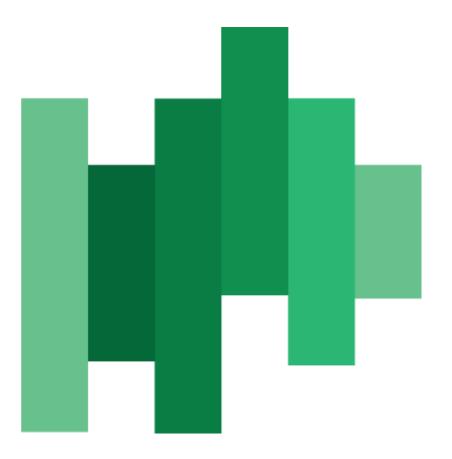


GWE



Part III: Governance workflow elaboration

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2 Preface

The primary target for this documentation are superusers of QualiWare, consultants and technical consultants.

GovernanceWorkFlowEngine (GWE) is used for controlling the flow of diagrams/objects in the QualiWare both in backend (QLM) and frontend (QEP).

The document is divided into three parts (different documents):

Part I: Setup and use of the governance workflow in QLM and QEP Part II: Walkthrough of the different templates related to the GWE Part III: Elaboration of the different governance workflows

Part III goes through different workflows where availability is depended on license(s). Below is a distribution of licenses and their respective workflows.

Collaboration license:

- Change Management
- ChangeRequest
- Document (QDM)
- Problem

CAI

- Audit
- Corrective action
- Non conformance

Compliance license (to obtain this a CAI license is required):

- Complaint
- Contract
- Incident
- Accident
- Asset
- Compliance

For more on how the licenses are structure and what you get besides workflows please contact our sales department (<u>Salg@Qualiware.dk/Sales@Qualiware.com</u>).

Information about how to create a good governance model based on best practices and research, please contact our Center of Excellence (<u>DKCenterofExcellence@QualiWare.com</u>).



3 History

Document Revision	Date	Author	Changes
0.1	25-07-16	Loa Lind	First draft



4 Change Management Module

QualiWare's Change Management module consist of the Change Management and Change Request workflow.

Change Management workflow is used for controlling the lifecycle of an object going from development to approval (as shown above).

When using private workspaces, approved objects can either be automatically or manually promoted to the base configuration.

Per default it is enabled for the templates BusinessProcessDiagram, BusinessProcessNetwork and WorkFlowDiagram, but can be extended to be executed for any Template.

The Change Management workflow is also intended to be very flexible therefore you will see transitions (arrows) from most states (the boxes).

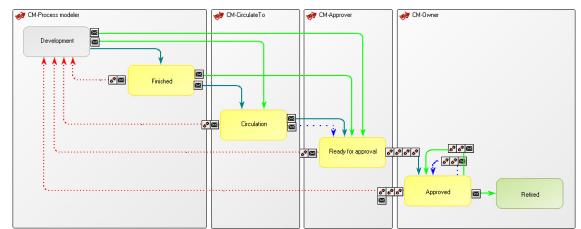
The "ChangeManagement.exp" is located in Models/Collaboration/Export Files and the export file consist of:

- GovernanceWorkFlow
 - Change Management

There is no need for further setup of the Change Management that importing the GovernanceWorkFlow, because it is part of the standard QualiWare Enterprise Publisher.exp.

4.1 Change Management

4.1.1 The governance workflow



State	Description
Development	The object is in development
Finished	The object is finished
Circulation	The object is circulated to all on CirculateTo list
Ready for approval	The object is ready for approval



Approved	The object is approved and frozen.
	From Approved the object can be promoted (this is only usable with the use of a private workspace). It will also publish the new diagram with promote.
Retired	The object is retired

4.1.1.1 Configure the workflow to work with private workspace

If you want to perform the governance in a development environment (a private workspace) then you have to change the Configuration Execution for the transition from Approved to Development to the Named Private workspace where you want to execute the Create New Revision action.

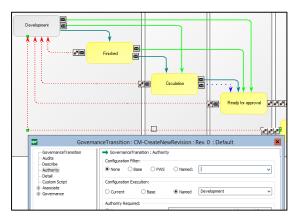


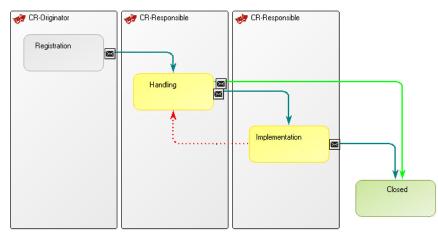
Figure 1: Change CM-CreateNewRevision action to be executed in Named configuration Development (private workspace)

5 Change Request

The Change Request workflow is used for managing changes associated with processes among other. It can be used to demonstrate your organization is continually improving the processes and documents. It provides you with an easy consistent way of involving all users in the improvement work.



5.1 The governance workflow



State	Description
Registration	The change request is registered.
Handling	The change request is sent to responsible.
	Formatil: Image: State of the s
Implementation	The change request is implemented, and an email is sent to responsible (can be the same responsible as in handling).
	Email: To Transformer Change Request: Change Request: To Transformer Change Request: Dear John Smith You are responsible for implementing the Change Request: Change the following Description: This is a description of the change Best regards, QualiWare Lifecycle Manager
Closed	The change request is closed.



5.2 Web

The change request is portrayed in the form of two tabs one with the property sheet for the change request with all its data, and the other shows the governance history.

User: QualiWare Administrator Role: Default	CR-0015: Change XYZ		🖉 Edit 🛛 🚱 Governance Action 💌
▼ Information	Change Request Governance History		
Created by: QualiWare Administrator			
Creation date: 2015-10-30 11.10:07 Modified By: Qual/Ware Administrator	Status:	Registration	
Last Modified: 2015-10-30 11.10:40	Sequence ID:	CR-0015	
	Last Modified:	2015-10-30 11.10:40	
	Short Description:		
	Concerns:		
	Originated By:	2 QuallWare Administrator	
	Originated Date:	2015-10-30 11.10:07	
	Responsible:	QualiWare Administrator	
	Recommended Action:		
	Estimated Resource Requirement:		
	Recommended By:		
	Recommended Date:		
	Corrective Action:		
	Executed By:		
	Start Date:		
	End Date:		
	Resources Spent:		

Figure 2: HTMLTemplateDefinition

The HTMLQueryResultView consist of a custom create button, which only means that the Create dialog will open immediately with the associated HTMLDialogLayout.

Ch	Change Requests							
e c	Coste GEdit							
	Name 🔺	Sequence ID	Concerns	Responsible	Short Description		Originated Date	Status





5.3 Dialogs

Name:	New object		
Priority:			
* Responsible:			
* Responsible: Description:			
Description.	Paragraph St • B I U		8
Concerns:	🕒 Create 🛃 Edit 👄 Insert 👹		
	📔 Create 🚰 Edit 🖙 Insert 🤹	Remove ⊼ ∧ ∨ ⊻	
	Name	© Remove ⊼ ∧ ∨ ⊻ Template	
		·	
	Name	·	
	Name	·	
	Name No records to display.	·	Item 0 to 0 of
Associated	Name No records to display.	Page: 1 of 1 Go Page size: 50 Change	Item 0 to 0 of
Associated Documents:	Name Ne records to display.	Template Page: 1 of I Go Page size: 50 Change § Remove ⊼ ∧ ⊻	Item 0 to 0 of
	Name No records to display.	Page: 1 of 1 Go Page size: 50 Change	Item 0 to 0 of
	Name Ne records to display.	Template Page: 1 of I Go Page size: 50 Change § Remove ⊼ ∧ ⊻	Item 0 to 0 o
	Name No records to display.	Template Page: 1 of I Go Page size: 50 Change § Remove ⊼ ∧ ⊻	Item 0 to 0 o
	Name No records to display.	Template Page: 1 of I Go Page size: 50 Change § Remove ⊼ ∧ ⊻	Item 0 to 0 of

Figure 4: Dialog for ChangeRequest at creation time and in registration state

Creating a change request from the ChangeRequest HTMLQueryResultView the user will have to manually insert the relevant object in the concerns field.

If the Create Change Request button (GovernanceStateFeature) is used (see Figure 6) which ever object, the change request is created from the concerns will automatically be filled with this object. Figure 5 shows how this is setup in the GWE.

Audits	GovernanceStateFeature : Detail
Describe Authority Detail	Visual Name: Icon on web: changerequest.png v Width: Height:
Custom Script Custom Script Associate Governance	Web Feature:
	Customization: CreateInMemoryObject V Open

Figure 5: The standard create button for change request





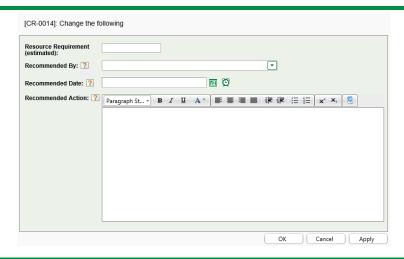


Figure 7: ChangeRequest in Handling state

P							
Recommended Action							
Resource Requirement (estimated):							
Recommended By: <u>?</u>							-
Recommended Date: ?				Ø			
Recommended Action: ?	Paragraph St +	BI	I A *] 📰		≇ ≇ ⊞	§≣ x ² x ₂	9
Actual Action	<u></u>						
Executed By: ?							-
Start Date: ?				Ø			
End Date: ?				Ø			
Resources Spent:							
Corrective Action: 👔	Paragraph St *	B Z I				t≣ x ² x ₂	
	- and graph bain					3	

Figure 8: ChangeReqst in Implementation state



6 Document Management (QDM) Module

The overall purpose of the QDM module is not to be a substitute to SharePoint, but an extension to govern QDM documents. The governance workflow is basically the Change Management workflow with a checkout state, and this is the only state where the object can be edited otherwise it is read-only – if setup correctly.

The "DocumentMangement (QDM).exp" is located in Models/Collaboration/Export Files and the export file consist of:

- GovernanceWorkFlow
 - Document Managment
 - HTMLDialogLayout
 - ExDoc-Create
 - ExDoc-Edit
- HTMLQueryResultView
 - o Documents
- HTMLTemplateDefinition
 - ExternalDocumentQDM

6.1 Preconditions

6.1.1 Setup in QEF console and Repository Administrator (RA)

You should create a local group in the QEF console called QDMAdmin (or any other name you find suited).

This is the QDM admin-group that makes it possible for all users in the group to always be able to edit the QDM object no matter which state it is in.

The QDMAdmin group should therefore have all permissions for your repository. This group can be the same as your other QLM administrators with supervisor permissions.

Permission	Grant
Delete objects permanently	Y
Read objects	\checkmark
Modify objects	$\mathbf{\Sigma}$
Manage configurations	\checkmark
Create objects	$\mathbf{\Sigma}$
Read object ACLs	\checkmark
Edit object ACLs	$\mathbf{\Sigma}$
Change object owner	\checkmark
Connect to repository	\checkmark
View objects by owner	\checkmark
Import data	\checkmark
Remove object reservations	\checkmark

Figure 9: Supervisor permissions (in Advanced viewmode) in RA

The All_Users group just needs the standard permissions. Or all, but Modify Objects right.



All Users [group]			
Permission	Grant		
Delete objects permanently	>		
Read objects	\checkmark		
Edit objects			
Manage configurations	\checkmark		
Create objects	\checkmark		
Read object ACLs	\checkmark		
Eði objet ACLs	\checkmark		
Change object owner	\checkmark		
Connect to repository	\checkmark		
View objects by owner	\checkmark		
Import data	\checkmark		
Remove object reservations	\checkmark		

Figure 10: The standard permissions for All Users group

For the roles associated with the repository you have to give on object level write permissions for the object. This is needed since we do not have write access on a repository level (in Permissions in the repository).

If you only use the Default Role you only have to change for that role.

Repositories	Metamodels	Roles	Scripts
💠 Create Role			-
All Roles			
😨 Default			
General			
Initial Object	ACL		►
Audit			

Default > Initial Object ACL Add User or Group Save Discard	
User or group	
All Users [group]	
Permission	Grant
Read object data	V
Write object data	
Read object ACL	
Edit object ACL	

Figure 11: The Initial Object ACL All Users should have

6.1.2 Setup in QLM

If not already present the TemplateDefinition needs to be added to the HTMLPublisher, and the HTMLQueryResultView has to be added to the HTMLMegaMenu.



Name:	New object
Short Description: 🕐	
Paragraph St B	I U A* ■ 書 書 ■ 課 課 ⊟ 鈕 (x ² ×) 🧕
Document number: 🕐	Version: 👔
Archive: 김	
Document type: 🍸	Controlled
Revision date: ?	🗐 🔯
Next revision: ?	🔟 🔯
Responsible: ?	
Owner:	· · · · · · · · · · · · · · · · · · ·
Keywords: ?	Paragraph St▼ B Z U A * ■ 書 書 譯 課 ⊟ ⊟
	x ² x ₂
FileDetails	
File Name:	
Storage system:	5 QIS based QDM × 🔻
Remote file:	
Media type:	Audio
File:	Select
	File size should not exceed 50 MB.



6.2 The Governance workflow

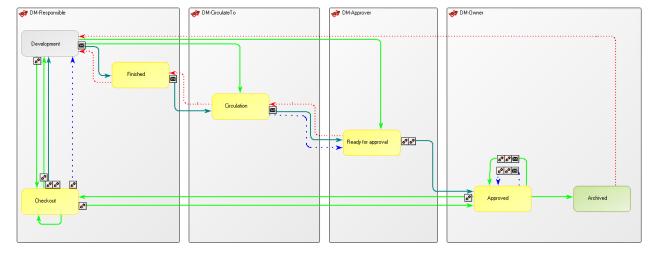


Figure 13: Document Management GovernanceWorkflow

The Apply condition for the GovernanceWorkFlow is <u>not</u> the standard *Generic-UseTemplateList*.



GovernanceWorkFlow :	: Detail				
Calendar:	Default [Calendar]			~	+
Actions on New Object:	DM-Remove-WriteAccess [Governam	iceActionLis	t]	~	+
Actions on New Revision:				¥	+
Actions on Error:				~	+
Check events at workflow level:	Name	Rev.	Туре		
	<				>
Apply Condition:	DM-IsQDMDoc [GovernanceBoolMet	hod]		~	+
Template List:					^

Figure 14: The Detail tab on the GovernanceWorkFlow

The condition checks for FileOrigin is "5 QIS based QDM" and Template is ExternalDocument, as shown below in the GovernanceBoolMethod:

GovernanceBoolMethod : Advanced						
Actual Name:		VerifyAttributeList	۷ ?			
	Parameter	Value	Comment			
ф ф	{FileOrigin} {Template}	5 QIS based QDM ExternalDocument	Add Attribute to be Verified Add Attribute to be Verified			

Figure 15: GovernanceBoolMethod that defines the QDM document to be registered by the GWE

When the ExternalDocument is registered by the GWE it has three initial actions:

- 1. It updates the responsible to current user if no responsible is set.
 - a. N.B. If the responsible is set then to change it the document needs to be checked out to make that change.
- 2. Next it updates participant list for the object.
 - a. The participant list are the users who may do a transition on the object. Checkout transition is set to have authority <u>Everyone</u>.
- 3. Lastly the write access is updated to read-only.

Name	Rev.	Туре	Modified	
UpdateResponsible	0	GovernanceAction	2015 02 04 11.08:20	Q
UpdateParticipants	0	GovernanceAction	2015 02 04 11.46:31	Q
UpdateWriteAccess	0	GovernanceAction	2015 02 04 10.58:32	Q



The participants (GovernanceRole) throughout the GovernanceWorkFlow are as follows:

Responsible nedBy nor* e Author role is only applicable when the document is cked out. The check outed person is inserted into the nor attribute.
nor* decision of the second se
e Author role is only applicable when the document is cked out. The check outed person is inserted into the
cked out. The check outed person is inserted into the
en the document is checked in / cancelled this bute is emptied and automatically set when the ument is checked out again.
is used to give write access to the person checking the document.
document responsible (HasResponsible) will matically also get write access when the document is cked out.
ulateTo
Responsible
Responsible
nedBy
eApprovedBy
Responsible
nedBy

qualiware®

6.2.1 Important transitions

6.2.1.1 Development to/from Checkout

When going from *Development* to *CheckOut* the write access is given to the person checking out the document (Author attribute) and the responsible of the document (HasResponsible attribute).

A new revision is created for each time the document is checked out.

If the user *Cancels* the checkout, then the new revision is permanently deleted and the previous object is set to default. The reason for it being permanently deleted is in order to have the correct increment of revision number.

The user *Check in* the document, and a log entry is appended to the *HistoryOfChange* attribute.

If a message is written in the *DescriptionOfChanges* attribute; then this message is also appended. See the example below.



2015 04 13 09:25: Checked in by QualiWare Administrator I've changed the structure. ****** 2015 04 13 09:25: Revision 4 created from 3 (en-US) by QualiWare Administrator ****** 2015 04 13 09:25: Checked out by QualiWare Administrator ****** 2015 04 13 09:24: Checked in by QualiWare Administrator No message. *****



6.2.1.2 Development to Circulation

Going from *Development* to *Circulation* a message will be send to all on the circulation list (*CirculateTo* attribute). Everyone on the circulation list will be able to send the document to *Ready for approval* or back to *Finished*.

6.2.1.3 Ready for approval to Approved

Going from *Ready for approval* to *Approved* an approval message will be appended to the history of changes.

2015 06 04 10:20: Revision 4 (en-US) approved by QualiWare Administrator

Figure 18: HistoryOfChanges automatic approval message

6.2.1.4 Approved to/from Checkout

This does the same as in the transition from *Development* to *Checkout*, except when you check in the document it has to go through the whole governance workflow again to be approved.

6.2.1.5 Promote

If a private workspace is used with the GovernanceWorkFlow; it can manually be promoted when it is approved or automatically promoted if the ValidFrom date attribute is set.



7 CAI Management Module

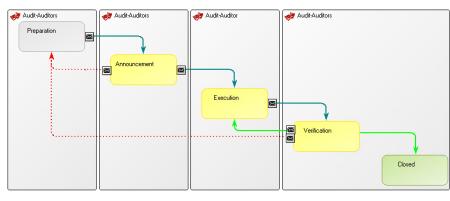
The Audit module contains the handling of quality audits, corrective actions and nonconformances.

The "CAIManagment.exp" export file consist of:

- GovernanceWorkFlow
 - Audit Management
 - CorrectiveAction Managment
 - NonConformance Management
- HTMLDialogLayout
 - Audit-Creation
 - Audit-Preparation
 - Audit-Verification
 - Audit-Execution
 - CA-Creation
 - CA-Registration
 - CA-Handling
 - CA-Implementation
 - NC-Creation
 - NC-Registration
 - NC-Handling
 - NC-Verification
 - NC-Implementation
 - HTMLQueryResultView
 - o Audits
 - Corrective Actions
 - Non Conformances
- HTMLTemplateDefinition
 - QualityAudit
 - CorrectiveAction
 - NonConformance

7.1 Quality Audit

7.1.1 The governance workflow





Preparation	The audit is prepared.
Announcement	An email is sent to lead auditor and auditors
Execution	The audit is executed, and an email is sent to lead auditor
Verification	The audit is verified, and an email is sent to lead auditor
Closed	The audit is closed

7.1.2 Web

The quality audit is portrayed in the form of two tabs one with the propertysheet for the quality audit with all its data, and the other shows the governance history.

User: QualiWare Administrator Role: Default	Audit 2	Z Eát: Governance Action
▼ Information	Quality Audit Governance History	
Created by: Qual/Ware Administrator Creation date: 2015-10-30 11.07:51		
Modified By: QualiWare Administrator	Status:	Preparation
Last Modified: 2015-10-30 11.08:08	Sequence ID:	QA-0003
	Last Modified:	2015-10-30 11.08:08
	Lead Auditor:	2 QualiWare Administrator
	Auditor:	
	Auditee:	
	Audit Date:	
	Documents:	
	Target Process:	
	Target Regulation:	
	Questions:	
	Non-Conformance:	
	Change Request:	
	Conclusion:	

Figure 19: HTMLTemplateDefinition for

The HTMLQueryResultView consist of a custom create button, which only means that the Create dialog will open immediately.

Au	Audits							
	ireate 🗾 Edit							
-	Name 🗸	Sequence ID	Audit Date	Lead auditor	Auditor	Auditee	Short Description	Status
_								

Figure 20: The HTMLQueryResultView for quality audits



7.1.3 Dialogs

New object	
New Quality Aud	lit
Name: Short Description:	New object Paragraph St▼ B I U A *) 目 目 目 詳 詳 ⊟ ⊟ x ³ X ₂ ♥
Lead Auditor: ?	John Smith [Person]
Auditor: 🕐	🕒 Create 📴 Edit 📾 Insert 💥 Remove 🧮 🧄 🗸 🗸 🗸
	Name Template
	No records to display.
	Page: 1 of 1 Go Page size: 50 Change Item 0 to 0 of 0
Auditee: ?	🕒 Create 📴 Edit 🐵 Insert 💥 Remove ⊼ ∧ ∨ ⊻
	Name Template
	No records to display.
	H Page: 1 Go Page size: 50 Change Item 0 to 0 of 0
Audit Date:	🔲 🔯 Audit type: 🔽
Originator:	John Smith [Person]
	8-, ,,
	OK Cancel Apply

Figure 21: Quality audit at creation time



ubject	
larget object: ?	🕒 Create 🛃 Edit 😞 Insert 👸 Remove ⊼ ∧ ∨ ⊻
	Name Template
	No records to display.
	Image: 1 Go Page size: 50 Change Item 0 to 0 of 0
Farget regulation:	2 Create BEdit Seal Insert Seamove ⊼ ∧ ∨ ⊻
	Name Template
	No records to display.
	K I H Page: 1 of 1 Go Page size: 50 Change Item 0 to 0 of 0
Questions: ?	Paragraph St▼ B Z U A ▼ I I I I I I I X ² X ₂ .
Associated	Create
Associated	© Create © Edit soa Insert ∞ Remove ∧ ∨ Name Template
Associated	
Associated	Name Template
short	Name Template
Associated Documents:	Name Template No records to display.
Associated Jocuments:	Name Template No records to display.
Associated Jocuments:	Name Template No records to display.
Issociated Documents:	Name Template No records to display.
Issociated Documents:	Name Template No records to display.
Issociated Documents:	Name Template No records to display.
ssociated	Name Template No records to display.

Figure 22: Quality audit in preparation

	Name	Template	
	No records to display.		
	14 • 1 • • Page: 1	of 1 Go Page size: 50 Change	Item 0 to 0 of 0
Auditee: ?	🖺 Create 🛃 Edit 📾 Insert 💥 Remove	⊼ ^ ⊻	
	Name	Template	
	No records to display.		
	I I Page: I	of 1 Go Page size: 50 Change	Item 0 to 0 of 0
Audit Date:	H I Page: I Image: Imag	Audit type: 1. party - In	

Figure 23: Quality audit in preparation continued



QA-0002 : Audit 1	
Non-Conformance: ?	🕒 Create 🔤 Edit 😞 Insert 🔅 Remove 🛪 ∧ ∨ ⊻
	Name Template
	No records to display.
	Image: 1 Page: 1 of 1 Go Page size: 50 Change Item 0 to 0 of 0
Change Request: ?	陼 Create 🛃 Edit 😞 Insert 💑 Remove 🛪 ∧ ∨ ⊻
	Name Template
	No records to display.
	Image: 1 of 1 Go Page size: 50 Change Item 0 to 0 of 0
Conclusion: ?	Paragraph St▼ B I U A ▼ ≡ ≡ ≡ ‡ ‡ ⊟ ⊟ x ³ × ₁ 🥑
Approval	
Lead Auditor: ?	Process Owner: ? Auditee: ?
Audit Documents	
Associated Documents:	🕒 Create 📴 Edit 🐵 Insert 💥 Remove 🧮 🧄 🗸 🗸 🗸
	Name Template
	No records to display.
	Page: 1 Go Page size: 50 Change Item 0 to 0 of 0
	OK Cancel Apply

Figure 24: QualityAudit in execution state

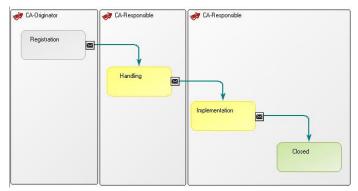


QA-0002 : Audit 1	
Verification text:	
Verified By:	्र र र र र र
Verification Date:	
Audit Documents	
Associated Documents:	Nereate 🛃 Edit 🥪 Insert 💥 Remove ⊼ ∧ ∨ ⊻
	Name Template
	H I Page: 1 Go Page size: 50 Change Item 0 to 0 of 0
	OK Cancel Apply

Figure 25: QualityAudit in verification state

7.2 Corrective Action

7.2.1 The governance workflow



State	Description
Registration	The corrective action is registered.
Handling	It goes into handling and an notification is sent to the responsible
Implementation	The corrective action is implemented, and an email is again sent to the responsible (it can be a different person in each state)
Closed	The corrective action is closed

7.2.2 Web

The corrective action is portrayed in the form of two tabs one with the propertysheet for the corrective action with all its data, and the other shows the governance history. GWE



User: QualWare Administrator	A Corrective Actions		
Role: Default	CA 4		🖉 Edit 🛛 😋 Governance Action 💌
▼ Information	Corrective Action Governance History		
Created by: Qual/Ware Administrator Creation date: 2015-10-30 11.45:38	Status:	Registration	
Modified By: Qual/Ware Administrator Last Modified: 2015-10-30 11.45:46	ID:	CA-0006	
	Last modified:	2015-10-30 11.45:46	
	Related Non-conformance:		
	Short Description:		
	Responsible:		
	Goal:		
	Recommended Action:		
	Recommended By:		
	Recommended Date:		
	Estimated Cost:		
	Estimated Resource Requirement:		
	Due Date:		
	Corrective Action:		
	Action Taken By:		
	Start Date:		
	End Date:		
	Cost of Non-conformance:		
	Resources Spent:		
	Closing Date:		



The HTMLQueryResultView consist of a custom create button, which only means that the Create dialog will open immediately.

Corrective Actions								
-	Name -	Sequence ID	Related To	Responsible	Short Description	Created By	Created Date	Status

Figure 27:HTMLQueryResultView CorrectiveAction



7.2.3 Dialogs

New object		
New Corrective A	Action	
Name: * Responsible: Description:	New object Paragraph St ▼ B J U A ▼ 目 目 目 目 目 日 □ x* x. ●	
	Paragraph St • B I U A • E = = = = ☐ ☐ ☐ ☐ × × . 9	
Related NC:	Image: Create generation Create generation Create generation Name Template No records to display.	
Goals: ?	Image: Image	o 0 of 0
	Name Template	
	Image: 1 of 1 Go Page size: 50 Change Item 0 to	o 0 of 0
	OK Cancel	Apply

Figure 28: Corrective action at creation time and registration

[CA-0006]: CA 4	
* Responsible:	John Smith [Person]
Due date: ?	0 🔟
Rec. Date:	🖾 🖾
Estimated cost for CA:	
Estimated Res?rce Requirement:	
Recommended By: <u>?</u>	
Recommended Action: ?	Paragraph St▼ B I U A * ■ 書 書 書 譯 譯 ⊟ ⊟ x* × . 🥊
	OK Cancel Apply

Figure 29: Corrective action dialog at handling state

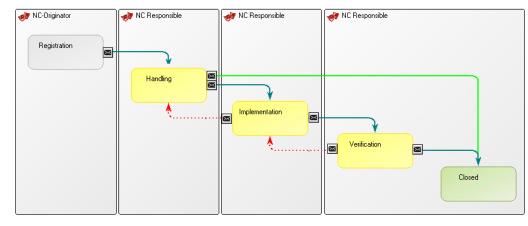


Responsible:	John Smith [Pers	on]							•
Recommened Actions									
Due date: ?			🖻 🖸						
Rec. Date:			o 🖸						
Estimated cost for CA:									
Estimated Res?rce Requirement:									
Recommended By: 👔									
Recommended Action: 👔	Paragraph St +	BI	<u>u</u> A·	==		संह रहे	EE	x ¹ X ₁	
	test						3	<u> </u>	
Actions taken									
Start Date: ?									
			e 🖸						
End Date: 🕐			o 🖸						
Cost of NC:									
Resources spent: 👔									
Action taken by: ?									
Corrective Action Taken: 📝	Paragraph St *	BI	<u>u</u> A *	≣≣	≡ ≡	÷ ÷	IE IE	x ² X ₂	2
Closing date: 👔			0						
	1								

Figure 30: Corrective action dialog at implementation state

7.3 Non-Conformance

7.3.1 The governance workflow



State	Description
Registration	The non-conformance is registered.
Handling	The non-conformance is handled with an immediate action.
	Email sent to responsible:



	Fri 10/20/2015 8.59 AM no-reply@qualiware.com To Dear John Smith You are responsible for handling the non conformance: NC1 Observation: I observed the following aspect I did not expect. Regards, QualiWare Lifecycle Manager
Implementation	The corrective actions are implemented – either as a description or creating an actual corrective action object. Email sent to responsible:
Verification	Verify the implementation and handling of the non-conformance. Email to responsible: Fit 10/30/2015 9:34 AM no-reply@qualiware.com [NC-0005] NC1 Dear John Smith You need to verify the implementation of the non conformance <u>NC1</u> . Regards, QualiWare Lifecycle Manager
Closed	The non-conformance is closed. The register gets an email: Fri 10/30/2015 9:47 AM no-reply@qualiware.com [NC-0006] NC1 Dear John Smith The handling of the non conformance <u>NC1</u> has been closed. Regards, QualiWare Lifecycle Manager



7.3.2 Web

The non-conformance is portrayed in the form of three tabs one with the propertysheet for the non-conformance with all its data, overview of related corrective action objects and the governance history.

User: QualiWare Administrator Role: Default	Something happ	pened		🖊 Edit	Governance Action
▼ Information	Non Conformance	Corrective Actions to NonConformance	Governance History		
Created by: QualiWare Administrator	Non Conformance	Conecuve Actions to NonContonnance	Governance History		
Creation date: 2015-10-07 10.15:55 Modified By: QualiWare Administrator	Status:	Registratio			
Last Modified: 2015-10-30 11.18:01	octabilities in the second sec				
	Responsible:		re Administrator		
	Last Modified:	2015-10-30	11.18:01		
	Observation:	No observa	ion transfered		
	Explanation:	No diagnos	3		
	Against:				
	Originated By:	🔒 QualiVi	re Administrator		
	Originated Date:	2015-10-00	09.16:10		
	Immediate Action:	No immedi	e actions transfered		
	Immediate Action Ex	xecuted By:			
	Immediate Action Ex	xecuted Date:			
	Corrective Action Ta	aken:			
	Action Taken By:				
	Start Date:				
	End Date:				
	Verification Text:				
	Verified By:				
	Verification Date:				
	Closing Date:				



Non Conformance Corrective Action	ns to NonConformance	Governance Histor
1 Non-Conformances	0%	
Correct this		
Responsible: 🧣 QualiWare Administrator		Status:
Description:		

Figure 32: HTMLContentBlog for related corrective action objects

The HTMLQueryResultView consist of a custom create button, which only means that the Create dialog will open immediately.

No	lon Conformances							
	Center Set							
-	Name A Sequence Against Responsible Short Description Originated Originated Originated Originated Date Status						Status	

Figure 33: Non-Conformance HTMLQueryResultView



7.3.3 Dialogs

New object	
New Non Conform	nance
Name:	New object
Priority:	
Responsible:	
Observation: ?	Paragraph St▼ B I U A*
Explanation: 7	Paragraph St* B I U A* 副書書書譯譯語》 X * 9
Attachments:	Noreate 202 Edit sea Insert 202 Remove ⊼ ∧ ∨ ⊻
	Name Template
	No records to display.
Against:	🕒 Create 🛃 Edit 🥯 Insert 👹 Remove 🖂 🔨 🖌 🖌
	Name Template
	H Page: 1 Go Page size: 50 Change Item 0 to 0 of 0
	OK Cancel Apply

Figure 34: Dialog for creation of Non-Conformance and registration state

Responsible: ?	John Smith [Person]	
Immediate Action executed by: Immediate Action executed date:		· · · · · · · · · · · · · · · · · · ·
Immediate action:	Paragraph St * B I U A * E =	書書 律律 ≔ ≔ ≔ x, x, 🧕
Attachments:	🕒 Greate 🛃 Edit 🥪 Insert 🚎 Remove 💢 🥕	√ ∨ ⊻
Attachments:	Create 避 Edit 🥪 Insert 💥 Remove 🛪 🗸	x ∨ ⊻ Template
Attachments:		
Attachments:	Name	Template

Figure 35:Non-Conformance in Handling state



Responsible: ?	John Smith [Person]
Action taken by: ?	
itart Date: 🕐	
nd Date: 🕐	1 (C)
ost of Non Conformance / Cont eficiency:	
esources spent on corrective Action:	
orrective Action Taken: 🕐	
Paragraph St * 18 I U	A* 善善者 律律 注注 x* X 💡
Paragraph St • B I U	A* 手 吾 君 〓 「荐 律 田 田 x* × 9
Paragraph St B I U	Ăヾ│ĔĔĔ≣Ĕ¢¢î⊞∐│x°×₀(9)
Paragraph St B I U	Ă*│ĒĒĒĒĒ¢Ē⊞∐X*×}♥
Paragraph St 👻 🖪 I 🗓	A* 臣 吾 君 重 伊 伊 汪 汪 x' × 9
Paragraph St B I U	Ă*│Ĕ著書■∥≇∉ ⊟ ⊟ x* × 9
Paragraph St * B I U	Ă*│Ĕ著書■∥≇∉ ⊟ ⊟ x* × 9
Paragraph St B I U	A* ≝ ≝ ≝ ≝ /≇ (≇ 1⊞ ± × × 9
losing date: ?	
losing date: 👔 ttachments:	
losing date: ?? Itachments: `© Create ⊋Edit ∞ Insert ॐ	Remove ⊼ ∧ ∨ ⊻
losing date: ?? Itachments: Create JEdit ∞ Insert 🐲 Name	
losing date: ?? Itachments: Create JEdit ∞ Insert 🐲 Name	Remove ⊼ ∧ ∨ ⊻
losing date: ?? Itachments: Create JEdit ∞ Insert 🐲 Name	Remove ⊼ ∧ ∨ ⊻
losing date: ?? Itachments: Create JEdit ∞ Insert 🐲 Name	Remove ⊼ ∧ ∨ ⊻
:losing date: ?? .ttachments:]≥ Create @Edit ∞ Insert ॐ	Remove ⊼ ∧ ∨ ⊻
losing date: ?? Itachments: Create JEdit ∞ Insert 🐲 Name	Remove ⊼ ∧ ∨ ⊻

Figure 36: Non-Conformance in Implementation state

Responsible: 🕜	John Smith [Person]
Verified By:	
Verification Date:	
Verification text:	Paragraph St * B I U A * 副書書 詳 詳 語 語 x* ×, 🧕
Attachments:	Create
Attachments:	Create Create Compare Compare Name Template

Figure 37: Non-Conformance in Verification state



8 Complaint Module

The overall purpose of the complaint module is a way to govern the handling of a complaints.

The "ComplaintManagement.exp" export file consist of:

- GovernanceWorkFlow
 - o Complaint Managment
- HTMLDialogLayout
 - COM-Creation
 - COM-Registration
 - COM-Acceptance
 - COM-Finished
 - COM-Handling
 - COM-SecondHandling
 - o COM-Subtab-Announcement
 - o COM-Subtab-AssociatedDocuments
 - COM-Subtab-Responsibility
 - COM-ExternalDocument-Creation
- HTMLQueryResultView
 - Complaints
 - COM-Documents
- HTMLTemplateDefinition
 - Complaint

8.1 Complaint metamodel

Complaint	🚇 Complaint : Com	plaint	
Audits Details	Complaint description		
Priority			^
Responsibility			
Immediate response			
Analysis			~
Handling Final response			×
Close	File number:	File registration date:	
Second handling			
Describe	Customer:	v +	
Governance Associate	Customer contact:		
	Customer reference:		
	Received date:	Originated date:	2015 okt 05
	Originated by:	QualiWare Administrator [Person]	 ✓
		Status:	Registration V
		ID	COM-0011

Name	Attribute	Description
Complaint description	ShortDescription	Describing the complaint
File number	FileNumber	A file number for the complaint
File Registration date:	FileRegistrationDate	The date for when the file is registered for the complaint



Customer	Customer	Which customer reported the complaint
Customer contact	CustomerContact	Contact information about the customer
Customer reference	CustomerReference	Reference to ExternalEntity or BusinessConnection
Received date	ReceivedDate	Date for the complaint was received from the customer
Originated by	OriginatedBy	Who registered the complaint
Originated date	OriginatedDate	When was the complaint registered
Status	Status	This is used for displaying the status in QRVs and legacy control of the status of the object
ID	SequenceID	Incremental ID count for each incident created

Complaint	🛛 🔚 Complaint : Details			
Audits				
Details	Complaint type:		~	
···· Priority				
···· Responsibility	Product or service category:		~	
···· Immediate response				
···· Analysis	Related to product or service:	Name	Rev.	Туре
···· Handling				
···· Final response				
Close				
···· Second handling				
Describe		< 111		>
Governance	Product or service:			
	Product or service:		~	
	Internal reference 1:			
	Internal reference 1:			
	Internal reference 2:			
	Internal reference 2:			
	Internal reference 3:			
	Internal reference 3:			

Name	Attribute	Description
Complaint type	Туре	Type of the complaint. Predefined values: complaint, claim, customer feedback.
Product or service category	ProductOrServiceCategory	Category of the product/service – only generic predefined values



Related to product or service	RelatedToProductOrService	BusinessObject can be inserted here.		
Product or service	ProductOrService	Related product/service has predefined values: hardware, software, service and training or other.		
Internal reference 1	InternalReference1			
Internal reference 2	InternalReference2			
Internal reference 3	InternalReference3			

Complaint	Complaint : Priority	٦
···· Audits ···· Details ···· Priority	Impact:]
···· Responsibility ···· Immediate response	Urgency:]
Analysis Handling		
···· Final response ···· Close ···· Second handling		
Describe Governance	Priority:]
Associate	Check, if priority should not be automatically be calculated based on urgency and impact	

Name	Attribute	Description
Urgency	Urgency	How urgent/how quickly is action required for this incident
Impact	Impact	What is the impact of the incident, how many people are effected
Priority	Priority	The priority going from critical, high, medium, low and very low are a combination of urgency and impact
		Priority is set by adding impact and urgency, and then depending on the value the priority is set (see the table below



		showing all the possible values and its priority).
Check, if priority ()	CheckboxForPriorityAutomation	If for a specific incident priority should not automatically be set based on urgency and impact this should be checked, and the dialog reloaded to make the priority field enabled

Complaint	🖫 Complaint : I	Responsibility			
Audits					
··· Details	Responsible:				✓ +
Priority				-	
Responsibility	Read access:	Name	Rev.	Туре	Modified
Immediate response					
Analysis					
··· Handling					
Final response					
Close					
···· Second handling					
Describe					
		<			>
		×			7
	Read/Write	Name	Rev.	Туре	Modified
	access:				
		<			>
		×			/

Name	Attribute	Description
Responsible	HasResponsible	Who is responsible for handling the complaint
Read access	ReadAccess	Who is allowed to read the complaint (if empty all can read)
Read/write access	WriteAccess	Who is allowed to read and write to the object (if empty all can write)



Complaint	Complaint : Immediate response	
···· Audits	Turne di ba anno banka	
··· Details	Immediate response text:	
··· Priority		^
Responsibility		
Immediate response		
···· Analysis		
···· Handling		
··· Final response		\sim
···· Close		
···· Second handling	Internal notes:	
Describe		^
Governance		
		\sim
	Preliminary response date:	
	Response deadline:	
	Response deadline:	

Name	Attribute	Description
Immediate response text	ImmediateResponseText	What is the immediate response to the complaint
Internal notes	InternalNotes	Internal notes about the complaint
Preliminary response date	PreliminaryResponseDate	The date for the immediate response
Response date	ResponseDeadline	Deadline for the actual response to the complaint

Complaint	🔚 Complaint : Analysis	
Audits	Root cause:	
Details	Root cause:	
··· Priority		~
···· Responsibility		
···· Immediate response		
Analysis		
···· Handling		
Final response		
Close		
···· Second handling		
Describe		\sim
Governance		
E- Associate	Root cause category:	

Name	Attribute	Description		
Root cause	RootCause	What was the root cause of the complaint		



	1			
Root cause category	RootCauseCategory	Category for the root cause:		
		Product application Tooling Documentation External transport Packing Handling error Internal transport Design Materiel Human Storing Communication failure Delay Training Other		

Complaint	🛛 🖫 Complaint : Han	Idling				
Audits Details Priority	Non Conformances:	Name		Rev.	Туре	Modifie
···· Responsibility ···· Immediate response		<	Ш			>
···· Analysis ···· <mark>Handling</mark> ···· Final response	Change requests:	Name		Rev.	Туре	Modifie
···· Close ···· Second handling		<	Ш			>
Describe ∃ Governance ∃ Associate	Corrective actions:	Name		Rev.	Туре	Modifi
		<	Ш			>
	Planned actions:					^
						~
	Expenses:				Currency:	¥

Name	Attribute	Description
Non Conformances	RelatedNonConformance	Related non conformance(s) to the complaint
Change requests	RelatedChangeRequest	Related change request(s) to the complaint
Corrective actions	CorrectiveActions	Related corrective action(s) to the complaint
Planned actions	PlannedAction	Description of the planned action
Expenses	Expenses	Expenses for handling the complaint
Currency	ExpenseCurrency	Currency for the expenses



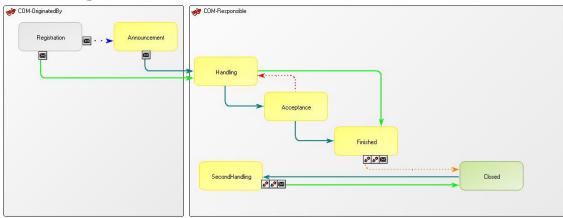
Name	Attribute	Description
Closing text	ClosingText	Closing comments
Outcome	Outcome	Outcome of the complaint predfined; accept, reject, pending
Learnings	Laernings	Learning from the complaint
Costs	Costs	The cost of the complaint
Currency	CostCurrency	Currency of the cost
Closing date	ClosingDate	When is the complaint closed
Closed by	ClosedBy	By whom is the complaint closed

Complaint	🚇 Complaint : Second	d handling					
Audits Details	Date for 2nd handling:		Customer handling:				¥ +
Priority Responsibility Immediate response Analysis	Attachments 2nd handling:	Name			Rev.	Туре	Mod
Handling		<		Ш			>
Final response Close <mark>Second handling</mark> Describe	Notes 2nd handling:						
B Governance B Associate	Conclusion 2nd handling:						~
	Outcome 2nd handling:			~			
	Response date 2nd handling:						
	Closed date 2nd handling:			Closed by handling:	2nd		v +



Name	Attribute	Description
Date for 2 nd handling	DateFor2ndHandling	When was the complaint opened again
Customer 2 nd handling	Customer2ndHandling	Customer for 2 nd handling
Attachments 2 nd handling	Attachments2ndHandling	New attachments for handling the complaint
Notes 2 nd handling	Comment2ndHandling	New notes/comments for handling the complaint again
Conclusion 2 nd handling	Conclusion2ndHandling	Conclusion of the 2 nd handling
Outcome 2 nd handling	Outcome2ndHandling	Outcome of the 2 nd handling
Response date 2 nd handling	ResponseDate2ndHandling	When was a response given to the customer
Closing date 2 nd handling	ClosedBy2ndHandling	Who closed it
Closed by 2 nd handling	ClosedDate2ndHandling	When was it closed again

8.2 The governance workflow



State	Description
Registered	The complaint gets registered
Announcement	If there is a need to send out an email to the originator of the complaint then the announcement



	is sent to the responsible (HasReponsible) of the complaint.
Handling	Handling of the complaint. Possible Change Requests, Non- Conformances and Corrective actions might be created here as actions.
Acceptance	Acceptance of the handling
Finished	Final remarks regarding the complaint.
Second handling	If needed the complaint can be opened again.

8.3 Web presentation of Complaints 8.3.1 The template definition

User: QualiWare Administrator Role: Default	New object						
Complaint ID: COM-0009	Complaint	Complaint Second Handling Change Request		ts Non-Conformances Corrective Actions Governance His			
Status: Registration Type: Complaint	ID			COM-0009			
Responsible: Created by: 2 QualiWare Administrator	Name	Name		New object			
Modified by: QualiWare Administrator	Description						
Last modified: 2015-10-05 13.43:10	File number	r		123			
ReadWrite limitations	File registra	ition date		2015-10-14 00.00:00			
Read:	Customer			i test			
Read/Write:	Customer c	ontact					

8.3.2 The QueryResultViews

The create button is a custom create that opens the HTMLDialogLayout with CreateInMemoryObject customization. The HTMLDialogLayout called "COM-Creation".

Audits Explorer	Button	Text	Tooltip		Role	Custom	Display Mode	Image	Command	
Explorer Settings Explorer Parameters Explorer Filter	CustomCreate	Create Rename Delete	Create new complai Rename selected co Delete selected con	omplaint		true	ToolbarAndContext	Create.gif	Generic.Cr	eateInMemory.
- MultiLink - Describe - Associate	<			I	I					
	Ouery Column	Column Header	Width	Filters	Filter Type	Sort/Filter by	Plain text Ver	rtical align	Wrap header	Wrap item
Governance										
Governance	Name	Name				Value	false Top	0	true	true
sovernance		Name Sequence ID				Value Value	false Toj false Toj		true true	true true
sovernance	I Name	Sequence ID						5		
overnance	Name E SequenceID	Sequence ID				Value	false To	5	true	true
Governance	Name E SequenceID HasResponsible	Sequence ID Responsible				Value Value	false Toj false Toj	5 5	true true	true true

8.3.3 Possible ExternalDocument customization



 You want the external document dialog to open immediately, when clicking the create button in the associated documents multilink. And you want the name of the external document to be name of the attached document.
--

With the import of ComplaintManagement.exp you get a custom dialog for external document '*COM-ExternalDocument-Creation'*.

Storage system:	
File Name:	
File:	
Dialog buttons	OK Cancel Apply

If storage system is "5 QIS based QDM" you will get the Select button, where you can browse your way to the document.

If storage system is "1 File System" you can write a path to the document – N.B. the path should begin with the servername and shared folder – otherwise others cannot download/see the document. E.g. <u>\\QWServer\SharedDocuments\test.docx</u>.

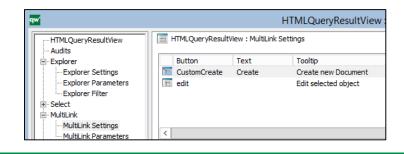
This dialog for ExternalDocument contains a custom OK button calling the following script:

	Cancel Apply	
HTMLDialogField : Cus	tomOK : Rev. 0 : Default	
HTMLDialogField : HTMLD	DialogField	
Short Description:		
Field type:	Button	Mandatory:
Heid type.	Button +	j Manuatory.
Prompt:	×	+ Read only:
Initial value:		Hidden:
Link options/ Data options:	GweDynamicCode.TriggerInse	rtExternalDocument



<qlm:Button ID="customOK" Text="OK" AssociatedControlIDs="" OnClick="GweDynamicCode.TriggerInsertExternalDocument" runat="server" width="75px" />

In order to call the custom create dialog for ExternalDocument you have to change/add a custom create button in the HTMLQueryResultView called COM-Documents in MultiLink Settings.





Copy-paste the following code into the Button area:

```
<item><Icon>QRVCustomButtonIcon</Icon><tooltip>Create new
Document</tooltip><Role></Role><custombutton>true</custombutton><id>Custo
mCreate</id><text>Create</text><displayMode>ToolbarAndContextMenu</display
Mode><image>Create.gif</image><command>Generic.CreateInMemoryObjectFromQ
RV</command><commandArg>ExternalDocument;ComplaintCustomCreate</comma
ndArg></item>
```

8.3.3.1 Manual change to the Complaint dialog

N.B. IF you GenerateHTML for any of the Complaint dialogs then you will have to add the following code again.

You can make the HTML field editable by calling this QCL code on the object:

CurrInst->DlgField("HTML", "en");

Inorder to call the custom create button for the documents multilink you will have to add the following code manually (the bold font).



```
AssociatedControlIDs="SubDocumentsId1" runat="server"
width="777px" height="535px">
<Templates><Template name="ExternalDocument"
/></Templates>
</qlm:MultiLink>
</div>
```

The subtab "COM-Subtab-AssociatedDocuments" contains a hidden textfield and editbutton with a specific name and a button that calls a script.

```
/* An invisible button and textfield is added to the Complaint dialog */
<div runat="server" ID="SubDocumentsId2" style="position:absolute;</pre>
left:90px; top:700px; width:300px; height:24px; " data-
objid="bf0d8ff8-4a56-45d0-8b15-006c1b318a4a" data-prompt="" data-
mandatory="0" data-hidden="1" data-tooltip="" >
  <div class="attribute editline">
  <qlm:TextBox DataKey="CreateExternalDocumentId"</pre>
  readOnly="false" AssociatedControlIDs="SubDocumentsId2"
  runat="server" width="300px" /></div>
</div><div runat="server" ID="SubDocumentsId3"
style="position:absolute; left:430px; top:700px; width:156px;
height:20px; " data-objid="bd66965c-6184-4604-b5b8-d6b3798e1f64"
data-prompt="" data-mandatory="0" data-hidden="1" data-tooltip=""
>
   <div class="attribute button">
   <glm:Button ID="CreateExternalDocumentButton9310" Text=""</pre>
   AssociatedControlIDs="SubDocumentsId3"
   OnClick="GweDynamicCode.IncludeExternalDocument"
   runat="server" width="156px" /></div></div>
```

The subtab is only added to the Create and Registration dialog – if you want to add it to the other complaint dialogs (in other states) then you have to remember to generate the HTML again and manually change the MultiLink for associated documents again to contain queryname (as explained above).

8.4 The read/write access for complaint objects

The read/write access is changed by adding persons to the fields read access to narrow the people who can read the object (**N.B.** you should always have a responsible if narrowing the read access otherwise no one will be able to write to the object – *but* there is a condition (GovernanceBoolMethod) that will check that the responsible is not empty and then run the read/write update action).



The write access can be limited as well – people in the write access list will also be able to read the object. Therefore you do not have to add people both to read and write access list.

Responsible: ?	
Read access:	📔 Create 🚰 Edit 🥪 Insert 💑 Remove 🛪 🔨 ⊻
	Name Template
	No records to display.
	Page: 1 of 1 Go Page size: 50 Change
14/	
Write access:	🕒 Create 🖉 Edit 📾 Insert 💥 Remove ⊼ ∧ ∨ ⊻
	Name Template
	No records to display.

Figure 39: The read and write access multilinks on Complaint

8.4.1 Relevant C# method overview

/* Every time the object is changed the read/write ACLs are updated */
public static string UpdateReadWriteAccess(MessageBlock message)

/* Remove ACL permission for All_Users */ private static void RemoveACLForAll(ObjPid permission, RepositoryObject obj)

/* Add ACL permission for All_Users */ private static void AddACL(ObjPid permission, RepositoryObject obj)

/* Finds the Person objects equivalent QEF user object */
private static IUser QefUserLogin(RepositoryObject item,
RepositoryObject obj)

/* Gets the list of persons on the WriteAccess list */ private static RepositoryObjectList GetWriteAccesPersons(RepositoryObject obj)



/* Gets the list of persons on the ReadAccess list */
private static RepositoryObjectList
GetReadAccesPersons(RepositoryObject obj)



9 Incident Module

The overall purpose of the incident module is to be able to create incidents, and then having the possible to change the incident to a complaint, non conformance, change request or accident. This is due to the possibility for the end user to just register an incident and then the handler can afterwards "re-categorize" it.

ITIL incident definition: "An unplanned interruption to an IT Service or reduction in the quality of an IT service."¹

The "IncidentManagement.exp" export file consist of:

- GovernanceWorkFlow
 - Incident Managment
- HTMLDialogLayout
 - o INC-Creation
 - INC-Registration
 - INC-Investigation
 - o INC-Handling
 - INC-Finished
 - INC-Subtab-Attachments
 - INC-Subtab-Category
 - INC-Subtab-Handling-Diagnosis
 - INC-Subtab-Investigation-Actions
 - INC-Subtab-Resources
- HTMLQueryResultView
 - Incidents
- HTMLTemplateDefinition
 - o Incident

9.1 The incident metamodel



Incident	Incident : Incident					
Audits						
Observation	Reported by:				V H	+
Priority					× 1	T
Diagnosis	Responsible:	Loa Lind [Person]			¥ 4	+
Resources				-		
Handling	Originated by:	Loa Lind [Person]			× 4	+
Finished						_
	Originated date:	2015 sep 28				,
	Transferred to:	Name	Rev.	Туре		Т
		< III			>	
						<u>́</u>
	Concerns:					÷
	Status:	Registration			~	Л
		Registration			~	<u>_</u>
	Incident ID:	INC-10001				٦
	Incluent ID:					

Name	Attribute	Description
Reported by	ReportedBy	Who reported the incident (BusinessConnection, Person or ExternalEntity)
Responsible	HasResponsible	Who is responsible for handling the incident
Originated by	OriginatedBy	Who registered the incident
Originated date	OriginatedDate	When was it registered
Transferred to	TransferredTo	If the incident is transferred to a different type (see chapter 9.2, page 51) the new object will be automaticcaly inserted here
Concerns	Concerns	If incident is created from e.g. a BusinessProcessNetwork the concerns field is used for the reference to the diagram
Status	Status	This is used for displaying the status in QRVs and legacy control of the status of the object
Incident ID	SequenceID	Incremental ID count for each incident created



Indident : Observation Observation Priority Observation text. Resources Handling Finshed B: Governance B: Associate			
Observation Observation: Priority Observation text. Observation text. ^ Handling		Incident : Observation	
Observation →Priority →Bignosis Resources -Handling -Finished B- Governance B- Associate			
 Priority Disgnosis Resources Handling Finished B⊡ Governance B⊡ Associate 	Observation	Observation:	
Diagnosis Resources Handling Finished B⊡-Governance B⊡-Associate		Observation text	
Resources Handling Finished Governance B- Associate			_
- Handling - Finshed ⊞- Governance ⊞- Associate			
- Finished ⊕- Governance ⊕- Associate			
B- Governance B- Associate			
B Associate			
	Governance		
v			
v			
v			
v			
v			
v v			
v			
· · · · · · · · · · · · · · · · · · ·			
· · · · · · · · · · · · · · · · · · ·			
			\sim

Name

Attribute

Description

Observation

Observation

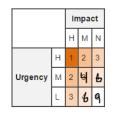
Description of the incident – what was observered.

- Incident - Audits - Priority	Incident : Pr	iority			
Diagnosis Resources Handling Finished Bi Governance	Impact: Urgency:		*		
B- Associate	Priority:	prity should not be automatically set bas	v ed on urgency	and impact	
			ок	Cancel	Apply

Name	Attribute	Description
Urgency	Urgency	How urgent/how quickly is action required for this incident
Impact	Impact	What is the impact of the incident, how many people are effected
Priority	Priority	The priority going from critical, high, medium, low and very low are a combination of urgency and impact



		Priority is set by adding impact and urgency, and then depending on the value the priority is set (see the table below showing all the possible values and its priority).
Check, if priority ()	CheckboxForPri orityAutomatio n	If for a specific incident priority should not automatically be set based on urgency and impact this should be checked, and the dialog reloaded to make the priority field enabled



Priority Code	Description	Target Response Time	Target Resolution Time
1	Critical	Immediate	1 Hour
2	High	10 Minutes	4 Hours
3,4	Medium	1 Hour	8 Hours
4	Low	4 Hours	24 Hours
۹	Very low	1 Day	1 Week

The table showing the "target response time" and "target resolution time" are values that should be part of each customer (BusinessConnection/ExternalEntity) due to it can have different values depending on who reports the incident.

Incident	Incident : Diagnosis	
Audits		
Observation	Diagnosis:	
Priority	Diagnose	^
···· Diagnosis		
Resources		
Handling		
Finished		
• Governance		
🗄 - Associate		
		~
1		



Name	Attribute	Description
Diagnosis	Diagnosis	The diagnosis of the incident, why did it happen. The initial step in handling the incident.

- Incident Audits	Incident : Resou	urces			
Observation Priority	Estimated time:	12	Actual time used:	12	
Diagnosis Resources Handling	Estimated solution delivery:	2015 sep 24	Actual solution delivery:	2015 sep 16	•
 	Estimated cost:	123	Actual cost:	150	
	Currency:	DKKDenmark Krone 🗸	Currency:	DKKDenmark Kro	ne v
	Resources:	Name	Rev.	Туре	Modi
	Resources:	Name	Rev.	Туре	Modi
	Resources:	Name	Rev.	Туре	Modi
	Resources:	Name	Rev.	Туре	Modi

Name	Attribute	Description
Estimated time	EstimatedTime	How many hours is estimated to solve the incident
Estimated solution delivery	EstiamtedSolutionDelivery	When is the solution estimated to be delivered
Estimated cost	EstimatedCost	What is the estimate cost (hardware, upgrades etc.)
Currency	CurrencyEstimated	What is the currency of the cost
Actual time used	ActualTimeUsed	How many hours is actual used to solve the incident
Actual solution delivery	ActualSolutionDelivery	When was the solution actually delivered
Actual cost	ActualCost	What was the cost (hardware, upgrades etc.)
Currency	CurrencyActual	What was the currency of the cost
Resources	Resources	Resources used to solve the incident



Incident	Incident : Handling	
Audits	Immediate actions:	
Observation		<u>^</u>
Priority		
···· Diagnosis		
Resources		
Handling		
Finished		~
Governance		
Associate	Recommended actions:	
		^
		~
	Actual actions	
		<u>^</u>
		<u> </u>
		~

Name	Attribute	Description
Immediate actions	ImmediateActions	Description of the immediate action
Recommended actions	RecommenedActions	Description of the recommended action
Actual actions	ActualActions	Description of the actual actions to solve the incident

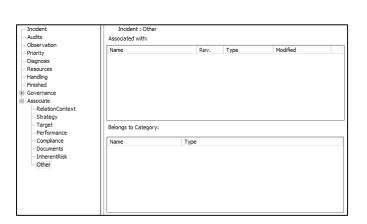
Incident	Incident : Finished
- Audits	Chairman and an
- Observation	Closing remarks:
- Priority	^
Diagnosis	
Resources	
Handling	
Finished	
Governance	
	×

Name	Attribute	Description
Closing remarks	ClosingRemarks	If there are any closing remarks about the incident



Incident Audits Observation	Incident : Docume Associated Documents				
 Priority Diagnosis Resources Handling Finished Governance Associate Relation/Context Strategy Target Orgenents InherentRisk Other 	Name	Rev.	Туре	Modified	

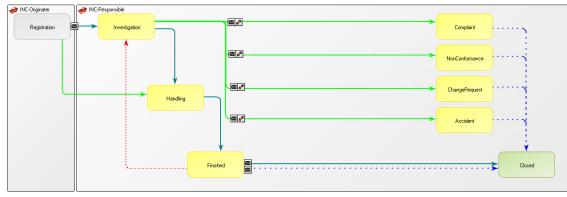
Name	Attribute	Description
Associated documents	AssociatedDocument	Possibility to attach a document (ExternalDocument) containing an email/description in word etc.



Name	Attribute	Description
Belongs to Category	BelongsToCategory	Multiple Category objects associated with the incident



9.2 The governance workflow



State	Description
Registration	The incident gets registered
Investigation	Diagnosis and immediate actions of the incident
Handling	Handling of the incident
Finished	Final description about the incident
Transfer incident to [TYPE]	Based on the incident type of an object the corresponding type will be created where values already inserted into the incident will be transferred.The incident will automatically close when the correct type is created.

9.2.1 Transferring from incident to other template type

On the incident there will be a link to the new object in the field TransferredTo (SingleLink).

Incident	Complaint
Observation	ShortDescription
Diagnosis	ShortDescription
AssociatedDocuments	AssociatedDocuments
Urgency	Urgency



Impact	Impact
Priority	Priority
HasResponsible	HasResponsible
Immediate actions	PlannedActions
Recommended actions	PlannedActions
OriginatedBy	OriginatedBy
OriginatedDate	OriginatedDate
BelongsToCategory	BelongsToCategory

Incident	Non Conformance
Observation	Observation
Diagnose	Explanation
Associated Documents	AssociatedDocuments
Priority	Priority
HasResponsible	HasResponsible
Immediate actions	ImmediateActions
Recommended actions	RecommendedActions
OriginatedBy	OriginatedBy
OriginatedDate	OriginatedDate
BelongsToCategory	BelongsToCategory

Incident	Change Request
Observation	ShortDescription
Diagnose	ShortDescription
Immediate Actions	ShortDescription
Associated Documents	AssociatedDocuments
Priority	Priority
HasResponsible	HasResponsible
Recommended actions	RecommenedActions
OriginatedBy	OriginatedBy
OriginatedDate	OriginatedDate
BelongsToCategory	BelongsToCategory

Incident	Accident
Observation	Cause
Diagnose	AccidentDetails
Immediate Actions	ImmediateActions
Associated Documents	AssociatedDocuments



Priority	Priority
HasResponsible	HasResponsible
OriginatedBy	OriginatedBy
OriginatedDate	OriginatedDate
BelongsToCategory	BelongsToCategory



9.3 Web presentation of incident

9.3.1 Template definition

D: INC-10004 ast Modified: 2015-10-06 12.48:22 Modified By: QualiWare Administrator Responsible: QualiWare Administrator Registration date: 2015-10-06 10.16:10 ▼ Relations Transfered to:	ole: Default	Something happ		
Last Modified 2015-10-06 12.48:22 Modified By: QualiWare Administrator Responsible: QualiWare Administrator Registered by: QualiWare Administrator Registration date: 2015-10-06 10.16:10 Relations Disgnosis: Description Resources Handling Diagnosis: Estimated time: Estimated cost: Currency: Actual isolution delivery: Resources: Description Resources Handling Mathematications: Resources: Actual solution delivery: Resources: Description Resources Handling	Information ID: INC-10004	Description Res	burces Handling	
Responsible: QualiWare Administrator Registered by: QualiWare Administrator Registration date: 2015-10-06 10.16:10	Last Modified: 2015-10-06 12.48:22	Name	Something happened	
Registered by: QualiWare Administrator Registeration date: 2015-10-06 10.16:10		Impact:		
• Relations Observation: Description Resources Handling Transfered to: Diagnosis: Estimated time: Estimated time: Concerns: Estimated cost: Estimated cost: Currency: Actual solution delivery: Actual solution delivery: Description Resources Actual solution delivery: Currency: Actual cost: Currency: Actual cost: Currency: Resources Handling Actual cost: Currency: Actual cost: Actual cost: Currency: Resources: Handling Actual actions: Actual cost: Currency: Actual actions: Actual actions:		Urgency:		
Diagnosis: Diagnosis: Diagnosis: Estimated time: Estimated solution delivery: Estimated cost: Currency: Actual time used: Actual solution delivery: Description Resources: Immediate actions: Currency: Immediate actions: Actual actions: Actual actions:	Registration date: 2015-10-06 10.16:10	Priority:		
Diagnosis: Estimated time: Concerns: Estimated solution delivery: Estimated cost: Estimated cost: Currency: Actual time used: Actual solution delivery: Description Resources: Immediate actions: Resources: Actual actions: Actual actions: Actual actions:	▼ Relations	Observation:	Description Resources Handling	
Estimated solution delivery: Estimated cost: Currency: Actual time used: Actual solution delivery: Description Resources Handling Resources: Immediate actions: Recommended actions: Actual actions:	Transfered to:	Diagnosis:		
Estimated cost: Currency: Actual time used: Actual solution delivery: Actual cost: Currency: Immediate actions: Resources: Actual actions:	Concerns:			
Currency: Actual time used: Actual solution delivery: Description Actual cost: Immediate actions: Currency: Immediate actions: Resources: Actual actions:				
Actual solution delivery: Description Resources Actual cost: Immediate actions: Currency: Recommended actions: Resources: Actual actions:				
Actual cost: Immediate actions: Currency: Recommended actions: Actual actions: Actual actions:			Actual time used:	
Currency: Immediate actions: Resources: Recommended actions: Actual actions: Actual actions:			Actual solution delivery: Description Resources	Handling
Resources: Recommended actions: Actual actions:				
Actual actions:			· · · · · · · · · · · · · · · · · · ·	
Crosing remarks.				
			Closing remarks.	

9.3.2 HTMLQueryResultView

HTMLQueryResultView	udits plorer - Explorer Settings - Explorer Parameters - Explorer Pitter elected incident - Delete selected incident (s) - Social elected incident (s) - Social elected incident (s) - Social elected incident - Delete selected incident (s) - Social elected incident - Delete selected - Delete selected incident - Delete selected - Delete - Delete selected - Delete selected - Delete											
Audits Explorer Explorer Settings Explorer Parameters			Text	Tooltip			Role	Custom	Display Mode	Image	Command	
	E	CustomCreate	Create	Create	new incide	nt		true	ToolbarAndContext	. Create.gi	f Generic.Cr	eateInMemory
	1.00	Tename	Rename	Renam	e selected	incident						
	E	delete	Delete	Delete	selected in	cident(s)						
. Select												
🖭 - MultiLink												
Describe	1					1	1					>
Associate	1											
. Governance		Query Column	Column Header		Width	Filters	Filter Type	Sort/Filter by	Plain text V	ertical align	Wrap header	Wrap item
	E		Sequence ID					Value	false T	ор	true	true
	E	Name	Name					Value	false T	ор	true	true
	E	HasResponsible	Responsible					Value	false T	ор	true	true
	E	sys_Created	Created Date					Value	false T	ор	true	true
	E		Created By					Value	false T	ор	true	true
	(ff)	Status	Status					Value	false T	ор	true	true



10 Contract Module

The contract module consists of a metamodel extension of Contract and BusinessConnection. And a governance workflow to control the states and read/write access of the contract.

The "ContractManagement.exp" export file consist of:

- GovernanceWorkFlow
 - Contract Managment

10.1 Metamodel extension of Contract and BusinessConnection

BusinessConnections metamodel is extended with the following:

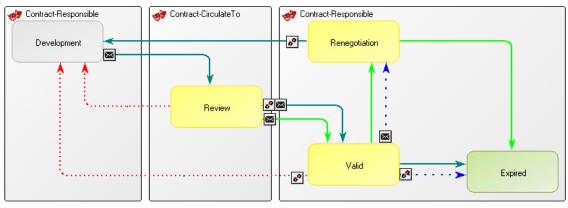
Name	AttributeName	Туре
ExpiredContracts	ExpiredContracts	ListView
ValidContracts	ValidContracts	ListView

Contracts metamodel is extended with the following:

Name	AttributeName	Туре
Туре	ContractType	Combobox
Read	BusinessConnectionRead	ListView
Read/Write	BusinessConnectionReadWrite	ListView

Note: If the contract type is StandardContract then access rights will be everyone.

10.2 The governance workflow



State	Description
Development	The contract is under development
Development -> Review	A notification is sent to persons on
	the CirculateTo list.



	Persons on CirculateTo can write a comment to the contract
Review -> ValidAndApprove	the contract is approved (frozen/approved)
Review -> Valid	The contract is valid (<i>not</i> frozen/approved)
Valid -> Development	A new revision of the contract is created
Valid -> Renegotionation	If the revisionValidTo is set an email is sent to contract responsible.
Renegotiation->Development	A new revision is created.
Valid -> Expired	The contact is moved from ValidContracts on BusinessConnection to ExpiredContracts.



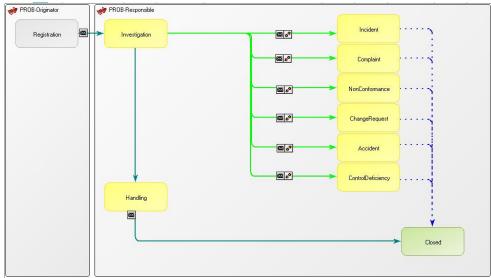
11 Problem Module

Problem module is similar in its structure to the incident module – there is a difference in what is information is transferred from the problem to the new type and there is the addition of also being able to transfer to a ControlDefiency.

The "ProblemManagement.exp" export file consist of:

- GovernanceWorkFlow
 - Problem Managment
- HTMLDialogLayout
 - PROB-Creation
 - o PROB-Registration-Investigation
 - PROB-Handling
- HTMLQueryResultView
 - Problems
- HTMLTemplateDefinition
 - Problem

11.1 The governance workflow



State	Description
Registration	The problem gets registered
Investigation	The problems description can be elaborated
Handling	Handling of the problem with recommended and actual actions
[TYPE] (Transfer problem to correct type)	Based on the problem type an object of the corresponding type will be created where the description of the problem



Governance Action	(ShortDescription)already written will be transferred.
 Transfer to complaint Transfer to non-conformance Transfer to change request Transfer to accident Handling Transfer to Control defiency 	The problem will automatically close when the correct type is created with a link to the new object.

11.1.1 Transferring from problem to other template type

On the problem there will be a link to the new object in the field BreaksDownTo (MultiLink).

For all *except* Accident and ControlDeficiency the OriginatedBy, OriginatedDate and HasResponsible is transferred to the new object.

The Problems ShortDescription is transferred to:

Incident	Observation
Complaint	ShortDescription
NonConformance	ShortDescription
ChangeRequest	ShortDescription
Accident	Cause
ControlDeficiency	Observation



11.2 **Presentation of problems**

I have a problem with my computer					
ID	PROB-0005				
Name	I have a problem with my computer				
Priority:	1				
Short description	Problem problem problem				
Recommended by					
Recommended date					
Recommend solution					
Estimated resource requirement					
Recommend solution					
Executed by					
StartDate					
End date					
Resources spend					
Corrective action					
	ID Name Priority: Short description Recommended by Recommend solution Estimated resource requirement Recommend solution Executed by StartDate End date Resources spend				

Figure 40: HTMLDefinition

s rer	Button	Text	Tooltip		Role	Custom	Display Mode	Image	Command	
kplorer Settings	CustomCreate	Create	Create new probl	em		true	ToolbarAndContext.	Create.gif	Generic.Cre	eateInMemory
kplorer Parameters	🔲 rename	Rename	Rename selected	problem						
kolorer Filter	📧 delete	Delete	Delete selected p	roblem(s)						
ink										
be	<				1					
iate										
nance	Query Column	Column Header	Width	Filters	Filter Type	Sort/Filter by	Plain text \	ertical align	Wrap header	Wrap item
	SequenceID	Sequence ID				Value	false 1	ор	true	true
	🔲 Name	Name				Value	false 1	ор	true	true
	HasResponsible	Responsible				Value	false 1	op	true	true
	sys_CreatedBy	Created By				Value	false 1	ор	true	true
	sys_Created	Created Date				Value	false 1	op	true	true
	Status	Status				Value	false 1	ор	true	true
				Ш						

Figure 41: The QRV



12 Accident Module

The purpose of the accident module is to govern accidents, and in 6.3 the metamodel has also been extended to contain more information.

The "AccidentManagement.exp" export file consist of:

- GovernanceWorkFlow
 - o Accident Managment
- HTMLDialogLayout
 - ACC-Accident
 - ACC-SubAccidentDetails
 - ACC-SubActions
 - ACC-SubCauses
 - ACC-SubConsequencesAndRisk
 - ACC-SubDescribe
 - ACC-SubDocuments
 - ACC-SubInvolved
- HTMLQueryResultView
 - Accidents
- HTMLTemplateDefinition
 - o Accident

12.1 The accident metamodel extension

Accident : Invol	ved					
Injured person:				¥ [+	
Injured external person:						
Seniority of iniured person:		~				
Involved persons:	Name			Rev.	Туре	Modified
	<		Ш			>
Involved external persons:						^ ~
Witnesses:	Name			Rev.	Type	Modified
	<		Ш			>
External witnesses:						^
Hours of work:						

Name	Attribute	Description
Injured person	InjuredPerson	Who was the injured person – reference to the Person object (contains correct information with AD synchronization).
Injured external person	InjuredExternalPerson	Was the injured an external person – edit field for contact information



Seniority of injured person	SeniorityOfInjuredPerson	What is the seniority of the injured person
Involved persons	InvolvedPersons	Who were involved
Involved external persons	InvolvedExternalPersons	Where the external persons involved
Witnesses	Witnesses	Who witnessed the accident
External Witnesses	ExternalWitnesses	Did external persons witness the accident
Hours of work	HoursOfWork	When did the accident happen

Accident : Details		
Immediate Manager:	1	× +
Accident related to:		~
Accident details:	gfdfgdg	^ ~
Immediate actions:	gdfgddfgd	^
Recommendations to avoid the accident in		^
Category Accident category:		~
Sub category:		~
Absence:		~

Name	Attribute	Description
Immediate Manager	ImmediateManager	Who is the immediate manager
Accident related to	AccidentRelatedTo	What is the accident related to
Accident details	AccidentDetails	Details about the accident
Immediate actions	ImmediateActions	The immediate actions taken
Recommendations to avoid the accident in (the future)	RecommendationsToAvoid	How to avoid the accident in the future
Accident category	AccidentCategory	The overall category
Sub category	SubCategory	The subcategory
Absence	Absence	Was something absent



49 Accident : Causes			
Job related factors:			
Inadequate tools and equipme	ent:	Inadequate preventive measures:	~
Substandard housekeeping:		Improper storage:	
Lack of maintenance:		Lack of procedures or instructions:	
Engineering design:		Improper handling:	b
Other job related factors:			
Personal factors:			
Knowledge:	Skills or Capal	bility: Stress:	
Behaviour:	Motivation:		
Other personal Factors:			
Other factors:			
Leadership: V	Veather conditions:		
Root cause:			<

Name	Attribute	Description
Inadequate tools and equipment	InadequateTools	True/false
Inadequate preventive measures	InadequatePreventiveMeasures	True/false
Substandard housekeeping	SubstandardHousekeeping	True/false
Improper storage	ImproperStorage	True/false
Lack of maintenance	LackOfMaintenance	True/false
Lack of procedures or instructions	LackOfProcedures	True/false
Engineering design	EngeneeringDesign	True/false
Improper handling	ImproperHandling	True/false
Other job related factors	OtherJobRelatedFactors	Extend job related factors with custom
Knowledge	Knowledge	True/false
Skills or Capability	Skills	True/false
Stress	Stress	True/false
Behaviour	Behaviour	True/false
Motivation	Motivation	True/false
Other personal factors	OtherPersonalFactors	Extend personal related factors with custom
Leadership	Leadership	True/false
Weather conditions	WeatherConditions	What were the weather conditions when the accident happend
Root cause	RootCause	Description of the root cause for the accident



49 Accident : Consequences	
Consequence - safety - part:	
Safety part - other:	
Consequence - safety - severity:	×
Safety severity - other:	
Consequence - environment:	×
Environment - other:	
Consequence - material:	~
Material - other:	
Likelihood of recurrence (if no action taken):	~ ~
Severity assessment (if no action taken):	v

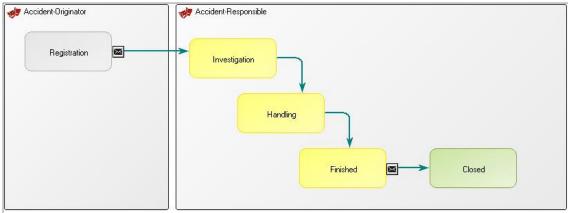
Name	Attribute	Description
Consequence – safety – part	ConsequenceSafetyPart	What is the consequence on the safety part
Safety part – other	SafetyPartOther	Custom edit field for additional consequence on the safety part
Consequence – safety – severity	ConsequenceSafetySeverity	What is the consequence of the severity of the safety
Safety severity – other	SafetySeverityOther	Custom edit field for additional consequence on the severity
Consequence – environment	ConsequenceEnvironment	
Enviroment - other		
Consequence – material	ConsequenceMaterial	What are the material consequences
Material – other	MaterialOther	Custom edit field for additional material consequences
Likelihood of recurrence (if no action taken)	LikelihoodOfRecurrence	What is the likelihood of the accident happening again if no action is taken
Severity of recurrence (if no action taken)	Severity	What is the severity of the accident happening again if no action is taken



Accident : Incident				
Corrective actions:				
Name	Rev.	Туре	Modified	
<		Ш		>
Preventive actions:				
Name	Rev.	Туре	Modified	
<		III		>

Name	Attribute	Description
Corrective actions	CorrectiveActions	Related corrective actions objects
Preventive actions	PreventiveActions	Related preventive actions objects

12.2 The governance workflow



The accident goes through four stages before being closed. In registration and investigation the initial information about the accident is registered and investigated.

In handling information about the accident is further elaborated and possible corrective and preventive actions are registered. The accident is finalized and in the end closed.

After registration a notification is sent to the responsible for investigating the accident. After the accident is closed the originator (the person who registered the accident) get an email about the accident being closed.



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