRM-related widgets
- 3. Select an element.

It appears in your dashboard.

REPORTS RELATED TO CONTROLS

This chapter describes reports present in the **Analysis** navigation tab. This tab groups the main reports used in each step of internal control. They can provide help in decision-making and allow you to follow up progress of your work.

➤ You find these reports in navigation tabs corresponding to the different internal control phases. You can also find certain reports in the properties dialog boxes of the objects they describe.

- √ "Control Library Reports", page 94
- √ "Control Execution Reports", page 97
- √ "Control Assessment Reports", page 100
- √ "Assessment Follow-Up Reports", page 102
- √ "Control Testing Reports", page 104
- √ "Issue Follow-up Reports", page 106

CONTROL LIBRARY REPORTS

Control Identification

This report presents distribution of controls according to several perspectives:

- entities
- processes
- control types
- accounts

Access path

Analysis > Control > Identification > Control Location Matrix

Parameters

Parameters	Remarks
Begin Date	Optional All controls created after this date are selected
End date	Mandatory Initialized with current date All controls created before this date are selected
Context objects	Optional The context object can be an: - Entity - Control type - Process - Account

Connecting context objects

You can specify context objects enabling display of controls linked to:

- Entities
- Processes
- Types of control
- Accounts

To connect context objects:

- In the appropriate frame, click **Connect**
 In the dialog box that appears, you can select objects in two ways:
 - via a tree: select the objects to be connected in the proposed tree and click OK.
 - via the query tool: select the required object type in the drop-down list, click the Find button, select the objects to be connected and click OK.

Results

To obtain the list of controls making up a bar chart bar:

Click the bar chart bar that interests you.

The list of controls taken into account is presented at the bottom of the edit area.

Bars of the bar chart distinguish assessed controls from those not yet assessed.

Control Location Matrix

The control location matrix displays links between:

- a controls list
- · context objects

Access path

Analysis > Control > Identification > Control Location Matrix

Parameters

Parameters	Parameter type	Comment
Begin Date	Date	Optional All controls created after this date are selected

Parameters	Parameter type	Comment
End date	Date	Optional All controls created before this date are selected
Context type	The context can be of type: - Account - Business process - Control type - Entity - Organizational process	Mandatory The object type determines contexts to be displayed in matrix columns
Localized controls	List of controls possibly filtered by: - Entity - Process - Risk type - Account	Mandatory Controls to be displayed in matrix rows

Control Map

The control map constitutes the control "identity card".

Generating the control map

To generate a control map:

In the **Control Library** navigation tab, click the icon of the control then the **Generate Report (MS Word)** button.

An MS Word format report opens.

An intermediate window may ask if you want to authorize pop-ups. If this is the case, reply "Yes".

Control map content

For the control concerned, the control map presents:

- control characteristics
 - general characteristics
 - responsibilities (in the RACI sense)
 - scope (context objects)
- data concerning control execution
 - execution method (frequency, associated steering calendar, execution procedure, associated controls)
 - executions carried out (with respondent and date)

CONTROL EXECUTION REPORTS

- √ "Detailed Execution Results", page 97
- √ "Consolidated Execution Results", page 97
- √ "Following Up Execution Sessions", page 98

Detailed Execution Results

This report presents results of each execution campaign session.

Access path

Analysis > Control > Execution > Detailed Execution Results

Parameters

Parameters	Remarks
Campaign	Mandatory
Session	Mandatory

Result

The report is presented as a table:

- in rows: tree of controls in their context
- in columns: results (control level)
 - This report is available only in the **Reports** navigation tab.

Consolidated Execution Results

This report presents aggregated results of controls by entity and by month.

Access path

Analysis > Control > Execution > Consolidated Execution Results

Parameters

Parameters
calendar
Begin Date
End date
Entity type
Entity

Result

The matrix comprises:

- a list of entities: by default, all entities are selected.
 - ► If the "Entity type" parameter is specified, selected entities correspond to this specified entity type.
- a Total number of controls: number of controls linked to the entity (or its sub-entities).
- a **Total number of instances**: controls are counted as many times as there are contexts for the same control.

If a control is assessed in the framework of two different entities, the control is counted twice: HOPEX Internal Control distinguishes two instances of the assessed control.

- For more details on control contextualization see "Contextualizing Controls", page 22.
- for each month:
 - a Number of assessed instances
 - a number of instances considered as satisfactory ("pass")
 - a % of instances considered as satisfactory ("pass")

Following Up Execution Sessions

This report enables follow-up of assessment sessions of "Execution" type.

Access path

Analysis > Control > Execution > Execution Session Follow-Up

Availability

This report is also available from a particular execution session.

To access this report from an execution session:

- 1. In the properties of an execution campaign, select the **Sessions** tab and open the properties page of an assessment session.
- 2. Select the **Reporting** tab, then **Follow-Up**.

Parameters



Result

A summary displays general information on the current session.

This report presents charts concerning campaign progress:

- Percentage of completed questionnaires
- Distribution of questionnaires by status
- Distribution of questionnaires delegated/not delegated
- Distribution of questionnaires by status, for each respondent
- Distribution of questionnaires by status, for each assessed object

CONTROL ASSESSMENT REPORTS

Campaign Result Tree

This report presents results of a given execution campaign session. It presents entities/processes/controls as trees and indicates for each assessed control whether it is satisfactory or not.

Access path

Assessment > Results > Control Assessment Campaigns > Campaign Results Tree.

Parameters

Parameters
Campaign
Assessment session

Campaign Result Matrix By Entity

This report presents as a matrix the results of each session of a given assessment campaign.

Access path

Assessment > Results > Control Assessment Campaigns > Campaign Result Matrix by Entity.

Parameters

Parameters
Campaign
Entity
Entity type

Aggregation Report

The aggregation report presents in tree form all objects from the selected root entity, together with their last assessment.

Access path

Assessment > Results > Aggregation

Parameters

Parameters	Remarks
Begin Date	
End date	By default current date
Context root	Tree root entity
Aggregation schema	An aggregation schema should be selected from the proposed list
Assessed characteristics	Assessed characteristics proposed depend on the selected aggregation schema.

An aggregation schema is a series of steps enabling consolidation of assessment results according to specified assessment rules.

ASSESSMENT FOLLOW-UP REPORTS

Session Follow-Up

This report enables assessment session follow-up.

It is identical to the "Execution Sessions Follow-Up" report, except that it is started from an assessment session (the campaign not having "Execution" type).

For more details, see "Following Up Execution Sessions", page 98.

Access path

Assessment > Results > Sessions > Session Follow-Up

Parameters

Parameters	Parameter value
Session	Assessment session

Session Statistics

This report displays the questionnaire data of a given assessment session and is used to analyze the distribution of answers.

Access path

Assessment > Results > Sessions > Session Statistics

Parameters

Parameters	Remarks
Campaign	Mandatory
Session	Mandatory

Result

A tree appears:

- in rows: questions/answers, together with respondents
- in columns: for each question/answer:
 - number of respondents
 - controls to which the answer relates

This tree specifies who has answered what to which question.

CONTROL TESTING REPORTS

Testing Coverage

The testing coverage report provides help in decision-making when selecting tests. It enables generation of tests.

See "Viewing the test coverage report", page 69.

Plan Synthesis

This report presents an overview of plan indicators.

Access path

Analysis > Testing > Plan Synthesis

Result

A summary table presents:

- number of tests (total number, number of tests planned, published and completed)
 - If you click the figure indicated, the corresponding tests appear at the bottom of the window. You can consult the properties of each test and modify these from this list.
- estimated and effective workload (in days)
- average duration (days)
- average number of controllers

Charts present the distribution of tests by:

- origin
- priority
- category
- score
- status

Other Reports

Reports allow you to follow up progress of a particular object (test plan, test, action plan). They are available on each object, in the **Testing** navigation tab.

Test plan follow-up reports

Reports enable test plan execution follow-up.

► See "Displaying test plan follow-up reports", page 89.

Test follow-up report

For more information on possibilities for test follow-up in particular, see:

- "Planning tests using a Gantt chart", page 70
- "Viewing resource availability", page 71
- "Consulting the work program report", page 77
- "Generating test reports", page 87
- "Test expenses reports", page 86
- "Supervising Tests", page 85
- "Test assessment reports", page 86

Action plan report

To follow up progress of an action plan in particular, see "Following up action plan progress", page 89.

ISSUE FOLLOW-UP REPORTS

The issue follow-up report is presented in the form of a pie chart.

Access path

Analysis > Controls > Remediation

Result

This report distinguishes issues:

- Remediated: issues with an action plan whose status is:
 - Completed
 - Closed
- Non-Remediated: issues with an action plan of which status is:
 - To send
 - To start
 - Under follow-up
- Without action plan
 - For more details on generation of this report, see "Generating issue follow-up reports", page 109.

•

Managing Issues and Action Plans

Issues are identified from control assessment questionnaires. Their analysis enables implementation of the appropriate corrective actions in the form of action plans. Action plan follow-up is simplified by production of reports.

- √ "Managing issues", page 108
- ✓ "Managing Action Plans for Internal Control", page 110

MANAGING ISSUES

Issues are created automatically at control assessment when controls are considered unsatisfactory. They can also be created manually.

Automatic Issue Creation

In the framework of a test activity, if an activity is the subject of a poor assessment, an issue is automatically proposed to the questionnaire respondent.

The issue is connected to:

- the questionnaire concerned
- the assessed control
- the measurement of the control concerned

To view the origin of the issue:

- 1. In the **HOPEX IRM** desktop, select **Test > Remediation > Issues**.
- Select the issue created automatically and expand the Assessment Scope section.

This section provides information on the origin of the issue:

- questionnaire
- source measure: the control and its context object (process or entity)
- control

Creating an Issue Manually

You can create issues manually at any time you consider this necessary.

To create an issue manually:

- 1. In the **HOPEX IRM** desktop, select **Test > Remediation > Issues**.
- 2. Click New.
- 3. Open the properties of the issue.
- **4.** In the **Category** field of the issue, specify if it is an issue detected:
 - at control assessment
 - · when performing tests
 - generic

Remediating Issues

To remediate the issue, you must create an action plan.

For more information on action plans, see "Managing Action Plans for Internal Control", page 110.

Following Up Issues

You can:

- view issues that have been remediated (of which the action plan is completed)
- generate an issue follow-up report

Viewing remediated / non-remediated issues

To view remediated / non-remediated issues:

- 1. Click Test > Remediation > Issues.
- 2. In the drop-down list, select:
 - "Closed Issues"
 - "Open Issues"

Generating issue follow-up reports

To generate an issue follow-up report:

- 1. Click Analysis > Controls > Remediation.
- 2. Click **New** to create a report.
- 3. In the **Parameters** page, define filter criteria if necessary and select:
 - an entity
 - a process
 - a Begin Date: to obtain issues created after this date
 - an End Date: to obtain issues created before this date
 - By default the end date is the current date.
- **4.** Select the **Reports** tab to view the result.

This report shows distribution between issues:

- remediated
- non-remediated
- that do not yet have an action plan

Managing Action Plans for Internal Control

You can set up action plans to improve a control that has been considered unsatisfactory ("fail").

Creating Action Plans

To create an action plan from an issue:

- In the HOPEX IRM desktop, from the navigation pane select Test then open the properties of a test.
- 2. From the drop-down list, select the **Work Program** page.
- 3. Select an issue and in its properties, expand the **Action Plans** section.
- 4. Click New.

The action plan is created, as well as its associated workflow.

- For more information on action plan workflows, see "Action Plan Workflows", page 113.
- The action plan also appears in the following menu: Test > Remediation > Remediating Action Plans > All Issue-Remediating Action Plans

You can specify action plan characteristics in its properties. See "Characterizing Action Plans", page 110.

Characterizing Action Plans

► See also "Creating Action Plans", page 110.

To specify action plan properties:

- In the HOPEX IRM desktop, select Test > Remediation >
 Remediating Action Plans > All Issue-Remediating Action Plans
- 2. Open the properties of the action plan.

General characteristics

You can specify the following information:

- Name: action plan name.
- **Owner**:by default the user who created the action plan.
- Owner Entity: entity responsible for action plan implementation.
- **Approver**: user responsible for validation of the action plan when all actions are completed.
- Means: text description of means required/desired for action plan execution.
- **Priority**: enables indication of a level. Priority can be:
 - "Low"
 - "Medium"
 - "High"
 - "Critical"
- Organizational Level: final objective of plan; this can be:
 - "Global"
 - "Local"
- **Origin**: enables definition of the context of carrying out the action plan:
 - "Audit"
 - "Compliance"
 - "Event"
 - "Risk"
 - "RFC"
 - "Other".
- Category: the action plan can for example be connected to:
 - risk impact reduction
 - project management
 - · process improvement
 - control performance improvement
 - etc.
- Other values are available.
- Nature: enables definition of whether the action plan is:
 - Corrective
 - Preventive
- Comment: supplements information on the action plan and its characteristics.
- Steering Calendar: used for sending reminders to the person responsible for an action plan so that they can indicate action plan progress.
 - A steering calendar for monthly reminder of progress is supplied by default.

Financial assertion

- Forecast Cost: action plan cost estimate.
- **Forecast Cost (Man-Days)**: estimate in man-days of action plan implementation workload.

RACI

The user defined as action plan **Responsible** is responsible for definition of actions to be carried out and their execution.

This field is specified with the name of the action plan creator or with the name of the action plan approver.

For more details on the use of RACI, see "Responsibilities concerning Controls", page 16.

Success factors

In the **Success Factors** section, you can specify in text the success indicators enabling assessment of success of the action plan.

Scope?

To position an action plan in its environment, you can associate objects with the action plan in the **Scope** section.

You can connect objects of the following types:

- controls
- applications
- risks
- entities
- processes
- incidents

Milestones

Milestones are key dates of the action plan.

★ The planned end date is mandatory.

Attachments

You can attach business documents to an action plan:

For more details on the use of business documents, see the **HOPEX Common Features** guide.

Managing Actions

The owner of the action plan must define actions enabling execution of the action plan. The owner can create actions and assign these.

An action is included in an action plan and represents a transformation or processing in an organization or system.

Creating Actions

To create an action from an action plan:

- 1. In the navigation menu, select My Tasks > Action Plans/ Recommendations > Action Plans to Implement.
- 2. Open the properties of the action plan that interests you.
- 3. In the **Actions** section, click **New**.
- **4.** In the action properties, complete fields:
 - Priority: enables indication of a level. Priority can be: "Low", "Medium", "High" or "Critical".
 - Owner: responsible for the action as specified by the action plan creator.
 - Owner Entity: entity responsible for action plan implementation.
- 5. You can specify milestones, which are important dates of the action.
 - Planned Begin Date
 - Planned End Date
- 6. Click OK.

The action is created with "Created" status.

Defining action scope

An action can concern one or several objects of control, risk or application type.

For example, to define the controls that will be executed in the framework of the action:

- 1. Open the properties of the action.
- 2. Expand the **Scope** section.
- 3. Connect the controls you want to install.

Action Plan Workflows

A workflow is automatically created at creation of the action plan.

Depending on the profile of the person who created the action plan, two workflows are available:

- a "top-down" approach
- a "bottom-up" approach
 - Commands enabling passage from one workflow status to another are available:
 - in the pop-up menu of the action plan from an action plans list
 - in the properties dialog box of an action plan, by clicking the action plan icon at top left

"Bottom-up" approach

In a "bottom-up" approach, the action plan can be created by any user. An approver must validate the action plan so that it can be implemented. This is the case when

control assessment questionnaire respondents propose an action plan: they must submit it via the workflow.

For the different workflow steps, see ""Bottom-up" Action Plan Workflow", page 87

"Top-down" approach

In the framework of a "top-down" approach, the action plan is created by a responsible. The action plan does not need to be validated in this case.

Internal controllers carrying out tests use this approach:

For the different workflow steps, see ""Top-down" Action Plan Workflow", page 88

Action workflow

When action plan actions have been defined, starting an action plan starts the linked actions.

When the action responsible has completed his/her actions, these can be closed. Closing the action plan automatically closes the linked actions.

► See "Action Workflow", page 89.

Indicating Action Plan Progress

When the action plan has been started, you can create progress states to indicate its progress.

To specify action plan progress:

- In the navigation menu, select My Tasks > Action Plans/ Recommendations > Action Plans to Implement.
- 2. Select an action plan and open its properties.
- Expand the Action Plan Progress section, and in the Progress Update frame, click New.
- 4. Specify a Progress Update Percentage.
- 5. If required, specify the **Progress Assessment**. You can specify whether the action plan is:
 - on time, or
 - delayed
- 6. Click OK.

The progress state is created. You can create these at regular intervals.

Action plan follow-up reports

To follow up action plans:

Select Analysis > Action Plans > Follow-Up.

Access path

Analysis > Action Plans > Action Plan Follow-Up

Result

This report comprises several charts:

- bar charts
- pie charts

The action plans are represented in their different contexts (processes and entities).

Action plans by status

This bar chart presents action plan statuses.

Action plans by progress

This pie chart presents action plan breakdown according to their status. Possible statuses are the following:

- On Time
 - in progress
 - · with due date exceeding 30 days
- Delayed:
 - in progress
 - with due date earlier than current date
- Approaching due date:
 - in progress
 - with due date between 0 and 30 days inclusive
- Canceled
- Closed

Action plan by priority

This pie chart presents action plan breakdown according to their priority.

Possible priorities are the following:

- Critical
- High
- Medium
- Low

Action plans by category

This pie chart presents action plan breakdown according to their category.

Possible categories are as follows:

- Corrective
- Preventive

Action plans by entity

This bar chart presents breakdown of action plans for each entity.

- x-axis: all entities
- y-axis: number of action plans linked to each entity and sub-entity
 - **☞** If no entity is selected, all root entities are taken by default.

Action plans by process

This bar chart presents breakdown of action plans for each process.

- x-axis: all processes (business and organizational)
- y-axis: number of action plans linked to each process and sub-process
 - **▶** If no process is selected, all root processes are taken by default.

HOPEX ENTERPRISE RISK MANAGEMENT User Guide

HOPEX V3



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Managing Risks

To control risks, it is necessary to identify and qualify the risks encountered in the execution of a process.

A risk is a hazard of greater or lesser probability to which an organization is exposed.

When risks have been analyzed and assessed, management determines how each of these risks should be treated. **HOPEX Enterprise Risk Management** offers tools that simplify creation and analysis of risks to identify the most important of these and set up adapted corrective or preventive actions.

The following points are covered here:

- √ "Risk Management Profiles", page 6
- √ "Creating a Risk", page 7
- √ "Accessing risks", page 9
- √ "Describing Risks", page 11
- √ "Risk Workflow", page 8

RISK MANAGEMENT PROFILES

Pour connect to HOPEX, see **HOPEX Common Features**, "HOPEX desktop", "Accessing HOPEX (Web Front-End)".

Profiles	Desktop	Tasks
Risk Manager (Or GRC manager)	HOPEX IRM	The Risk Manager is responsible for executing the following tasks on risks within his responsibility domain: - identifying risks - carrying out direct assessments - managing assessment campaigns - defining action plans - analyzing and following report creation
GRC Contributor (Lite)	IRM Contributors	Use the simplified HOPEX Explorer desktop answer assessment questionnaires - define action plans See "The GRC Contributor Desktop".

► For more details, see also "Accessing the IRM Manager Desktop".

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CREATING A RISK

To create a risk:

- In the navigation menu, select Libraries > Risk Library > All Risks. You obtain the list of all risks.
- 2. Click the **New** button.
- 3. Open its properties page.
- **4.** Specify the risk **Owner** responsible for entering information on the risk before submitting it for validation.

See also:

- "Risk Workflow", page 8
- "Describing Risks", page 11

RISK WORKFLOW

The risk creation process is managed by a workflow. Therefore only certain profiles are authorized to create, submit, validate or reject a risk.

For more details on the risk creation workflow, see "Risk Workflow", page 80.

The steps in the validation process of a new risk are the following:

- Having specified the characteristics of a new risk, the risk creator (who is also the risk owner) can :
 - Submit the risk.

The risk manager receives a notification by mail and the new risk appears with status "Submitted".

- When a risk has been submitted, the Risk Manager can:
 - Validate the risk, which takes status "Validated".

A notification is sent by mail to the user defined as "Owner".

• Reject the risk.

In this case, the risk takes status "Rejected", but is not deleted.

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ACCESSING RISKS

To access risks according to different criteria:

In the HOPEX IRM desktop, select Libraries > Risk Library > All Risks.

All Risks

Risks can be classified according to different criteria:

- · All Risks in My Environment
- · Risks to Review
 - This list displays the risks which were submitted and which need to be reviewed by the manager.
- Risks without Recent Assessment
 - This list displays risks which have never been assessed or which have not been assessed for the last 12 months.
- Risks with High Net Risk
 - The net risk indicates the risk to which the organization remains exposed after management has processed the risk.
- Key Risks in My Environment
 - Key risks are the risks for which the **Key Risk** check box was selected in the risk properties page.

Risks by Taxonomy

This list displays all Risks in your environment in a tree structured around Risk Types.

For each risk type, columns display:

- The number of sub-risk types
- The number of risks

Risks by Context

The risks of your environment are classified as a function of the context:

- Without context
- By process
- by entity
- By business line
- by application

Risks by Mitigation

Risks are grouped by mitigation method (controls or action plans):

- Risks with or without Action Plans
- Risk with Delayed Action Plans
 - The planned end date is the most distant planned end date of all delayed Action Plans for the displayed Risk.
- Risks mitigated by Controls
- · Risks Without Control.
 - This list displays risks which are not mitigated by controls.

Risks by Materialization

Risks are grouped by incident materializing risks or by open incident.

Risks with Open Incidents

Displays risks with at least one incident connected (which is not in Closed, Rejected, or Draft status).

Materialized Risks

A materialized risk is a risk which is connected to at least one incident.

The net risk displayed here is the sum of net losses of all incidents declared for the risk.

Unmaterialized Risks

This list displays risks which are not connected to any incident.

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DESCRIBING RISKS

To be able to assess risks in the framework of assessment campaigns by questionnaires, you must first specify certain properties. For more details, see "Preparing the Assessment Work Environment", page 42.

Risk characteristics

To access characteristics of a risk:

Select a risk form a list of risks or key risks and click the Properties button.

The properties page of the risk appears in the right pane.

On this page you can specify for the control:

- the risk identification Code
- the risk Name
- the fact that the risk is high level by selecting the Key Risk check box
- the risk Owner
- the risk Identification Mode

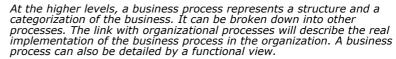
The risk could have been identified from:

- an "incident database"
- a "workshop"
- a "survey"
- an "audit"
- the risk **Description**
 - the **Risk Status** appears grayed and cannot be modified since it is managed by the workflow associated with the risk.

Risk scope

Risk scope enables definition of risk location. It relates to several component types:

- Entities concerned by the risk. For more details, see "Managing Entities", page 12.
 - An entity can be internal or external to the enterprise: an entity represents an organizational element of enterprise structure such as a management, department, or job function. It is defined at a level depending on the degree of detail to be provided on the organization (see org-unit type). Example: financial management, sales management, marketing department, account manager. An external entity represents an organization that exchanges flows with the enterprise, Example: customer, supplier, government office.
- Business Processes and Organizational Processes exposed to the risk. For more details, see "Managing Processes", page 13.
 - A business process represents a system that offers products or services to an internal or external client of the company or organization.



An organizational process describes how to implement all or part of the process required to make a product or handle a flow.

- Objectives and Requirements expected related to risk management. For more details, see "All Objectives", page 22 and "Consulting Requirements", page 23.
 - An objective is a goal that a company or organization wants to achieve, or is the target set by a process or an operation. An objective allows you to highlight the features in a process or operation that require improvement.
 - A requirement is a need or expectation explicitly expressed, imposed as a constraint to be met within the context of a project. This project can be a certification project or an organizational project or an information system project.
- **Applications**: for more details, see "Managing Applications", page 17.
 - An application is a set of software tools coherent from a software development viewpoint.
- Business Lines: for more details, see "Managing Business Lines", page 16.
 - A business line is a skill or grouping of skills of interest for the enterprise. It corresponds for example to major product segments, to distribution channels or to business activities.

Risk, factors and consequences

The aim of risk analysis is to obtain a good understanding of risks.

Analysis of the risk should take into account:

- risk causes
- positive or negative risk consequences

The risk analysis phase associates a risk with:

- risk types
- risk factors
- consequences
- other risks

To analyze a risk:

- 1. Select a risk and open its properties.
- 2. In the **Characteristics** tab, expand the **Analysis** section. A risk is characterized by:
 - Risk Types: for more details, see "Risk types", page 13.
 - A risk type defines a risk typology standardized within the context of an organization.
 - Risk Factors: for more details, see "Risk factors", page 13.
 - A risk factor is an element which contributes to the occurrence of a risk or which triggers a risk. Several Risks can originate from a same

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Risk Factor Examples: the use of a hazardous chemical product, the complexity of an application, the size of a project, the number of involved parties, the use of a new technology, the lack of quality assurance, the lack of rigor in requirements definition...

 Risk Consequences: for more details, see "Risk consequences", page 13.

A risk consequence can be positive or negative. It is associated with a type, which enables its characterization, for example: image, environment, employees.

- Related Risks
- Incidents

An incident is an event occurrence, internal or external, that has an impact on the organization. It is the basic element for collection of data concerning operational risk.

Risk types

A risk type defines a risk typology standardized within the context of an organization.

A risk type enables risk characterization. For example, a risk type can be regulatory, legal, technical, etc.

To create your own risk types:

- In the navigation menu, click My Environment > Risk Environment > All Risk Types.
- 2. In the pop-up menu of the "Risk Type" folder, select **New**.
- Enter the name of the risk type and click OK.The new risk type appears in the navigator menu tree.
 - ► Similarly, you can create a sub-risk type from a risk type.

Risk factors

Many risk factors are defined within the framework of international, national or inter-professional regulations, or within the enterprise itself.

A risk factor is an element which contributes to the occurrence of a risk or which triggers a risk. Several Risks can originate from a same Risk Factor Examples: the use of a hazardous chemical product, the complexity of an application, the size of a project, the number of involved parties, the use of a new technology, the lack of quality assurance, the lack of rigor in requirements definition...

With each risk, you can associate one or more risk factors, sources of risks that have intrinsic potential to endanger organization operation. For example, dangerous chemical products, competitors, governments, etc.

Risk consequences

To define consequences associated with a risk:

- In the risk page, **Analysis** section, **Risk Consequences** tab, click **New**. The consequence creation page appears.
 - Since a risk consequence can relate only to a single risk, the **Risk** field is already entered with the current risk.

The consequence created appears in the list of consequences associated with the risk

RACI on a risk

A risk properties page includes an **RACI** section to define the different persons responsible for risk management. For more details, see "", page 8.

Risk Dashboard

A number of indicators are available in the **Characteristics** page of risk properties.

- Assessment Freshness: elapsed time (number of months) since the last assessment (either direct assessment or through campaigns)
 - This is an indicator of how often a risk is assessed. This can be useful when it comes to decide when to perform the next assessment.
- Aggregated Net Risk: value of aggregated net risk computed from all assessments.
- Open incidents: number of incidents corresponding to risks having a status other than "closed".
 - See the "Collecting Incidents" section of the **HOPEX LDC** guide for more details on incidents.
- Next year Forecast: represents the net risk forecast for the year to come. It presents the average of net risk.

ASSESSING RISKS

After having identified and analyzed the risks encountered by the enterprise, it is essential to highlight the most important of these in order to remediate them.

In **HOPEX IRM**, risk assessment is qualitative: the impact of a risk is described by terms corresponding to a predefined scale (for example 1 to 4). In this way mapping of risks can be established to quickly identify the most critical risks.

- This chapter explains how to start assessments. To configure these, see the **HOPEX Power Studio** guide > Customizing Assessments > Assessment Templates".
- √ "Risk Assessment Types", page 16
- √ "Assessing risks directly", page 17
- √ "Viewing and Analyzing Risk Assessment Results"

RISK ASSESSMENT TYPES

A risk measurement is designed to give values, in a specific context, for the different characteristics such as risk likelihood or impact.

Characteristics values can be specified:

- from the risk properties: for more details see "Creating a Direct Assessment on a Risk", page 18
- From a multiple assessment table: see "Assessing Multiple Risks Simultaneously", page 20.
- Through an assessment questionnaire sent to appropriate recipients: see "Risk and Control Campaign Assessment", page 42.

Results of risk assessment can be displayed in dedicated reports whick make it easier to analyse the assessed risks. For more details, see "Report Related to Risks", page 33.

ASSESSING RISKS DIRECTLY

Direct assessment provides, at a given date, assessment of a risk on an entity of the organization.

Direct Assessment Context

In direct assessment, the values of the characteristics can be specified in two ways:

- in the properties of each risk
- globally, using a multiple assessment table

Direct assessment is carried out for all context objects available in the **Scope** section of the risk properties window:

- Organizational processes
- Business processes
- Entities
- etc.

Direct Risk Assessment Templates

The **HOPEX IRM** solutions provide risk assessment templates in the context of the following objects:

- an org-unit
- a business process
- · an organizational process
- an application
- · a business line

Assessed characteristics

An assessed characteristic defines what the assessment seeks to assess. It can be associated with a MetaClass, and more specifically with one of its MetaAttributes, for example: Risk MetaClass, MetaAttribute: Criticality.

Example of assessed characteristics:

- Impact
- Likelihood
- Control Level

Control level characterizes efficiency level of control elements deployed (controls) to assess the risk.

Net risk

The net risk indicates the risk to which the organization remains exposed after management has processed the risk.

Assessed objects

The objects assessed are risks.

The list of risks to be assessed comprises all risks connected to the entity (assessment object) and to its sub-entities

Respondents

Respondents are persons defined as *Risk Assessor* for the entity.

Questionnaire

An assessment questionnaire is a list of questions relating to a particular object and addressed to users.

The questionnaire relates to characteristics to be assessed for all risks determined as objects of assessment:

- Impact
- Likelihood
- Control Level

Control level characterizes efficiency level of control elements deployed (controls) to assess the risk.

Creating a Direct Assessment on a Risk

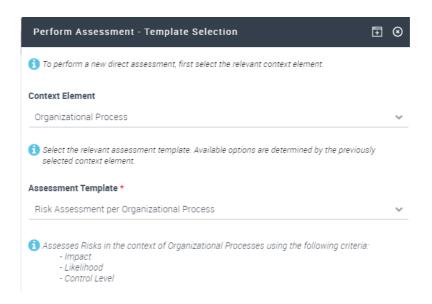
You can create new assessments to assess a risk on all objects of the organization to which it is connected.

This is an "expert view" assessment.

To create a direct assessment on a risk:

- 1. Select the risk and open its properties.
- 2. Select the Assessment tab.

- 3. Click the **Perform Assessment** button.
 - The **Perform Assessment** button is available if the risk has been contextualized accordingly.

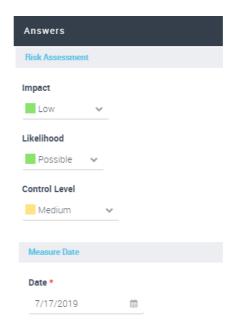


- In the Context Element field, select the object type which makes up the risk assessment context.
 - Contexts are available only if there is more than one.

The **Assessment Template** corresponding to the selected context is indicated.

- 5. Click Next.
- **6.** Specify characteristics values:
 - Impact: the impact of the risk when it occurs.
 - Likelihood: the probability that the risk will occur.
 - Control Level
 - Control level characterizes efficiency level of control elements deployed (controls) to assess the risk.

7. Specify the assessment **Date**.



8. Click **OK**. An assessment is created.

Assessing Multiple Risks Simultaneously

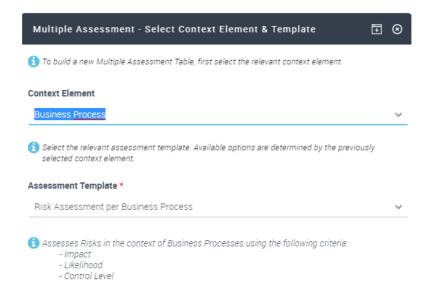
Through the multiple assessment table you can specify the same value for several assessment nodes of different risks.

To assess several risks simultaneously:

- From the navigation menu click Assessment > Direct Assessment > Risk Multiple Assessment Table.
- In the window that appears, click the Build Multiple Assessment Table button.

- 3. In the **Context Element** field, select the object type which makes up the risk assessment context.
 - org-unit
 - application
 - business line
 - business processes
 - organizational processes

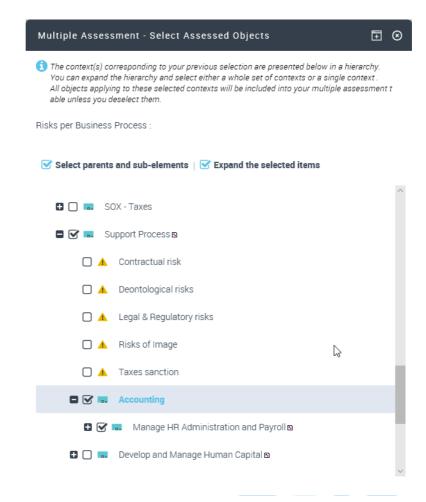
The **Assessment Template** corresponding to the selected type context is indicated.



4. Click Next.

5. In the displayed tree, select the objects that define the assessment context.

A risk is assessed in the context of elements of the branch from the risk up to the root.



In the above example, if you selected the "Accounting" process, all risks and context objects located at a lower level are selected, as well as all parent context objects up to the tree root.

► If you deselect a node of a branch, only the child elements of this branch are deselected.

6. Click OK.

► If assessments have already been carried out, the most recent assessment values are presented in columns.

- **7.** Select the appropriate values in the the columns corresponding to the assessed characteristics.
 - Impact: characterizes impact of the risk when it occurs.
 - Likelihood: characterizes probability that the risk will occur.
 - **Control Level**: this characteristic gives an overall assessment of risk control level.



- 8. When finished, select the assessment nodes you assessed and click **Validate Multiple Assessment Table**.
- **9.** In the window that opens click **Yes** to confirm.

Validation automatically creates an assessment in the **Assessment** page of the control properties. For more details, see "Displaying Risk Assessment Results".

VIEWING AND ANALYZING RISK ASSESSMENT RESULTS

Displaying Risk Assessment Results

To display the results of assessments performed on a risk:

- 1. From the risk library, select the **Assessment** page of the risk properties.
- 2. (optional) In the **Assessment Results** section, select the context element and template you are interested in and click **Apply filters**. The corresponding assessments appear. This way you can filter assessments when there are a lot of them.

For each assessment node the following values are calculated:

inherent risk

The inhere	nt (gross) risk indicates the risk to which the	
organization is	exposed in the absence of measures taken to modify mpact of this risk.	the

net risk

The net risk indicates the risk to which the organization remains exposed after management has processed the risk.

Generating Reports on Assessments

Instant reports

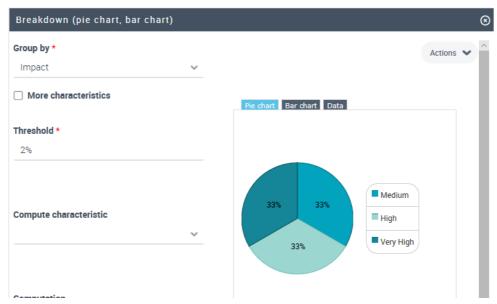
Instant reports offer a statistical graphic analysis of the data. You can generate instant reports on a selection of assessments in order to view certain data graphically or to compare the assessments for specific characteristics.

To launch an instant report on a set of assessment of a risk:

- 1. Display the properties of the risk and click the **Assessment** page.
- 2. Select the assessments in question.
- 3. Click the **Instant Report** button.
- **4.** Select the type of report to create and then, if necessary, the characteristics to be analyzed.

Example

Find below an example of breakdown report on risks. From the selected characteristics (risk impact in this example), this report offers a graphical representation of results.



For more details on instant reports, see the HOPEX Common Features user guide, "Generating Documentation", "Managing Instant Reports".

Generating dedicated reports

In addition to instant reports, **HOPEX IRM** provides dedicated report templates that facilitate the analysis of the assessed risks. For more details, see "Report Related to Risks", page 33.

TREATING RISKS

It is particularly important to identify risk causes so that the risks themselves will be remediated and not just their symptoms. Risk assessment offers elements to select the most appropriate and cost-competitive remediation strategies.

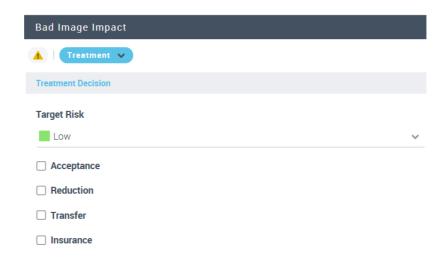
HOPEX Enterprise Risk Management is used to specify, implement and follow up action plans defined for treating risks.

In addition, control activities comprise policies and procedures that enable assurance that risk remediation required by management has been effectively implemented.

RISK TREATMENT MODE

To specify risk treatment choices:

In the properties page of a risk, select the **Treatment** tab.



Risk Treatment Decision

Various solutions that enable facing the risk are proposed.

Acceptance

This is the strategy of risk management that consists of accepting the risk having considered its consequences. As long as no desire to treat the risk is expressed, this strategy will not protect the organization against the risk.

• Reduction

Risk frequency can be reduced by installing additional controls, or the impact of its consequences can be reduced if the risk occurs.

• *Transfer* (sub-contractor)

The risk can also be shared with other partners, in particular when they have greater skills in controlling the risk. For example, you can subcontract a dangerous activity to a partner specialized in the particular field. In such cases, it should be noted that it is often necessary to carry out a new risk study, since the introduction of a new partner can bring additional risks.

• Assurance

Complementing all previous approaches, it is often necessary to seek assurance, in particular for risks of low frequency but with high impact. In this case, the assurer generally requests that risk prevention and reduction measures are also installed.

Analyze the different possible scenarios, weighing up their positive and negative aspects, so as to select a scenario compatible with the desired risk control level.

Depending on the solution adopted, we consider the effect of different solutions in terms of frequency and impact as well as costs and benefits.

Risk levels

The choice of treatment should be the solution that brings risk within the tolerable limit required by management.

In the **Target Risk** field, you can indicate the level of risk accepted by the organization.

ACTIONS TO TREAT RISKS

Management draws up a set of actions matching risk levels with risk tolerance level and risk appetite for the organization.

For each risk, the selected scenario is described in detail, with the various risk factors and the controls implemented to counter them highlighted. Also specified are controls installed to warn of risks, as well as the corrective procedures to be implemented if the risks occur.

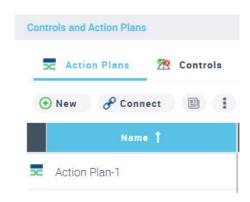
In the case of transfer to partners or assurance, we can specify contracts to be agreed with them, as well as the predicted impact on organization processes.

Implementation of prevention controls to reduce risk frequency and impact can be a solution for risk reduction.

Specifying treatment actions

To indicate the controls and action plans enabling risk prevention:

- In the **Treatment** page of the risk properties, expand the **Controls and Action Plans** section.
 - The Action Plans tab contains the list of action plans installed: for example for creation or improvement of a control, management of a crisis linked to occurrence of an incident, or revision of a process with a view to its improvement.
 - An action plan comprises a series of actions, its objective being to reduce risks and events that have a negative impact on company activities.
 - The Controls tab lists controls planned for risk reduction.
 - A control is a set of rules and means enabling the assurance that a legal, regulatory, internal or strategic requirement is respected.



Setting up action plans

An action plan can be set up for creation and improvement of a control, management of a crisis related to occurrence of an event, or modification of a process with a view to its improvement.

The action plan can be created:

- in isolated then attached to different objects (risks, processes, controls, entities..)
- directly from one of these objects.

A workflow is automatically created at creation of the action plan.

For more information on action plan workflows, see "Action Plan Workflows", page 576.

Control policy monitoring

Risk identification and analysis highlighted a certain number of risks against which it is important to be protected. It is necessary to define the control activities that will prevent these risks and reduce their potential consequences.

These controls must be formally defined in order to meet regulatory requirements such as the Sarbanes-Oxley Act or Basel II agreements in the banking world.

In **HOPEX Enterprise Risk Management**, there are different object types linked to controls:

- Object types enabling the indication of the framework within which the control is implemented:
 - control system
 - control type
 - requirement
 - associated risk
- Object types enabling the indication of control implementation means:
 - organizational processes
 - applications
- Object types enabling the indication of control implementation responsibilities.

For more details on controls, see "Managing Controls", page 13.

REPORT RELATED TO RISKS

The different report templates proposed as standard by **HOPEX Enterprise Risk Management** enable analysis of controls and risks.

- √ "Risk Environment Report", page 34
- ✓ "Incident Identification Reports", page 37
- √ "Aggregation Reports", page 42
- √ "Risk Follow-Up Reports", page 50
- ✓ "Risk Management Effectiveness Reports", page 52

RISK ENVIRONMENT REPORT

This report is available for all ERM profiles.

You can choose to display the following elements for a given risk:

- the risk context
 - business processes
 - organizational processes
 - applications
 - Org-Units
 - business lines
- the strategic objects impacted by the risk:
 - objectives
 - requirements
- the consequences of the risk
 - target risks
- the preventive controls designed to mitigate the risk
 - A control is a set of rules and means enabling the assurance that a legal, regulatory, internal or strategic requirement is respected.
- incidents
 - An incident is an event occurrence, internal or external, that has an impact on the organization. It is the basic element for collection of data concerning operational risk.

Access path

Risk properties (Reports page)

Report parameters

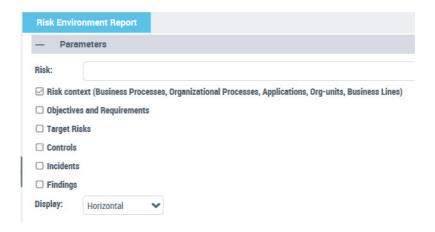
Parameters	Parameter type	Constraints
Risk	1 risk	Mandatory
Risk Context	Check Box	Optional
Objectives and Requirements	Check Box	Optional
Target Risks	Check Box	Optional
Controls	Check Box	Optional
Incidents	Check Box	Optional
Findings	Check Box	Optional

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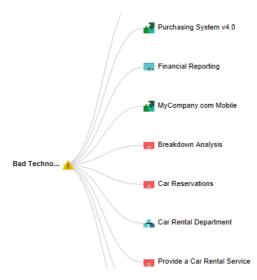
Creating a Risk Environment Report

To display a risk environment report:

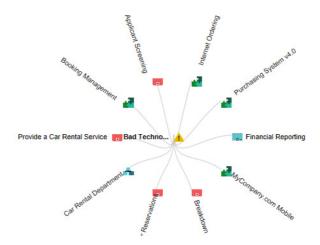
- 1. In risk properties, select the **Reporting > Risk Environment** page.
- 2. In the Parameters section, select:
 - a Risk
 - the types of environment objects that you wish to display.



- **3.** In the **Display** field, specify whether you want to display the risk environment objects:
 - in a horizontal fashion, or,



• in a circular fashion (based on the selected risk)



4. Click Refresh.

Using this diagram, you can:

- fold/unfold the branches
- open the properties page of the selected object.

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INCIDENT IDENTIFICATION REPORTS

Location Matrix

This matrix enables viewing of links between a list of risks and objects to which they are attached. These objects can be:

- Risk type
- entity
- process
- objective

Access path

Analysis > Risks > Identification > Distribution Matrix.

Report parameters

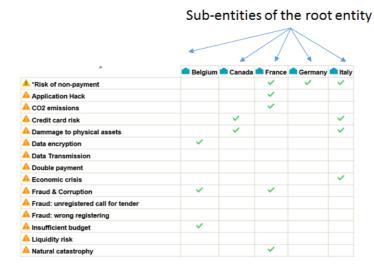
This consists of defining report input data.

Parameters	Parameter type	Constraints
Begin Date	Date	Risk selection criterion. Not mandatory.
End date	Date	Risk selection criterion, fixed at current date.
Inherited context	Risk type, entity, process or objective	Root (parent) of objects presented in columns. <i>Mandatory</i> .
Risks to be distributed	List of risks (obtained from a selection related to risk type, entity, process or objective).	Risk selection criterion. <i>Mandatory</i> .

Report example

The example below shows links between:

- a list of risks
- the list of sub-entities of the root entity specified in the *Inherited Context*.



Risk identification

This report presents distribution of risks according to several criteria: by process, by risk type, by entity and by objective.

Access path

Analysis > Risks > Identification > Risk Identification

Report parameters

This consists of selecting risks that will be presented by specifying elements that define their scope: risk types, entities, processes or objectives.

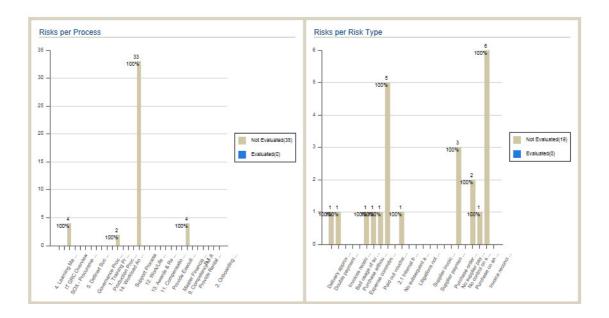
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Parameters	Parameter type	Constraints
Begin Date	Date	Risk selection criterion. Not mandatory.
End date	Date	Risk selection criterion, fixed at current date.
Scope risk type	Risk type	Risk selection criterion. Not mandatory.
Scope entities	entity	Risk selection criterion. Not mandatory.
Scope processes	process	Risk selection criterion. Not mandatory.
Scope objectives	objectives	Risk selection criterion. Not mandatory.

Report example

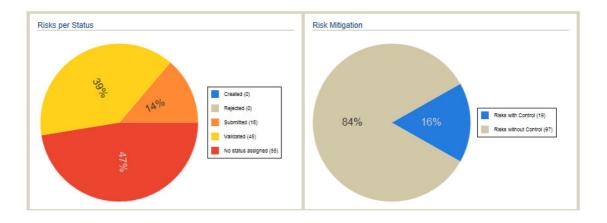
The upper part of the report presents distribution of risks on the following criteria:

- Distribution of risks by process
- Distribution of risks by risk type
- Distribution of risks by entity
- Distribution of risks by objective



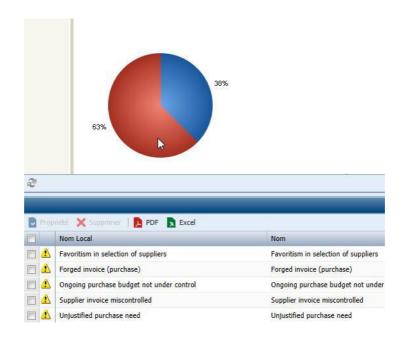
The lower part of the report presents distribution of risks on the following criteria:

- Distribution of risks by status
- Distribution of risks on which remediation has been defined
- Distribution of risks assessed or not assessed
- Number of risks created over last ten years.



To obtain a list of risks making up a sector or a barchart bar:

I Click the sector (or barchart bar) that interests you.



The list of risks taken into account is presented at the bottom of the edit area.

For more details on operation of instant reports, see the **HOPEX Common Features** guide.

AGGREGATION REPORTS

Net Risk by Risk Type

This report presents in the form of a stacked bar chart:

- on the horizontal axis: the number of risks by risk type
 - A risk type defines a risk typology standardized within the context of an organization.
- on the vertical axis: the number of risks by net risk level
 - The net risk indicates the risk to which the organization remains exposed after management has processed the risk.

Access path

Analysis > Risks > Aggregation > Net Risk by Risk Type

Risk Heatmap (Aggregated)

The Risk Manager as well as well as all contributors can display the impact and the likelihood of a set of risks.

Aggregation consists of calculating an aggregated value of the values specified on each risk based on assessments.

Access path

Analysis > Risks > Aggregation > Risk Heatmap (aggregated)

Report parameters

To specify the report parameters:

After creating the report, in the Parameters tab, specify the List of Risks that will populate the report.

Content of the heatmap

To display the report content:

• After specifying the report parameters, select the **Reports** tab.

This heatmap displays the aggregated values of risks without risk duplication (as context is not taken into account).



HeatMap by Entity/Risk Type/Process

This report displays distribution of risks according to different criteria:

- Risk impact related to occurrence likelihood
 - **Impact**: characterizes impact of the risk when it occurs.
 - Likelihood: characterizes probability that the risk will occur.
- Absolute risk related to control level
 - **Inherent Risk**: product of impact value and likelihood value. This characteristic gives an assessment of risk consequences.
 - Control Level: this characteristic gives an overall assessment of risk control level.

Access path

Analysis > Risks > Aggregation > Heatmap by Entity/Risk Type/Process

Report parameters

This consists of defining report input data.

Parameters	Parameter type	Constraints
Begin Date	Date	Risk selection criterion. Not mandatory.
End date	Date	Risk selection criterion, fixed at current date.
List of risk types	Risk type	Risk selection criterion. Not mandatory.
List of org-units	entity	Risk selection criterion. Not mandatory.
List of processes	process	Risk selection criterion. Not mandatory.
List of objectives	objectives	Risk selection criterion. Not mandatory.
List of control systems	Control systems	Risk selection criterion. Not mandatory.

[►] If you complete a risk type and and entity, you get the risks connected to this risk type OR this entity (The OR operator is used here, not AND).

Report example

In the example below, no risk has been assessed.



ightharpoonup Only the latest risk assessment values are taken into account for each Risk x Entity context.

Assessments per Context

This report enables to display risk assessment results by:

- business processes
- objective
- org-unit
- Risk type

Access path

Analysis > Risks > Aggregation > Assessments per Context

Report parameters

Parameters	Parameter type
Begin Date	Date
End date	Date
Context type	Business processes Objective Org Unit Risk Type

Overall Risk Level by Process

This report displays a table of risks linked to the objectives of business processes specified as a parameter.

It displays values of net risk for each risk in each business process.

Access path

Analysis > Risks > Aggregation > Overall Risk Level Per Process

Report parameters

Parameters	Parameter type	Constraints
Begin Date	Date	Risk selection criterion. Not mandatory.
End date	Date	Risk selection criterion, fixed at current date.
List of business processes	Business processes	Risk selection criterion. Not mandatory.

Report example



Overall Risk Level by Entity

This report displays a table of risks linked to the objectives of entities specified as a parameter.

It displays values of net risk for each risk in each entity.

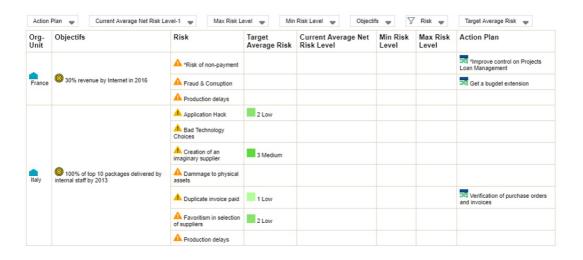
Access path

Analysis > Risks > Aggregation > Overall Risk Level Per Entity

Report parameters

Parameters	Parameter type	Constraints
Begin Date	Date	Risk selection criterion. Not mandatory.
End date	Date	Risk selection criterion, fixed at current date.
Number of Enti- ties	Entities	Risk selection criterion. Not mandatory.

Report example



Aggregation Report

This report enables to sum up risk levels for an object tree (hierarchy of entities and risk types for example) as well as risk levels for each risk connected to a tree leave.

Click **Generate Aggregation** to generate aggregation data.

Access path

Analysis > Risks > Aggregation > Aggregation Report

Report parameters

This consists of defining report input data.

Parameters	Parameter type	Constraints
Begin Date	Date	Risk selection criterion. Not mandatory.
End date	Date	Risk selection criterion, fixed at current date.
Context root	The root object can be type Entity, Process or Risk Type.	Root of objects presented in rows in the report. <i>Mandatory</i> .
Aggregation schema	Aggregation schema to be applied	Mandatory.
Assessed characteristics	Assessment characteristics	List of metrics presented in columns in the report. Proposed by default depending on the selected aggregation schema. <i>Mandatory</i> .

Report example

The example below shows aggregated values of risks on entities.

□ 1. Aggregation Results



Expanding an entity displays the aggregation of values on each of the risks connected to the entity.



RISK FOLLOW-UP REPORTS

Session Statistics

This report displays the questionnaire data of a given assessment session and is used to analyze the distribution of answers.

Access path

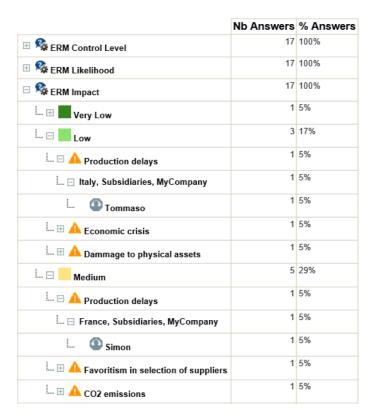
Analysis > Risks > Follow-Up

Parameters

Parameters	Remarks
Campaign	Mandatory
Session	Mandatory

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Report example



Result

A tree appears:

- in rows: questions/answers, together with respondents
- in columns: for each question/answer, the number of respondents This tree specifies who has answered what to which question.

By expanding a reply, we obtain the name of the assessor and the risks to which the reply relates.

RISK MANAGEMENT EFFECTIVENESS REPORTS

Risk Context Synthesis

The Risk Manager uses this report to display:

- the risks impacting the entity for which he/she is responsible as well as its sub-entities
- The environment objects for each risk (business process and/or business line, for example)
- the mitigation status of risks managed
 - the mitigation controls
 - · the incidents that determine these risks
 - the action plans concerning the risks

If, for example, the risk is gives birth to incidents, the Risk Manager can display which action plans to modify.

Access path

Analysis > Risks > Effectiveness > Risk Context Synthesis

Parameters

Parameters	Constraints
Elements at risk	Mandatory

Report content

The reports display the following in columns:

- the elements at risk (for example sites or organizational processes)
- The associated risks
- The date of the last risk assessment
- Any incidents
- The date the incident took place
- Related controls
- The action plans to implement
- End date of action plan

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Risk Reduction

This report presents evolution of the net risk between two dates in order to analyze benefits of action plans carried out.

Access path

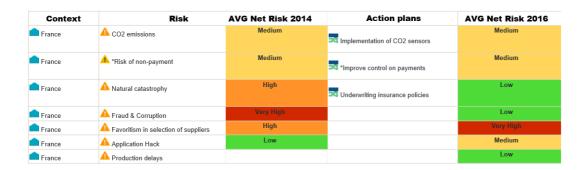
Analysis > Risks > Effectiveness > Risk Reduction

Report parameters

This consists of selecting risks that will be presented in defining elements that characterize their context. The risks presented concern only those entities and processes specified in the parameters.

Parameters	Parameter type	Constraints
Begin Date	Date	Begin date <i>Mandatory</i> .
End date	Date	End date Mandatory .
Entities	entity	Studied risks selection criterion. Not mandatory.
Processes	process	Studied risks selection criterion. Not mandatory.

Report example



Coverage & Risks Matrix

As a Risk Manager, you must ensure the risks in your scope have associated mitigating controls. This will allow you to prioritize your control design efforts.

Access path

Analysis > Risks > Effectiveness > Risk and Control Coverage Matrix

Matrix content

This matrix displays:

- all the risks in the scope of the Risk Manager
- the controls whose purpose is to mitigate these risks
 - The intersection between the rows and columns indicates that the control mitigates the risk.



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The color indicate how appropriate the control level is as far as risk mitigation is concerned.

Trend Analysis

This report presents projection of the net risk over the last three years and in the coming year. It presents the average of net risk.

Access path

Analysis > Risks > Effectiveness > Trend Analysis

Report parameters

This consists in defining the context of risks presented.

Parameters	Parameter type	Constraints	
Report context	risk type, entity, process, objective	Risk selection criteria presented in rows. Not mandatory.	

Report example

A	2014	2015	2016	Average	Action plans	Forecast	Expected
				Evolution		2017	Evolution
▲ Unwarranted supplier account	Medium	Very High		7	Yes	Very High	7
▲ Data Transmission	Very High	Medium		7	No	Very Low	7
▲ Double payment	Low	Medium		7	No	High	7
A Favoritism in selection of suppliers	High	High	Very High	71	No	Very High	7
△ CO2 emissions	Medium	High	Medium	→	Yes	Medium	И
Application Hack	Low	Very High	Medium	7	No	High	И
▲ Natural catastrophy	High	Medium	Low	И	Yes	Very Low	И
A Fraud & Corruption	Very High	Medium	Low	И	No	Very Low	7
A Production delays	High	Medium	Low	И	No	Very Low	7
▲ *Risk of non-payment	Medium	High	Medium	→	Yes	Medium	N
▲ Financial Health	Medium	High		71	No	Very High	7
▲ Data encryption	Medium	High		7	No	Very High	7
▲ Unauthorized spending	High	Medium		71	No	Very Low	7
⚠ Insufficient budget	High	Medium		71	No	Very Low	И
▲ Dammage to physical assets	High	High		→	No	High	→

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HOPEX LDC User Guide

HOPEX V3



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COLLECTING INCIDENTS

The incident is the basic element for data collection concerning operational risk.

An incident is an event occurrence, internal or external, that has an impact on the organization. It is the basic element for collection of data concerning operational risk.

HOPEX IRM enables you to organize follow-up of incidents and losses, to identify their causes and measure their impacts.

The system manages the complete life cycle of incidents, and you have tracking information available with a detailed history of recordings.

The GRC Manager/Incident and Loss Administrator may want to analyze incidents before validating data. He/she can view results in the form of dynamic reports. He/she may also decide to group incidents to create a macro-incident.

- ✓ Connection Profiles to HOPEX LDC
- ✓ Managing Incidents with HOPEX IRM
- ✓ Specifying Incident characteristics
- ✓ Accessing the Incident Library
- ✓ Analyzing Incidents
- ✓ Importing and Exporting Incidents
- ✓ Incident Management Process

To treat incidents, see the general documentation related to action plans: Using Action Plans.

CONNECTION PROFILES TO HOPEX LDC

Pour connect to HOPEX, see **HOPEX Common Features**, "HOPEX desktop", "Accessing HOPEX (Web Front-End)".

To manage incidents in **HOPEX IRM**, you must login with one of the following profiles:

Profiles	Desktop	Tasks
Incident and Loss Administrator (Or GRC manager)	HOPEX IRM	Has rights on all objects and workflows. Prepares the work environment and create elements required for management of incidents and losses. Manages: - users and assignment of roles description of the environment: org-units and organizational processes, regulatory environment, IT resources. Can intervene in: - declared incidents - action plans and actions
GRC Contributor (Lite)	IRM Contributors	Use the simplified HOPEX Explorer desktop Declare incidents See The GRC Contributor Desktop.

For more details, see also Accessing the IRM Manager Desktop.

Managing Incidents with HOPEX IRM

Accessing incidents

To access incidents:

-) (HOPEX IRM desktop), Select Libraries > Incident Library > All Incidents.
 - ► See also Accessing the Incident Library.
-) (GRC Contributor profile) Click **Home > My Incidents**.

Creating incidents

To create an incident:

- In the HOPEX IRM desktop, select Libraries > Incident Library > All Incidents.
- 2. Click New.
 - ₩ With the "GRC Contributor" profile, click **New Incident"** from the Home Page.
- **3**. In the incident property page, enter for example its **Name**.
- **4.** Specify the **Declarant Entity**, which is a required field.

An entity can be internal or external to the enterprise: an entity represents an organizational element of enterprise structure such as a management, department, or job function. It is defined at a level depending on the degree of detail to be provided on the organization (see org-unit type). Example: financial management, such external entity represents an organization that exchanges flows with the enterprise, Example: customer, supplier, government office.

See also Specifying Incident characteristics.

SPECIFYING INCIDENT CHARACTERISTICS

To modify incident characteristics:

- See Accessing incidents.
 The list of incidents you have declared appears in the edit area.
- 2. In the incident properties, select the **Characteristics** page.
- 3. The following information can be specified:
 - **Description** is a comment describing the incident.
 - Declaration Date, Detection Date and current Occurrence Date, which constitute incident key dates.
 - To specify a date, use the calendar at the right of the field.
 - Incident declaration and detection dates can differ, the declaration date being later than the detection date.
 - Macro-incident: to connect the current incident to an existing or new Macro-Incident.
 - A macro-incident is an event that impacts more than one business or company of the same group.
 - For more details, see Managing macro-Incidents.
 - Near-miss: check box to be selected if it is a near-miss incident.
 - A near-miss is an incident that did not result in injury, illness, or damage but had the potential to do so.
 - Nature: you may enter the financial nature of the incident.
 - **Status**: Indicates current status of the incident in the incident management process.
 - The **Status** appears grayed since it is managed by the workflow associated with the incident. For more details, see <u>Incident Management Process</u>.

RECORDING INCIDENT-LINKED AMOUNTS

When the incident has been declared, we can record amounts linked to the incident and its consequences, for example *losses*.

A loss is the negative financial result of an event.

A gain is the positive financial consequence of an incident.

A provision is an amount deducted from the result to cover risks or unexpected charges. Several provisions can concern a single risk.

A recovery is a sum, which in certain circumstances can reduce the amount of losses linked to operational risk. It enables recovery of a proportion of the amounts involved in the incident.

Accessing Incident Financial Analysis

To access financial analysis data of an incident:

- 1. See Accessing incidents.

 The list of incidents you have declared appears in the edit area.
- 2. Select the incident you wish to modify.
- 3. In the incident properties, select the **Financial Analysis** tab. Total amounts appear in the **Total Amounts** section.
 - For more details on incident total amounts, see Viewing Incident-Linked Amounts.

Entering a Loss

To enter a loss:

- A loss is the negative financial result of an event.
- 1. See Accessing incidents.
- 2. In the incident properties, select the Financial System page.
 - For more details, see Accessing Incident Financial Analysis.
- 3. Expand the Losses, Gains, Recoveries and Provisions section.
- Select the Losses tab and click the New button. The new loss appears in the list.
- Select the new loss and click **Properties**.
 The properties dialog box of the new loss opens.

- **6.** In the **Characteristics** tab, complete the following fields:
 - Name
 - **Description**: comment concerning the loss.
 - Effective Date
 - Nature: "Loss of or damage to assets", "Write downs", "Loss of recourse", "Legal liability", etc.
 - Account in which the incident is counted.
 - For more details on the account concept, see Control Environment.
- Click the button at the left of the **Amount** field to select currency of the loss.
 - Amounts entered in a currency are converted to the local currency and to the central currency.
 - ► If no exchange rate has been previously defined by the administrator, the amount is automatically taken into account in the central currency.
 - ► If you are not sure of the amount, you can select the **Amount is Estimated** check box. The amount entered will not be included in **Gross actual losses** related to the incident.
 - Losses relating to a near-miss are generally estimated. It is however possible to enter actual losses.
- **8.** Expand the **Scope** section and, if required, enter information specific to the loss, for example:
 - Entity against which this loss must be accounted.
 By default, this is the same entity as that declared for the incident.
 - Business Line concerned by the loss.
 - For more details on elements defining scope of an incident or loss, see Defining scope of a loss.
- 9. Click OK.

Defining scope of a loss

Scope of a loss enables definition of location of the loss, the associated incident and therefore a risk within the organization.

Organization description is detailed in chapter Managing your IRM Environment.

The scope is specified on several component types:

entities concerned by the loss

An entity can be internal or external to the enterprise: an entity represents an organizational element of enterprise structure such as a management, department, or job function. It is defined at a level depending on the degree of detail to be provided on the organization (see org-unit type). Example: financial management, sales management, marketing department, account manager. An external

entity represents an organization that exchanges flows with the enterprise, Example: customer, supplier, government office.

- business lines concerned by the loss
 - A business line is a skill or grouping of skills of interest for the enterprise. It corresponds for example to major product segments, to distribution channels or to business activities.
- risk typesto be associated with the loss
 - A risk type defines a risk typology standardized within the context of an organization.
- business processes andorganizational processes concerned by the loss
 - A business process represents a system that offers products or services to an internal or external client of the company or organization. At the higher levels, a business process represents a structure and a categorization of the business. It can be broken down into other processes. The link with organizational processes will describe the real implementation of the business process in the organization. A business process can also be detailed by a functional view.
 - An organizational process describes how to implement all or part of the process required to make a product or handle a flow.
- products impacted by the loss
 - A product represents commodities offered for sale, either goods or merchandise produced as the result of manufacturing, or a service, ie. work done by one person or group that benefits another.
- applications impacted by the loss
 - An application is a set of software tools coherent from a software development viewpoint.
- requirements expected related to loss management
 - A requirement is a need or expectation explicitly expressed, imposed as a constraint to be met within the context of a project. This project can be a certification project or an organizational project or an information system project.

Entering Gains

A gain is the positive financial consequence of an incident.

To enter a gain:

- 1. See Accessing incidents.
- 2. In the incident properties, select the **Financial System** page.
- 3. Expand the Losses, Gains, Recoveries and Provisions section.
- **4.** Select the **Gains** tab and click the **New** button. The new gain appears in the list.
- **5.** Select the new gain and click **Properties**. The properties dialog box opens.
- **6.** In the **Characteristics** tab, complete the following fields:
 - Name
 - **Description**: comment concerning the loss.
 - Effective Date
 - Account in which the incident is counted.
 - For more details on the account concept, see All Accounts.

- Expand the Amount section and, if required, enter information concerning the loss amount.
 - Amounts entered in a currency are converted to the local currency and to the central currency.
 - ► If no exchange rate has been previously defined by the administrator, the amount is automatically taken into account in the central currency.
 - If you are not sure of the amount, you can select the **Amount is Estimated** check box. The amount entered will not be included in totals related to the incident.
 - Losses relating to a near-miss are generally estimated. It is however possible to enter actual gains.
- **8.** Expand the **Scope** section and, if required, enter information specific to the gain.
 - For more details on elements defining scope of an incident, see Defining scope of a loss.
- 9. Click OK.

Recording Recoveries

A recovery is a sum, which in certain circumstances can reduce the amount of losses linked to operational risk. It enables recovery of a proportion of the amounts involved in the incident.

It is useful to differentiate between *recoveries* from insurance and those from other areas such as litigation, third-parties, etc.

To enter a recovery:

- 1. See Accessing incidents.
- 2. In the incident properties, select the **Financial System** page.
- 3. Expand the **Losses, Gains, Recoveries and Provisions** section.
- Select the **Recoveries** tab and click the **New** button. The new recovery appears in the list.
- 5. To specify information specific to a recovery, proceed in the same way as for a gain.
 - For more details, see Entering Gains.

Recording Provisions

A provision is an amount deducted from the result to cover risks or unexpected charges. Several provisions can concern a single risk.

To enter a *provision*:

- 1. See Accessing incidents.
- 2. In the incident properties, select the **Financial System** page.
- 3. Expand the **Losses, Gains, Recoveries and Provisions** section.
- **4.** Select the **Provision** tab and click the **New** button. The new provision appears in the list.

- 5. To specify information specific to a provision, proceed in the same way as for a gain.
 - For more details, see Entering Gains.

Viewing Incident-Linked Amounts

To view Incident-related Amounts:

- 1. See Accessing incidents.
- In the incident properties, select the **Financial System** page.

The **Total Amounts** section automatically calculates the sum of all incident-related financial elements (losses, gains, recoveries and provisions).

If an element is **Estimated**, it is not included in the losses total.

Amounts appear in the central currency and in the local currency.



The following fields give valuated indications on incidents:

Gross Loss

Sum of losses related to the incident (including estimated losses).- Gains

Gross actual loss

Gross Actual Loss = Sum of losses related to the incident without estimated losses .- Gains.

Recoveries

Sum of insurance and non-insurance recoveries

Net Loss

Net Loss = Gross Loss - Recoveries

Net Actual Loss

Net Actual Loss = Gross Actual Loss - Recoveries

ACCESSING THE INCIDENT LIBRARY

You can manage incidents directly from the Incident Library.

To access them:

) (HOPEX IRM desktop), Select Libraries > Incident Library.

Tiles and lists within each tile enable you to access incidents according to differnet criteria.

Viewing all incidents

Libraries > Incident Library > All Incidents

This tile enables you to view all incidents:

- Macro Incidents
 - A macro-incident is an event that impacts more than one business or company of the same group.
- Incidents to Review
 - This list displays incidents which have been declared et which must be validated. For more details, see Validating incidents.
- Open Incidents
 - This list displays the incidents you can close. For more details, see Closing incidents.
- High Impact Incidents
 - ► This list displays all Incidents with High Impact.

Viewing incidents by materialized risk

Libraries > Incident Library > By Risk

This list displays incidents which correspond to risks.

- Incidents with materialized Risks
- Incidents without materialized Risks

Viewing incidents by risk type

Libraries > Incident Library > By Risk Taxonomy

This list displays all incidents in your environment in a tree structured around Risk Types.

Viewing incidents by affected element

Libraries > Incident Library > By Affected Elements

Various lists enable you to view objects on which incidents had a high impact.

- Incidents by business line
- Incidents by application
- Incidents by entity
- Incidents by process
- Incidents without affected elements

Viewing incidents with a possible impact

Libraries > Incident Library > By Impact

This tile displays incidents in your environment:

- which may impact compliance of your organization with regulatory requirements,
- which materialize key risks.

Drop-down lists enables you to access incidents according to:

- regulatory impact
- risk causality
 - ► Incidents against risks which may cause other risks are shown here.

ANALYZING INCIDENTS

When basic characteristics of the incident have been specified, you can enter advanced characteristics in the context of incident analysis.

This work consists of linking the incident to the environment defined by your organization.

For more details on environment components, see Managing your IRM Environment.

Incident Qualitative Analysis

To access incident qualitative analysis:

- 1. See Accessing incidents.
- **2.** Open the properties of the incident.
- 3. In the Characteristics tab, expand the Qualitative Analysis section.

Risks and controls

Associating an incident to a risk and to a control is an essential step in managing incidents.

- A risk is a hazard of greater or lesser probability to which an organization is exposed.
- A control is a set of rules and means enabling the assurance that a legal, regulatory, internal or strategic requirement is respected.

To do this:

- 1. In the incident properties, select the **Characteristics** page.
- 2. Expand the Qualitative Analysis section.
- 3. Click the arrow at the right of the **Risk** field and select **Link Risk**. The list of risks defined in your repository appears.
- Select the risk that interests you and click OK.
 The incident is now attached to the risk.
- 5. Specify the **Impact** characterizing impact of the incident on environment elements.
 - "Very High"
 - "High"
 - "Medium"
 - "Low"
 - "Very Low"
- **6.** Specify the **Priority** characterizing the incident relative importance.
 - "High"
 - "Medium"
 - "I ow"
- Click the arrow at the right of the Control field and select Link Controls.

The list of controls defined in your repository appears.

Select the control that interests you and click OK.
 The incident is now attached to the control.

Risk factors

Many *risk factors* are defined within the framework of international, national or inter-professional regulations, or within the enterprise itself.

A risk factor is an element which contributes to the occurrence of a risk or which triggers a risk. Several Risks can originate from a same Risk Factor Examples: the use of a hazardous chemical product, the complexity of an application, the size of a project, the number of involved parties, the use of a new technology, the lack of quality assurance, the lack of rigor in requirements definition...

With each risk, you can associate one or more *risk factors*, sources of risks that have intrinsic potential to endanger organization operation. For example, dangerous chemical products, competitors, governments, etc.

To define risk factors associated with an incident:

- 1. In the incident properties, select the **Characteristics** page.
- 2. Expand the Qualitative Analysis section.
- 3. Select the **Risk Factor** tab and click the **Connect** button. The list of risk factors defined in your repository opens.
- 4. Select the risk factor associated with the incident.
- 5. Click OK.

The risk factor appears in the list.

Risk consequences

A risk consequence can be positive or negative. It is associated with a type, which enables its characterization, for example: image, environment, employees.

To define risk consequences associated with an incident:

- 1. In the incident properties, select the **Characteristics** page.
- 2. Expand the **Qualitative Analysis** section.
- 3. Select the **Risk Consequence** tab and click the **Connect** button. The list of risk consequences defined in your repository opens.
- 4. Select the risk consequences associated with the incident.
- 5. Click OK.

The risk consequence appears in the list.

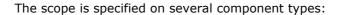
Incident scope

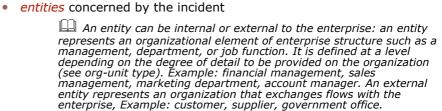
To specify the scope of an incident:

- 1. See Accessing incidents.
- 2. In the incident properties, select the **Characteristics** page.
- 3. Expand the **Scope** section.

Incident scope enables definition of risk location within the organization.

Organization description is detailed in paragraph The Organization.



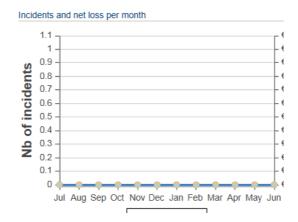


- business lines concerned by the incident
 - A business line is a skill or grouping of skills of interest for the enterprise. It corresponds for example to major product segments, to distribution channels or to business activities.
- risk typesto be associated with the incident
 - A risk type defines a risk typology standardized within the context of an organization.
- business processes andorganizational processes concerned by the incident
 - A business process represents a system that offers products or services to an internal or external client of the company or organization. At the higher levels, a business process represents a structure and a categorization of the business. It can be broken down into other processes. The link with organizational processes will describe the real implementation of the business process in the organization. A business process can also be detailed by a functional view.
 - An organizational process describes how to implement all or part of the process required to make a product or handle a flow.
- *products* impacted by the incident
 - A product represents commodities offered for sale, either goods or merchandise produced as the result of manufacturing, or a service, ie. work done by one person or group that benefits another.
- applications impacted by the incident
 - An application is a set of software tools coherent from a software development viewpoint.
- requirements expected related to incident management
 - A requirement is a need or expectation explicitly expressed, imposed as a constraint to be met within the context of a project. This project can be a certification project or an organizational project or an information system project.

Impact analysis of incidents

HOPEX IRM offers the possibility to analyse, from several perspectives, the distribution of incidents linked to the environment.

For more information, see Loss Analysis Reports.



Managing macro-Incidents

An incident concerns only one business line and one organizational unit, which is why **HOPEX IRM** enables creation of macro-incidents.

The *macro-incident* enables representation of a group of incidents that have generated losses on different business lines and/or different companies of the group.

A macro-incident is an event that impacts more than one business or company of the same group.

For example, a wilful incident in a building can have repercussions on several business lines or organizational units of the group.

Connecting incidents to macro-incidents

You can connect incidents to macro-incidents in two ways:

- from the properties of a macro-incident, in the **Incidents** tab, by connecting existing incidents
- from an incident (operation described below)

To connect an incident to the macro-incident:

- 1. See Accessing incidents.
- 2. Select the incident you want to modify and click **Properties**.
- 3. Select the Characteristics tab.
- Click the arrow at the right of the Macro-Incident field and select Link Macro Incidents.

The list of macro-incidents appears.

- Select the macro-incident that interests you and click OK. The incident is now attached to the macro-incident.
 - **☞** Incidents are visible in the **Incidents** tab of the macro-incident.

Creating a macro-incident

This feature is proposed only to Risk Managers and Incidents and Losses Administrators.

To create a macro incident:

- 1. Select Libraries > Incident Library > All Incidents.
- From the drop-down list, select Macro-Incidents.
 The list of macro-incidents you have declared appears in the edit area.
- 3. Click New.

The new macro-incident appears in the list.

- **4**. In the macro-incident properties, select the **Characteristics** page.
- **5.** Specify the following fields:
 - Name
 - Description: comment concerning the macro-incident.
- **6.** Expand the **Scope** section and, if required, enter information specific to the macro-incident.
 - For more details on elements defining scope, see Defining scope of a loss.

Analyzing macro-incidents

Incidents connected to the macro-incident

To access the list of incidents connected to a macro-incident:

- In macro-incident properties, select the **Incidents** page.
 - ► In the Incidents page of the macro-incident, the fields Number of Validated Incidents, Date of First Occurrence and Date of Last Occurrence are completed automatically.

Macro-incident amounts

The **Total Amounts** section of the macro-incident properties presents the sum of all financial elements specified for incidents connected to the macro-incident.

The following fields are calculated automatically:

Gross Loss

Sum of losses related to the incident (including estimated losses).- Gains

Gross actual loss

Gross Actual Loss = Sum of losses related to the incident without estimated losses .- Gains.

Recoveries

Sum of insurance and non-insurance recoveries

Net Loss

Net Loss = Gross Loss - Recoveries

Net Actual Loss

Net Actual Loss = Gross Actual Loss - Recoveries

Losses evolution report

This report presents evolution of net losses per month of incidents connected to the macro-incident.

To access the Reports tab:

In macro-incident properties, select the **Loss Evolution** page.

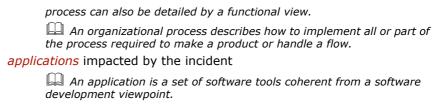
IMPORTING AND EXPORTING INCIDENTS

HOPEX IRMUse Excel data exchange wizards to import and export incidents.

For more details, see chapter "Excel Import/Export Wizards" in the **HOPEX Common Features** quide.

The list of information exported in the standard model delivered with **HOPEX IRM** is as follows:

- Incident Name
- Description is a comment describing the incident
- **Declarant**: name of the incident creator
- Declarant entity:
- Declaration date
- Detection date
- Occurrence date
- Near-miss
 - A near-miss is an incident that did not result in injury, illness, or damage but had the potential to do so.
- Nature: you may enter the financial nature of the incident.
- Impact of the incident on environment elements
- **Priority** characterizing described incident relative importance
- Currency
- Gross loss is obtained by a macro
- Recoveries is obtained by a macro
- Provision: the amount is obtained by a macro.
- entity concerned by the incident
 - An entity can be internal or external to the enterprise: an entity represents an organizational element of enterprise structure such as a management, department, or job function. It is defined at a level depending on the degree of detail to be provided on the organization (see org-unit type). Example: financial management, such as a management, marketing department, account manager. An external entity represents an organization that exchanges flows with the enterprise, Example: customer, supplier, government office.
- business lines concerned by the incident
 - A business line is a skill or grouping of skills of interest for the enterprise. It corresponds for example to major product segments, to distribution channels or to business activities.
- risk types to be associated with the incident
 - A risk type defines a risk typology standardized within the context of an organization.
- business processes and organizational processes concerned by the incident
 - A business process represents a system that offers products or services to an internal or external client of the company or organization. At the higher levels, a business process represents a structure and a categorization of the business. It can be broken down into other processes. The link with organizational processes will describe the real implementation of the business process in the organization. A business



requirements expected related to incident management

A requirement is a need or expectation explicitly expressed, imposed as a constraint to be met within the context of a project. This project can be a certification project or an organizational project or an information system project.

Exporting Incidents

To use Excel export from a list of incidents: from the main menu, select Parameters > Options. Expand the folder Data Exchange > Import/Export Synchronization > Tools/Third Party Formats. Select the Excel export: Availability in listviews check box.

To access the Excel Export Wizard and its parameters:

- 1. From the Main menu, select **Export > Excel**.
- Select the "From a template" Export File Mode and click Next.
- 3. In the **Predefined Template File** select "Incident Template".
- 4. In the **Excel Export File** field, select the type of file you want to generate (xls or xlsx) and name this file.
- 5. Click Next to end-up export.

To launch the Excel Export wizard from an object list:

- 1. Access the incidents through the incident library.
- 2. Select the incidents you want to export.
- 3. Click **Excel** to start export.

 An .xls file opens. You can save it if you wish.

Importing Incidents

To import incidents from an Excel file in **HOPEX IRM**:

- From the Main menu, select Import > Excel.
 The import wizard appears in the edit window.
- 2. At the right of the **Excel Import File** field, click the **Browse** button.
- **3.** Indicate the file to be imported.
- 4. Click Import.

The wizard displays the worksheets and columns detected in the file. If the file parameters have not been recognized by the wizard, you can enter them in this dialog box.

5. Click Next.

The wizard provides a report of import results.

6. To obtain a detailed report of import errors, click the **Open Report** button.

The .xls (or .xlsx) file opens indicating in color red the problem data.

- The first two lines of an Excel worksheet are reserved for file configuration. Ensure that the first two lines of the imported file remain identical to those obtained after an export.
- 7. So that imported data will be visible in **HOPEX**, click **Finish**.
- **8.** To modify import parameters, click **Previous**.
- 9. To discard import, click Cancel.

INCIDENT MANAGEMENT PROCESS

Incident Management Process General Description

Incident management process steps are as follows:

- Having specified characteristics of a new incident, the incident declarant should:
 - Submit the incident.

The incident approver receives a notification by mail and the new incident appears with status "Submitted".

 When an incident has been submitted by its declarant, the incident approver can **Request modifications** of the incident which takes status "Project".

A notification is sent by mail to the incident declarant.

- The Risk Manager can:
 - Validate the incident, which takes status "Validated".
 - Reject the incident.
- When a validated incident is considered as terminated, the Risk Manager can:
 - Close the incident, which takes status "Closed".

Incident Management Process Steps

Submitting incidents

When you have specified information concerning the incident, you can submit it to the Incident Approver.

To submit an incident:

- 1. See Accessing incidents.
- Right-click the incident you want to submit and select Incident Declaration To Be Submitted.
 - If the incident declarant has role "Incident Declarant", the incident takes status "To Be Approved" and appears in the list of incidents to be approved by the Incident Approver.
 - If the incident declarant has role "Incident Approver", the incident takes status "To Be Validated" and appears in the list of incidents to be validated by the Risk Manager.

Validating incidents

When incidents have been specified with their losses, recoveries and provisions, you can then make use of your data.

Only Risk Managers are authorized to validate incidents.

To validate an incident:

- 1. Select Libraries > Incident Library > All Incidents.
- 2. In the drop-down list select Incidents to Review.
 - ➤ You can also access the incidents to Review from My tasks > Review > Incidents to review.

The list if incidents for which you are responsible appears in the edit area.

- **3.** Right-click the incident that interests you and select one of the following commands:
 - Validate the incident, which takes status "Validated".
 - **Reject** the incident.

Closing incidents

When the incident has been validated, the Risk Manager can decide that this incident will not be modified further, and therefore close it .

■ Only Risk Managers are authorized to validate incidents.

To do this:

- 1. Select Libraries > Incident Library > All Incidents.
- 2. In the drop-down list select **Open incidents**.
- 3. Right-click the incident you want to close and select Close.

REPORTS RELATED TO INCIDENTS

The different report templates proposed as standard by **HOPEX LDC** enable analysis and follow-up of incidents and their financial consequences. Reports are presented in the local currency of the user if the exchange rate between reference currency and local currency is specified. If the exchange rate is not specified, reports are presented in the reference currency.

For more details on the use of reports, see the **HOPEX Common** Features guide.

- ✓ Loss Analysis Reports.
- ✓ Back Testing Reports.
- ✓ Capital Calculation Reports.

LOSS ANALYSIS REPORTS

Incident and Loss Distribution

This report displays distribution of incidents and losses selected according to different perspectives: by entity, by business line, by risk type or by process.

For more details on the procedure that enables connection of the incident or loss to an entity or process, see Defining scope of a loss.

Access path

Analysis > Incidents > Losses > Incident & Loss Breakdown

Report parameters

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Warning thresh- old	Real	Minimum amount of displayed losses.
Begin Date	Date	One year before current date by default.
End date	Date	Current date by default.
Risk Type	Risk Type	Selection of incidents connected to risk types of list or to their sub-risk types. Not mandatory.
Organizational Process	Organizational Process	Selection of incidents connected to processes of list or to their sub-processes. Not mandatory.
Business processes	Business processes	Selection of incidents connected to processes of list or to their sub-processes. Not mandatory.
Entities	Entity	Selection of incidents connected to entities of list or to their sub-entities. Not mandatory.
Business lines	Business lines	Selection of incidents connected to business lines of list or to their subbusiness lines. Not mandatory.

Incident and Loss Evolution by Month

This report displays monthly distribution of incidents and monthly distribution of losses on two different diagrams.

For more details on how to connect an incident to a loss, see Entering a Loss.

Access path

Analysis > Incidents > Losses > Incident & Loss Evolution per Month

Report parameters

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Warning thresh- old	Real	Minimum amount of displayed losses.
Begin Date	Date	One year before current date by default.
End date	Date	Current date by default.
Risk Type	Risk Type	Selection of incidents connected to risk types of list or to their sub-risk types. Not mandatory.
Organizational Process	Organizational Process	Selection of incidents connected to processes of list or to their sub-processes. Not mandatory.
Business processes	Business processes	Selection of incidents connected to processes of list or to their sub-processes. Not mandatory.
Entities	Entity	Selection of incidents connected to entities of list or to their sub-entities. Not mandatory.
Business lines	Business lines	Selection of incidents connected to business lines of list or to their subbusiness lines. Not mandatory.

Incident and Loss Evolution by Risk Type

This report displays monthly evolution curves of incidents and losses in the same diagram.

For more details on how to connect an incident to a loss, see Entering a Loss.

Access path

Analysis > Incidents > Losses > Incident & Loss Evolution per Risk Type

Report parameters

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Warning thresh- old	Real	Minimum amount of displayed losses.
Begin Date	Date	One year before current date by default.
End date	Date	Current date by default.
Risk Type	Risk Type	Selection of incidents connected to risk types of list or to their sub-risk types. Not mandatory.
Organizational Process	Organizational Process	Selection of incidents connected to processes of list or to their sub-processes. Not mandatory.
Business processes	Business processes	Selection of incidents connected to processes of list or to their sub-processes. Not mandatory.
Entities	Entity	Selection of incidents connected to entities of list or to their sub-entities. Not mandatory.
Business lines	Business lines	Selection of incidents connected to business lines of list or to their subbusiness lines. Not mandatory.

BACK TESTING REPORTS

These reports indicate financial losses of risks studied from their attached incidents.

For more details on the procedure that enables connection of an incident or loss to a risk type, see Defining scope of a loss.

Risks displayed in reports are the risks defined in parameters and their sub-risks.

Back Testing Matrix

Access path

Analysis > Incidents > Back Testing > Back Testing Matrix

Report parameters

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Warning thresh- old	Real	Minimum amount of displayed losses.
Begin Date	Date	One year before current date by default.
End date	Date	Current date by default.
Risk Type	Risk Type	Selection of incidents connected to risk types of list or to their sub-risk types. Not mandatory.
Organizational Process	Organizational Process	Selection of incidents connected to processes of list or to their sub-processes. Not mandatory.
Business processes	Business processes	Selection of incidents connected to processes of list or to their sub-processes. Not mandatory.
Entities	Entity	Selection of incidents connected to entities of list or to their sub-entities. Not mandatory.
Business lines	Business lines	Selection of incidents connected to business lines of list or to their subbusiness lines. Not mandatory.

Back Testing By Risk Type

Access path

Analysis > Incidents > Back Testing By Risk Type

Report parameters

This consists of selecting risk types that will be presented in the report.

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Warning thresh- old	Real	Minimum amount of displayed losses.
Begin Date	Date	One year before current date by default.
End date	Date	Current date by default.
Risk Type	Risk Type	Selection of incidents connected to risk types of list or to their sub-risk types. Not mandatory.

Back Testing by Business Line

This consists of selecting business lines that will be presented in the report.

Access path

Analysis > Incidents > Back Testing By Business Line

Report parameters

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Warning thresh- old	Real	Minimum amount of displayed losses.
Begin Date	Date	One year before current date by default.
End date	Date	Current date by default.
Business lines	Business lines	Selection of incidents connected to business lines of list or to their subbusiness lines. Not mandatory.

CAPITAL CALCULATION REPORTS

These reports are used to evaluate amount of capital to be provided to cover operational risks.

Loss Distribution Matrix

This report indicates distribution of losses as a function of business lines (presented in columns) and risk types (presented in rows).

For each pair (business line, risk type), this report presents:

- The total amount of losses,
- The minimum amount of losses,
- The maximum amount of losses,
- The number of incidents.

Access path

Analysis > Incidents > Capital Calculation > Loss Distribution Matrix

Report parameters

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Net loss thresh- old	Real	Minimum amount of displayed losses.
Analysis year	Short	Year preceding current year by default.
Risk Type	Risk Type	Selection of incidents connected to risk types of list or to their sub-risk types. Not mandatory.
Business lines	Business lines	Selection of incidents connected to business lines of list or to their subbusiness lines. Not mandatory.

BIA Approach

This report gives an estimate of capital amount to be allocated for a business line. For each year of the period defined by parameters, the report presents:

- The total of gross revenues, by year
 - **▼** To create revenues, see Defining gross incomes in HOPEX LDC.
- The average gross revenue over the number of years specified as parameter
- The BIA defined as parameter
- The capital amount to be allocated for the business line (percentage of BIA applied to average gross revenue).

Access path

Analysis > Incidents > Capital Calculation > BIA Approach.

Report parameters

This consists of selecting incidents and losses that will be presented in specifying elements that define their scope. In this report, the scope is defined by a single business line.

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Gross revenue threshold	Real	Minimum amount of displayed losses.
Begin Date	Date	One year before current date by default.
End date	Date	Current date by default.
Average period	Short	Number of years to which average calculation relates.
Percentage of BIA	Real	Percentage value to be applied.
Business line	Business line	Mandatory.

TSA Approach

This report, derived from Basel II, gives an estimate of capital amount to be allocated by business line.

For each business line, the report presents:

- The total of gross revenues, by year
- The average gross revenue over the number of years specified as parameter
- The TSA rate adopted for the business line
- The capital amount to be allocated for the business line (percentage of TSA applied to average gross revenue).

Access path

Analysis > Incidents > Capital Calculation > BSA Approach.

Report parameters

Parameters	Parameter type	Constraints
Currency	Currency	Currency of reports. Local currency is used by default.
Gross revenue threshold	Real	Minimum amount of displayed losses.
Begin Date	Date	One year before current date by default.
End date	Date	Current date by default.
Average period	Short	Number of years to which average calculation relates.
Business lines	Business lines	Selection of incidents connected to business lines of list or to their subbusiness lines. Not mandatory.