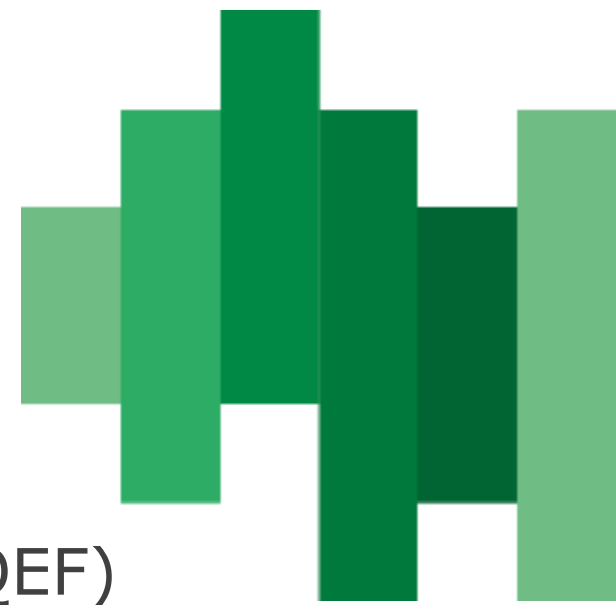


# Repository Administrator

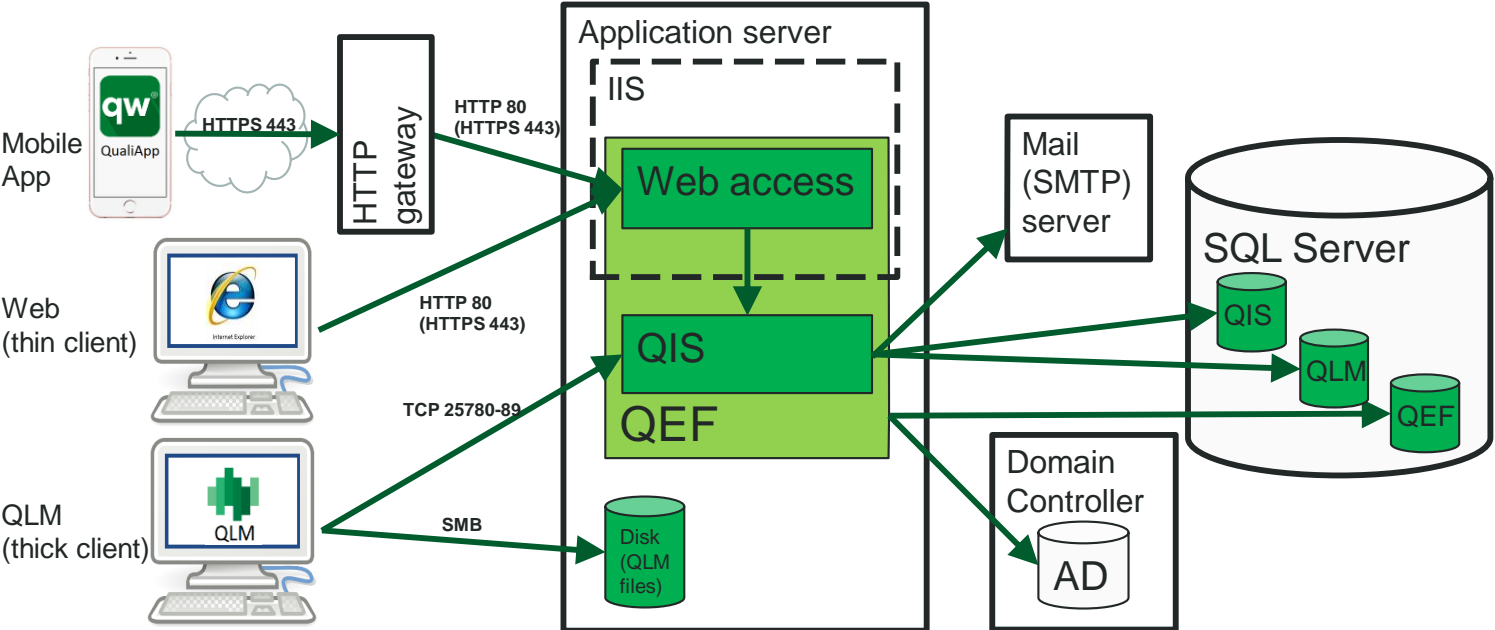


QualiWare Execution Framework (QEF)  
Repository Administrator (RA)

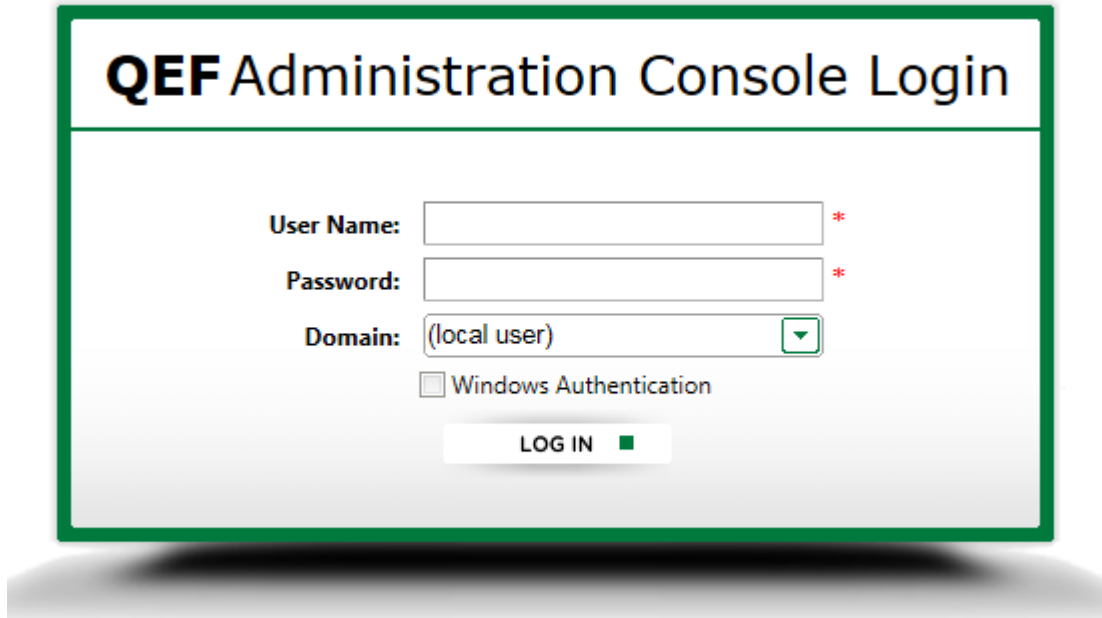
# What are you going to learn:

- Administration (QualiWare Execution Framework)
  - Modules
  - Data sources
  - Access Log transaction codes
  - Active Directory Synchronization
  - Users and groups
  - Sessions
  - Licenses
  - Logging
  - Mail setup
- Setting up a repository (Repository Administrator)
  - Access
  - Create a new repository
  - General setup
  - Configurations
  - Roles
  - Permissions
  - Links
  - QCL Engine Manager
  - Addons
  - Service operations
  - Object reservations

# Architecture



# Qualiware Execution Framework

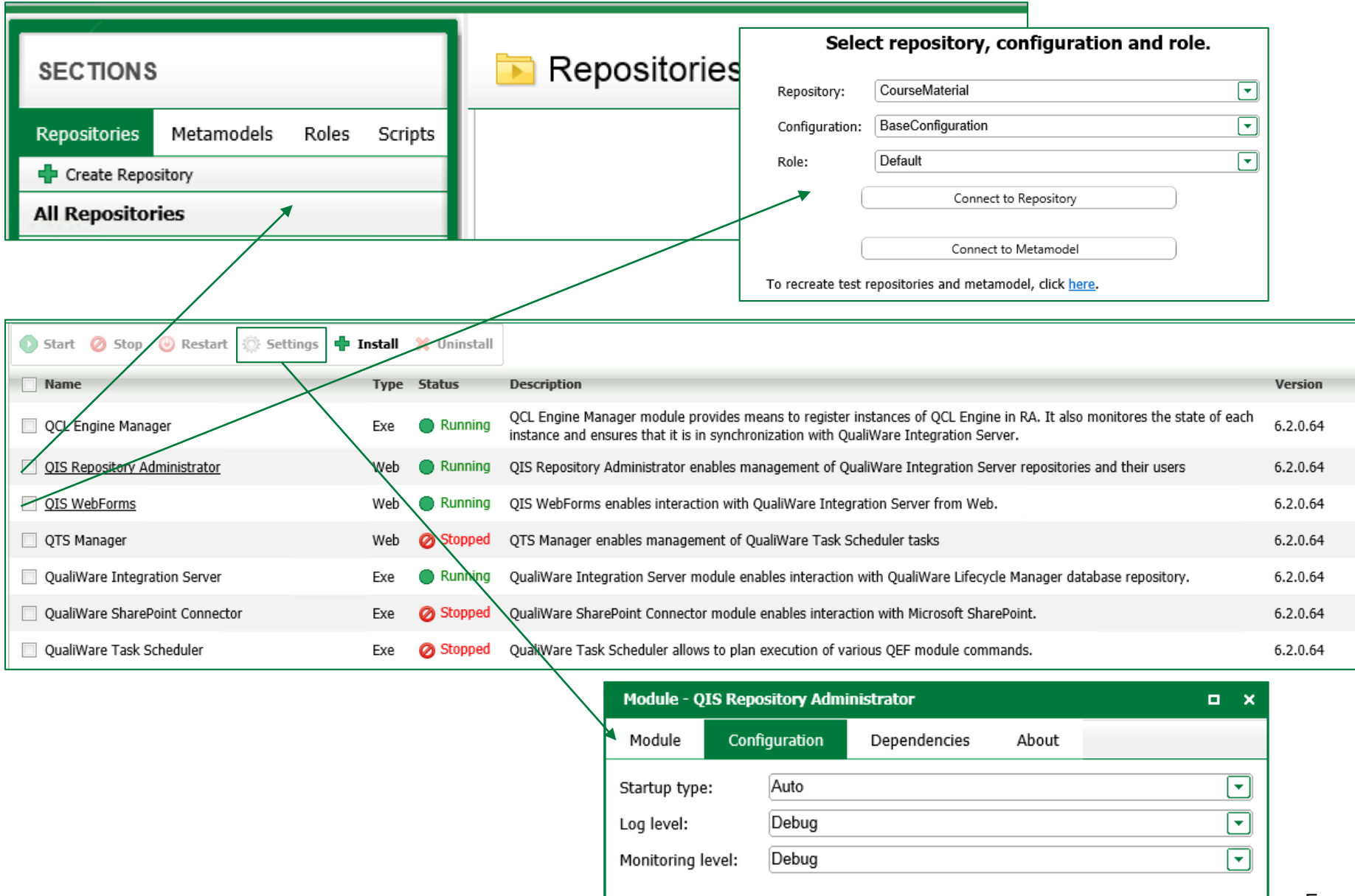


The screenshot shows a login form titled "QEF Administration Console Login". It contains three input fields: "User Name:" with a red asterisk, "Password:" with a red asterisk, and "Domain:" with a dropdown menu showing "(local user)". Below the domain field is a checkbox labeled "Windows Authentication". At the bottom center is a "LOG IN" button with a green square icon.

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[http://\[SERVERNAME\]/qef/console/](http://[SERVERNAME]/qef/console/)

# Administration: Modules



The screenshot displays the QualiWare Administration interface. The top-left pane shows the 'SECTIONS' menu with 'Repositories' selected. The top-right pane shows the 'Repositories' configuration dialog, which includes dropdowns for 'Repository' (CourseMaterial), 'Configuration' (BaseConfiguration), and 'Role' (Default), along with 'Connect to Repository' and 'Connect to Metamodel' buttons. A link is provided to recreate test repositories and metamodel.

The middle pane shows a list of modules with their status. The 'QIS Repository Administrator' module is highlighted, and its 'Settings' button is selected. The bottom-right pane shows the 'Module - QIS Repository Administrator' configuration window, which includes tabs for 'Module', 'Configuration', 'Dependencies', and 'About'. The 'Configuration' tab is active, showing settings for 'Startup type' (Auto), 'Log level' (Debug), and 'Monitoring level' (Debug).

Name	Type	Status	Description	Version
<input type="checkbox"/> QCL Engine Manager	Exe	Running	QCL Engine Manager module provides means to register instances of QCL Engine in RA. It also monitors the state of each instance and ensures that it is in synchronization with QualiWare Integration Server.	6.2.0.64
<input checked="" type="checkbox"/> <u>QIS Repository Administrator</u>	Web	Running	QIS Repository Administrator enables management of QualiWare Integration Server repositories and their users	6.2.0.64
<input checked="" type="checkbox"/> <u>QIS WebForms</u>	Web	Running	QIS WebForms enables interaction with QualiWare Integration Server from Web.	6.2.0.64
<input type="checkbox"/> QTS Manager	Web	Stopped	QTS Manager enables management of QualiWare Task Scheduler tasks	6.2.0.64
<input type="checkbox"/> QualiWare Integration Server	Exe	Running	QualiWare Integration Server module enables interaction with QualiWare Lifecycle Manager database repository.	6.2.0.64
<input type="checkbox"/> QualiWare SharePoint Connector	Exe	Stopped	QualiWare SharePoint Connector module enables interaction with Microsoft SharePoint.	6.2.0.64
<input type="checkbox"/> QualiWare Task Scheduler	Exe	Stopped	QualiWare Task Scheduler allows to plan execution of various QEF module commands.	6.2.0.64

Module	Configuration	Dependencies	About
Startup type:	Auto		
Log level:	Debug		
Monitoring level:	Debug		

# Administration: Modules

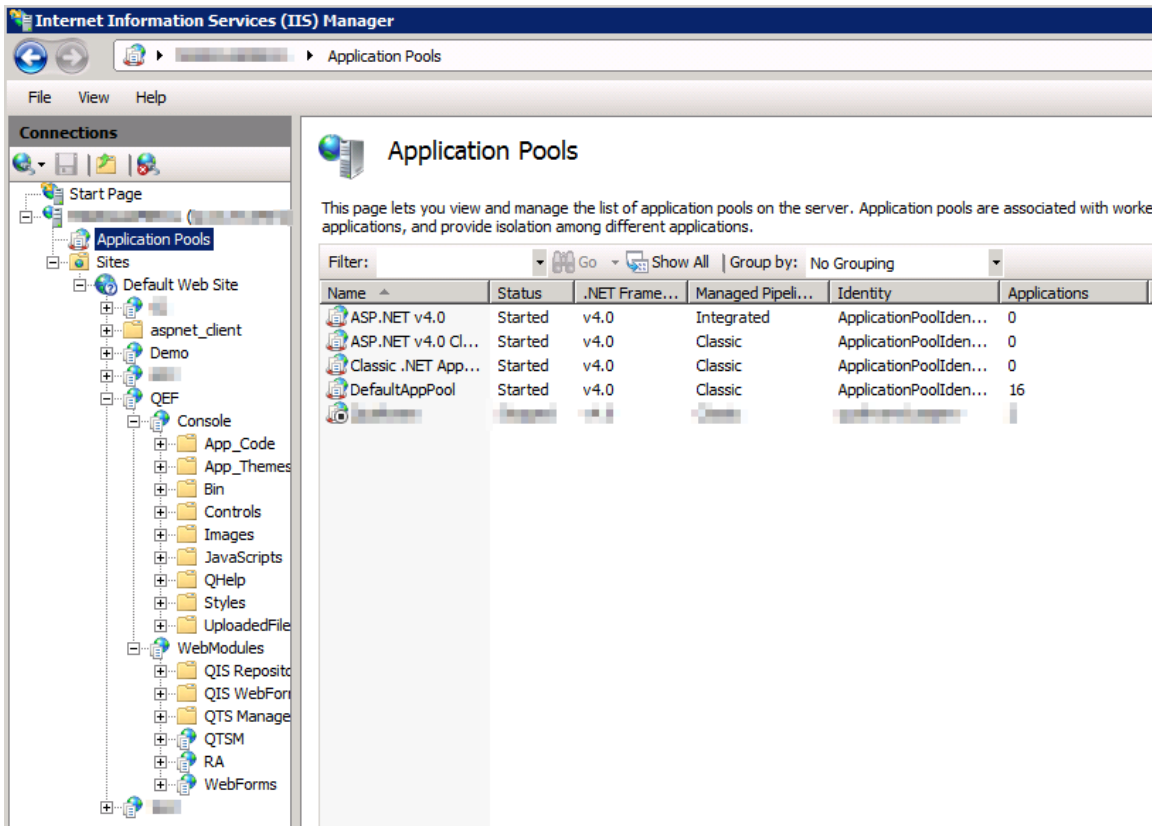


Some modules run as processes...

Image Name	PID	User Name	CPU	Memory (Private ...)	Command Line
Qdc.Module.exe	13324	SYSTEM	00	7.088 K	...
Qef.exe	13244	SYSTEM	00	32.088 K	...
QHost.exe	15452	SYSTEM	00	732 K	...
Qis.Module.exe	13500	SYSTEM	00	44.592 K	...
qwc32.exe *32	9740	SYSTEM	00	80.608 K	...

# Administration: Modules

... Others run in Internet Information Services (IIS)

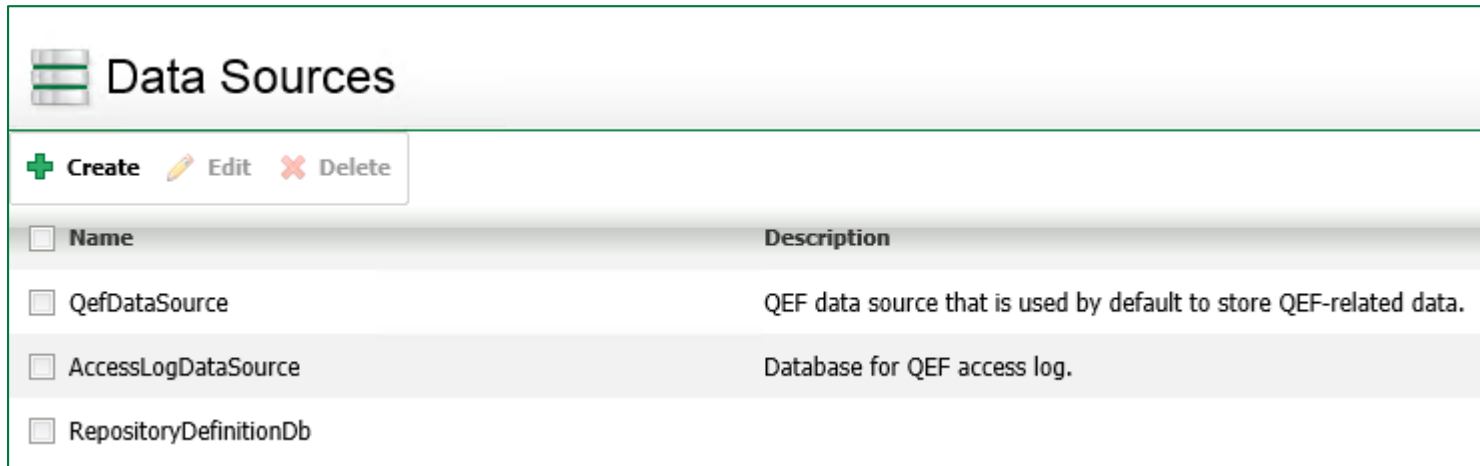


The screenshot shows the Internet Information Services (IIS) Manager interface. The left pane displays the 'Connections' tree with 'Application Pools' selected under the 'Default Web Site'. The main pane shows the 'Application Pools' configuration page, which includes a table listing the application pools on the server.

Name	Status	.NET Frame...	Managed Pipeli...	Identity	Applications
ASP.NET v4.0	Started	v4.0	Integrated	ApplicationPoolIden...	0
ASP.NET v4.0 Cl...	Started	v4.0	Classic	ApplicationPoolIden...	0
Classic .NET App...	Started	v4.0	Classic	ApplicationPoolIden...	0
DefaultAppPool	Started	v4.0	Classic	ApplicationPoolIden...	16

# Administration: Data sources

- QefDataSource database connectionstring is default QEF
- AccessLogDatasource database connectionstring is automatically set
  - It is used for logging clicks on the website (front-end) and qlm (back-end)
  - It is enabled for each repository
- RepositoryDefinitionDb is the connectionstring to the QIS database

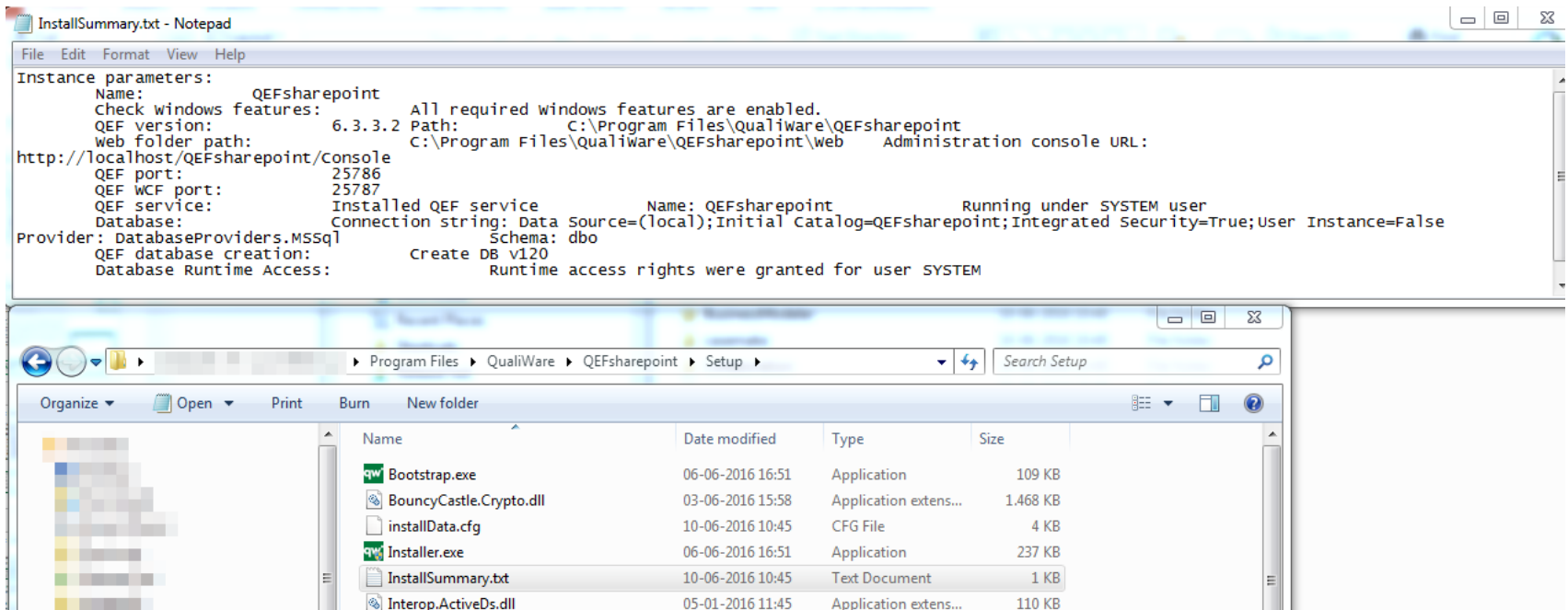


<input type="checkbox"/> Name	Description
<input type="checkbox"/> QefDataSource	QEF data source that is used by default to store QEF-related data.
<input type="checkbox"/> AccessLogDataSource	Database for QEF access log.
<input type="checkbox"/> RepositoryDefinitionDb	



# Install Summary

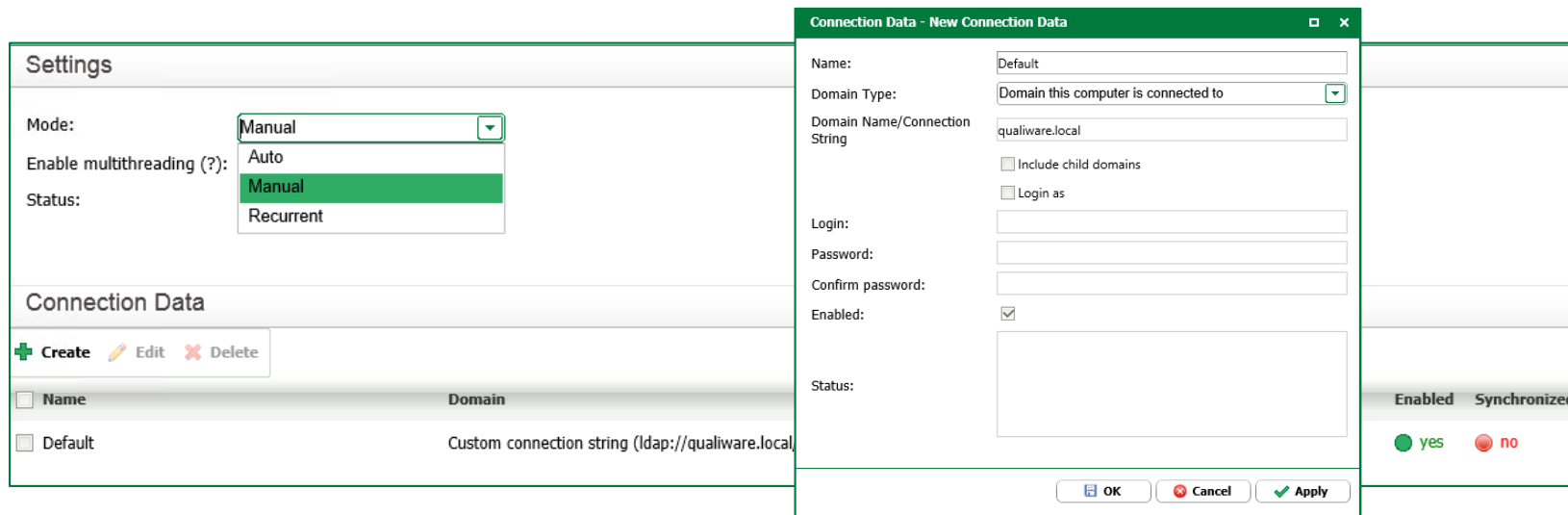
When QEF is initially installed an install summary is placed in QEF's setup folder.



This can be used to inspect installation path, QEF version, ports and SQL data sources

# Administration: Active Directory Synchronization

- You can setup as many AD connections as you want
- Modes of synchronization
  - Auto: It will automatically update users and groups
  - Manual: An update button will appear
  - Recurrent: Specific day(s) and a specific time for updating users and groups are set
- Enable multithreading could make the synchronization faster if the sql server is powerful enough and is not completely busy.
- Create 'Connection Data'
  - Domain Type: current domain either user or computers and custom
  - Domain name/connection: is automatically set if current user/computer domain is used. Otherwise you need to write the ldap string
    - Ldap example: ldap://qualiware.local/OU=QualiWare,DC=qualiware,DC=local
  - Include child domains: enabled/disabled
  - Login as: if there are some security measures that requires a login in order to get access to the AD

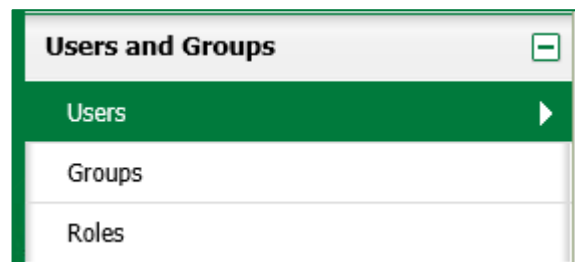


The screenshot displays the 'Settings' window and a 'Connection Data - New Connection Data' dialog box. The 'Settings' window has a 'Mode' dropdown set to 'Manual', 'Enable multithreading (?)' set to 'Auto', and 'Status' set to 'Manual'. The 'Connection Data' window shows fields for Name (Default), Domain Type (Domain this computer is connected to), Domain Name/Connection String (qualiware.local), Login, Password, Confirm password, and Enabled (checked). At the bottom right, there are 'Enabled' and 'Synchronized' status indicators with 'yes' and 'no' options.

Name	Domain
Default	Custom connection string (ldap://qualiware.local)

# Administration: Users and Groups

- Users: contains all local and AD users
- Groups: contains all local and AD groups
- Roles: contains all predefined QEF roles (you will not need to change those)



# Administration: Sessions



- Here you can see who is logged in, with which license and where (Client ID)
- You can kill a users session or logout the user
  - Killing a session will free all "locked" repository objects

<input type="checkbox"/> Login	Full Name	Computer Name	Started	Last Activity	License Type	Client ID
<input type="checkbox"/> Admin	QualiWare Administrator	Dev-Support.qualiware.local	07-07-2015 05:53:57	07-07-2015 11:37:45	QEI (Concurrent)	QLM
<input type="checkbox"/> Admin	QualiWare Administrator	Dev-Support.qualiware.local	07-07-2015 11:37:42	07-07-2015 11:37:42	RA (Concurrent)	RA
<input type="checkbox"/> Admin	QualiWare Administrator	Dev-Support.qualiware.local	07-07-2015 11:36:52	07-07-2015 11:37:47		AdminConsole
<input type="checkbox"/> Admin	QualiWare Administrator	Dev-Support.qualiware.local	07-07-2015 11:34:21	07-07-2015 11:37:47	RA (Concurrent), CAI (Concurrent)	WebForms

# Administration: Licenses



- Installation code is used for creating licenses
  - The return will be an xml structure
- Install license either from 1) copying the xml or 2) by selecting the xml file

Licenses											
License type: All											
Installation Code   + Install   ↻ Upgrade   ✖ Uninstall   ✎ Edit   ↓ Download   ↑ Upload   ↓ Download CSV											
<input type="checkbox"/>	Name	Type	Mode	Limit	Assigned count	Local count	Created	Expires	Valid	Trial	Checked out
<input type="checkbox"/>	RA	Concurrent	read-write	2 sessions	none	none	09-10-2014	Never	● yes	● no	● no
<input type="checkbox"/>	QEI	Concurrent	read-write	10 sessions	none	none	09-10-2014	Never	● yes	● no	● no
<input type="checkbox"/>	QLM	Concurrent	read-write	5 sessions	none	none	09-10-2014	Never	● yes	● no	● no
<input type="checkbox"/>	QIS client	Concurrent	read-write	500 sessions	none	none	09-10-2014	Never	● yes	● no	● no
<input type="checkbox"/>	QEP	Concurrent	read-write	500 sessions	none	none	09-10-2014	Never	● yes	● no	● no
<input type="checkbox"/>	CAI	Concurrent	read-write	500 sessions	none	none	09-10-2014	Never	● yes	● no	● no

# Administration: Licenses



## Consensus (Implementation via the web)

### QualiWare for Content Editing

QualiWare Web Modeler (QWM)

QualiWare Web Editor (QWE)

### QualiWare for Compliance

Complaint

Contract

Incident

Supplier

Asset

QualiWare Health Care (QHC)

Compliance Audit & Improvement (CAI)

### QualiWare for Collaboration

QualiWare Enterprise Engagement (QEE)

QualiWare Social Behavior Warehouse (SBW)

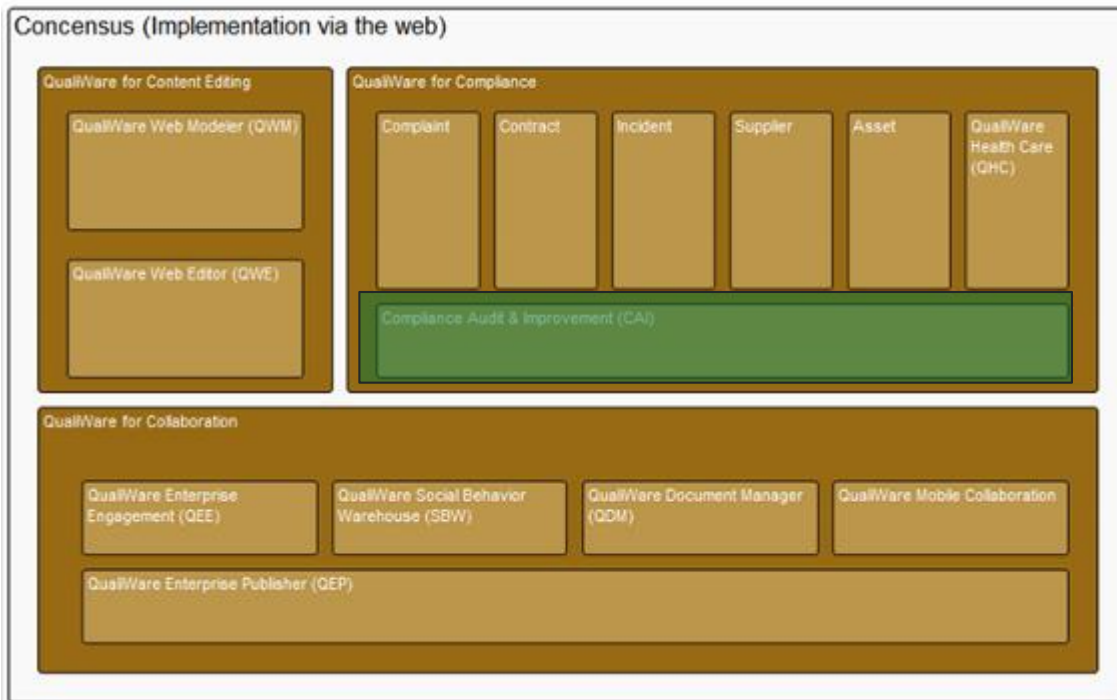
QualiWare Document Manager (QDM)

QualiWare Mobile Collaboration

QualiWare Enterprise Publisher (QEP)

# Licenses: CAI

Enables web-based editing of AuditProgram, QualityAudits, Non-Conformances, CorrectiveActions and PreventiveActions

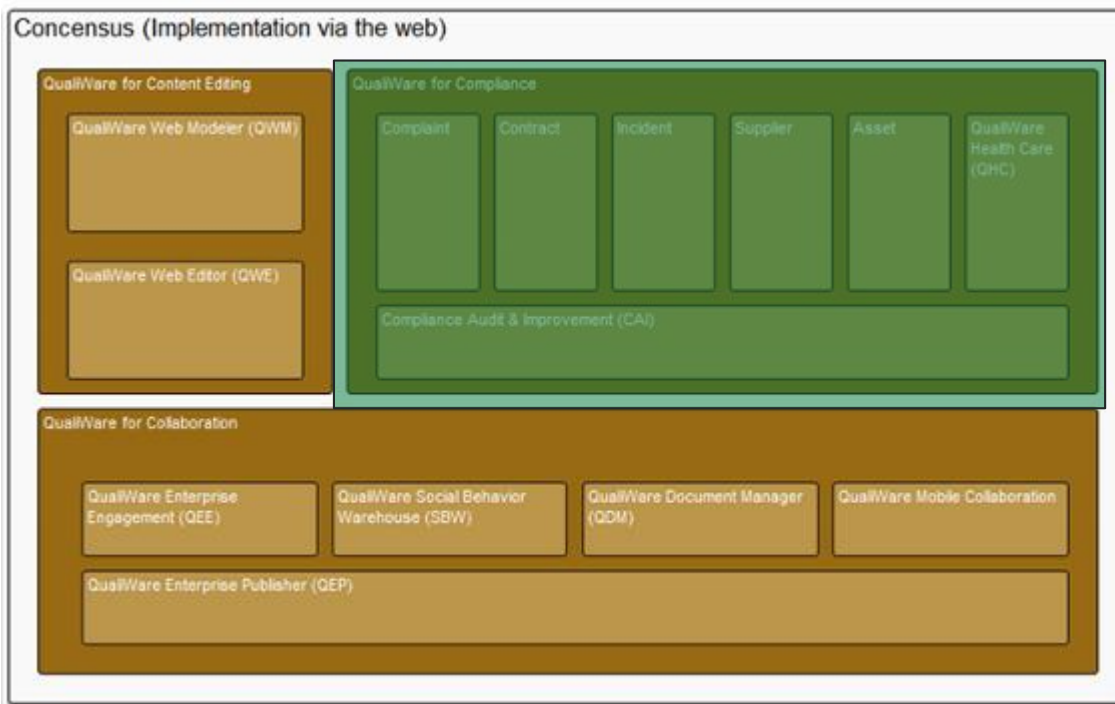


Templates:

AuditProgram CorrectiveAction  
NonConformance PreventiveAction  
QualityAudit

# License: Compliance

This bundle includes several compliance related modules, each with a specific purpose. All modules are dependent on the audit, non-conformance and corrective action features included in the CAI module. If the customer buys CAI plus one additional module from this bundle for a user, the remaining modules are free of charge for this user.



## Templates:

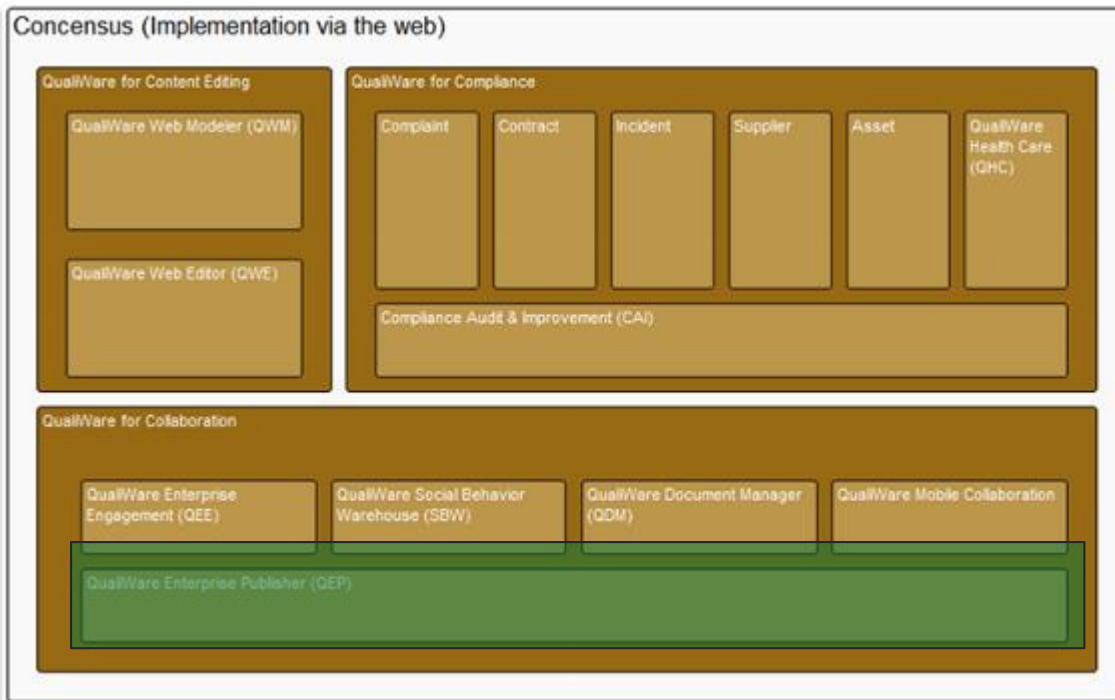
Accident, AppraisalInterview, Asset, AssetGroup, CheckItem, CheckList, CheckResult, Complaint, Competence, CompetenceLevel, Contract, CourseParticipation, CurriculumVitae, Department, Education, EducationPlan, HealthCareAnalysis, HealthCareComponent, Incident, ManualLog, Person, StandardOperatingProcedure, Supplier, ValidationReport



# License: QEP



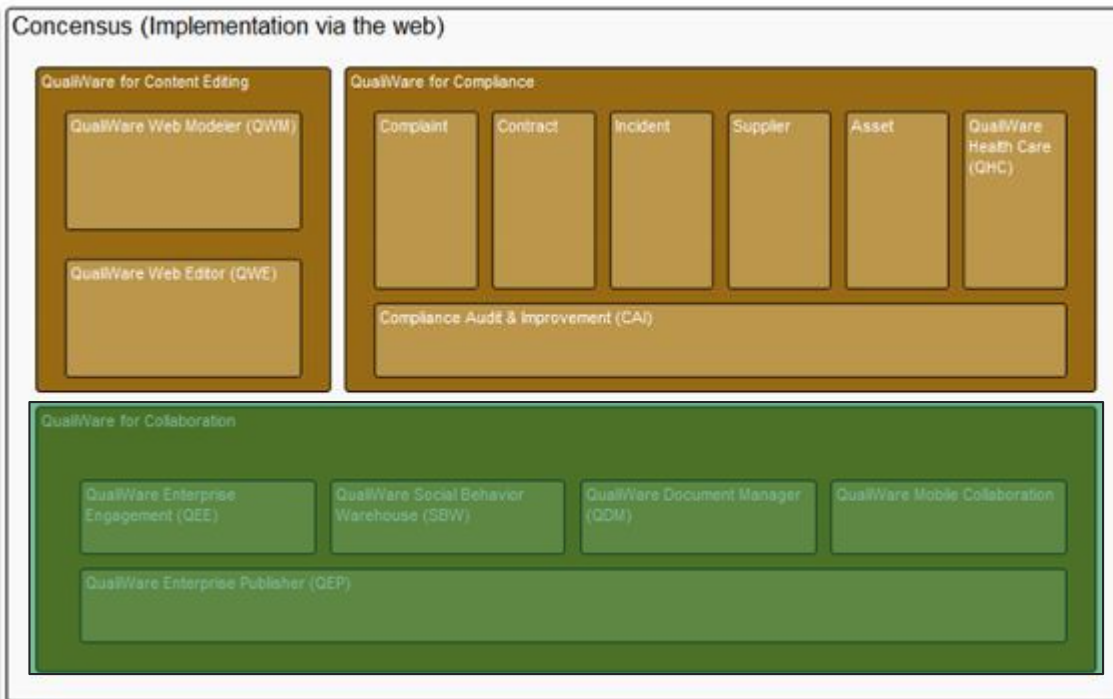
This bundle includes four modules that allows the end-user to participate in the enterprise wide governance and collaboration around the maintenance and improvement of corporate knowledge. It also includes a free mobile app that allows the end-user to perform governance tasks as well as registering change requests and problems from a smart phone or tablet. If the customer buys QEP plus one additional module from this bundle for a user, the remaining modules are free of charge for this user.



Read Access to All Templates

# License: Collaboration

This bundle includes four modules that allows the end-user to participate in the enterprise wide governance and collaboration around the maintenance and improvement of corporate knowledge. It also includes a free mobile app that allows the end-user to perform governance tasks as well as registering change requests and problems from a smart phone or tablet. If the customer buys QEP plus one additional module from this bundle for a user, the remaining modules are free of charge for this user.



## Templates (Write):

Accident, AppraisalInterview, Asset, AssetGroup, CheckItem, CheckList, CheckResult, Complaint, Competence, CompetenceLevel, Contract, CourseParticipation, CurriculumVitae, Department, Education, EducationPlan, HealthCareAnalysis, HealthCareComponent, Incident, ManualLog, Person, StandardOperatingProcedure, Supplier, ValidationReport

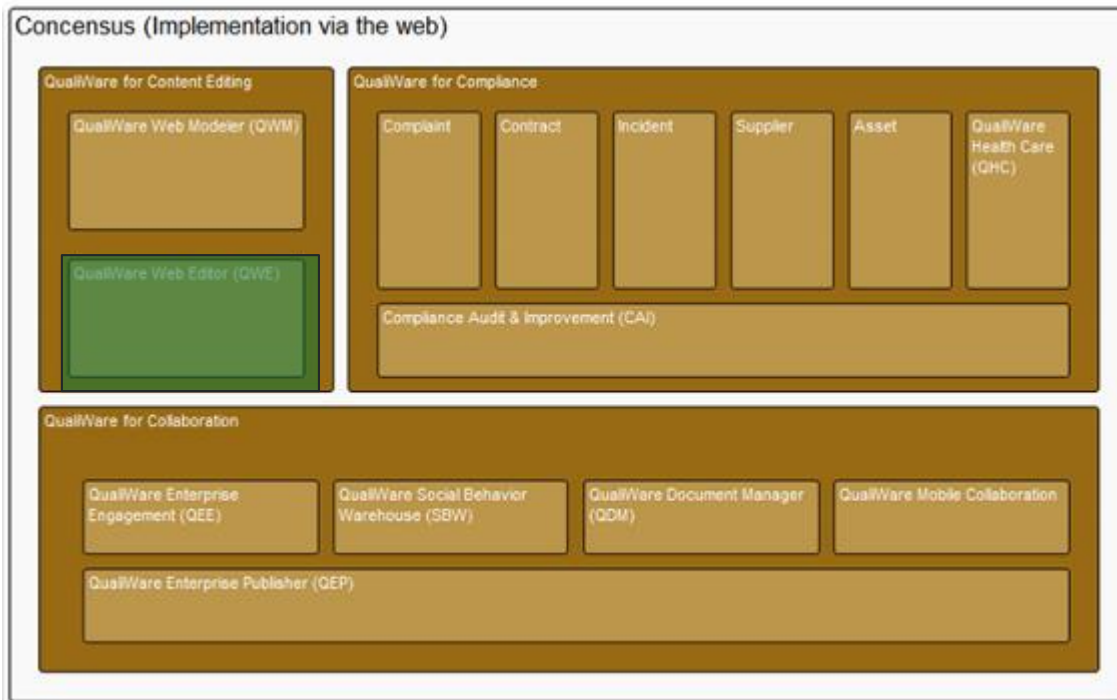
## Actions:

Acknowledge, Governance Transitions (Approve, new Revision), Commenting

# License: QWE

Allows end-users to interact with content in repository from web-forms or via web-services.

(QIS License)

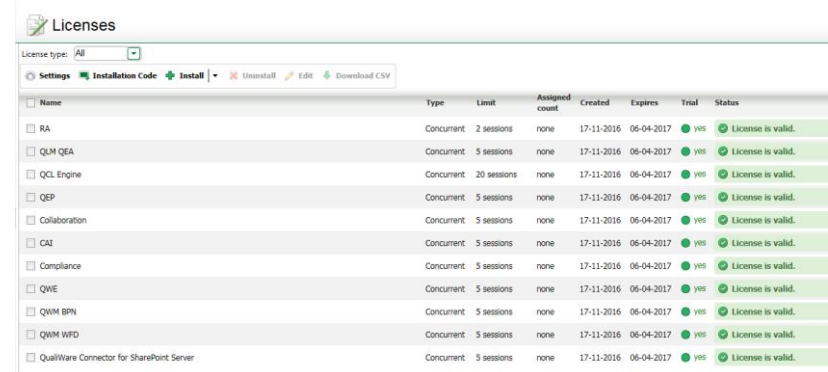


Templates (Write):  
Everything not found in Collaboration + Compliance

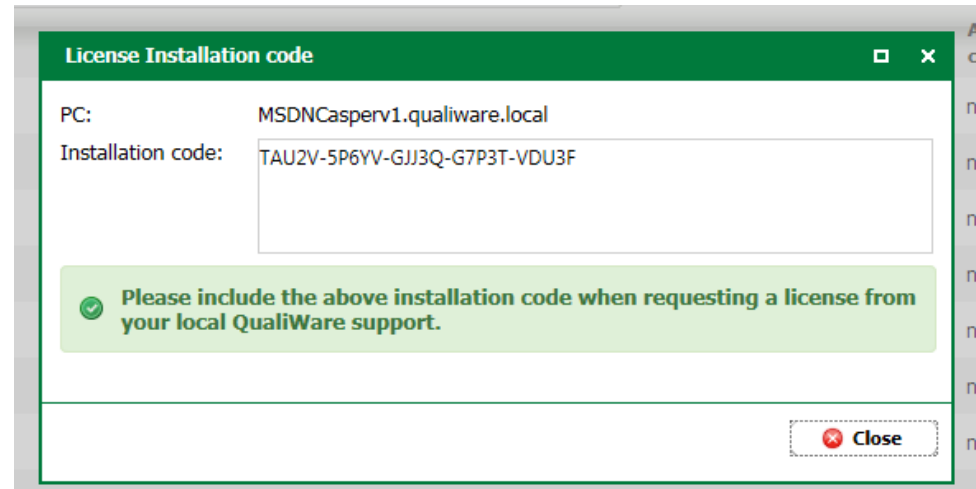
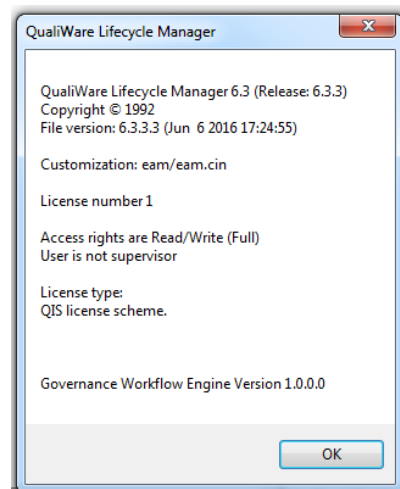
- Licenses have a server "hardware tolerance".
- If the "hardware tolerance" rules are violated the licenses will become disabled.
- Top 3 hardware changes that might cause license to stop working:
  - 1) Changes to RAM
  - 2) Changes to CPUs
  - 3) Changes that are harddrive related

# How to request new licenses

- Contact: [license@qualiware.com](mailto:license@qualiware.com)
- Include the following information:
  - Name / Company
  - QEF Licenses
  - Installation Code
  - QLM Version

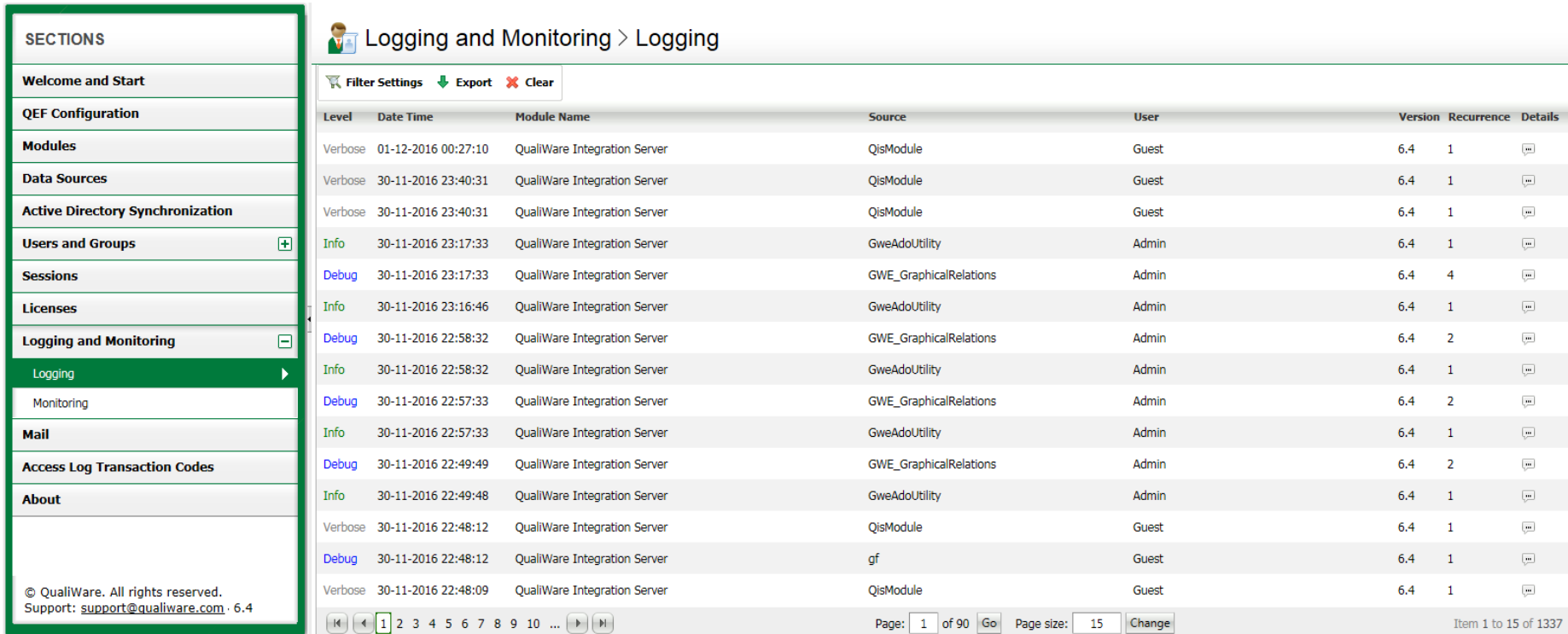


Name	Type	Limit	Assigned count	Created	Expires	Trial	Status
<input type="checkbox"/> RA	Concurrent	2 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> QLM QEA	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> QCL Engine	Concurrent	20 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> QEP	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> Collaboration	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> CAI	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> Compliance	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> QWE	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> QWM BPN	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> QWM WFD	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.
<input type="checkbox"/> QualiWare Connector for SharePoint Server	Concurrent	5 sessions	none	17-11-2016	06-04-2017	yes	License is valid.



# Administration: Logging

- If you get an error and need support, you can export the log and send it to QualiWareSupport



SECTION S

- Welcome and Start
- QEF Configuration
- Modules
- Data Sources
- Active Directory Synchronization
- Users and Groups
- Sessions
- Licenses
- Logging and Monitoring
- Monitoring
- Mail
- Access Log Transaction Codes
- About

Logging and Monitoring > Logging

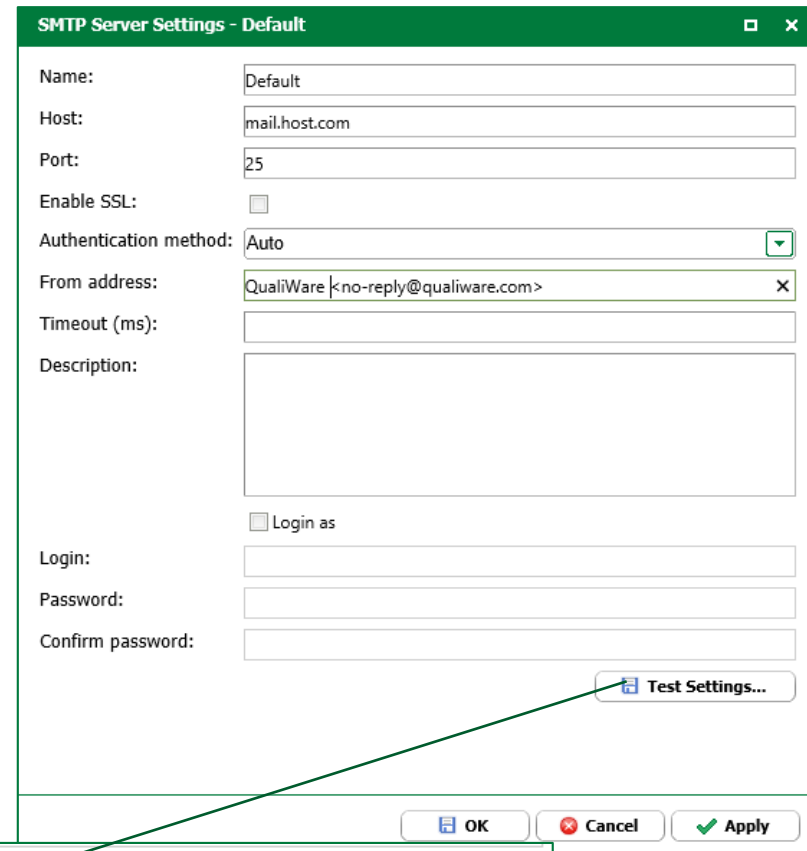
Filter Settings Export Clear

Level	Date Time	Module Name	Source	User	Version	Recurrence	Details
Verbose	01-12-2016 00:27:10	QualiWare Integration Server	QisModule	Guest	6.4	1	
Verbose	30-11-2016 23:40:31	QualiWare Integration Server	QisModule	Guest	6.4	1	
Verbose	30-11-2016 23:40:31	QualiWare Integration Server	QisModule	Guest	6.4	1	
Info	30-11-2016 23:17:33	QualiWare Integration Server	GweAdoUtility	Admin	6.4	1	
Debug	30-11-2016 23:17:33	QualiWare Integration Server	GWE_GraphicalRelations	Admin	6.4	4	
Info	30-11-2016 23:16:46	QualiWare Integration Server	GweAdoUtility	Admin	6.4	1	
Debug	30-11-2016 22:58:32	QualiWare Integration Server	GWE_GraphicalRelations	Admin	6.4	2	
Info	30-11-2016 22:58:32	QualiWare Integration Server	GweAdoUtility	Admin	6.4	1	
Debug	30-11-2016 22:57:33	QualiWare Integration Server	GWE_GraphicalRelations	Admin	6.4	2	
Info	30-11-2016 22:57:33	QualiWare Integration Server	GweAdoUtility	Admin	6.4	1	
Debug	30-11-2016 22:49:49	QualiWare Integration Server	GWE_GraphicalRelations	Admin	6.4	2	
Info	30-11-2016 22:49:48	QualiWare Integration Server	GweAdoUtility	Admin	6.4	1	
Verbose	30-11-2016 22:48:12	QualiWare Integration Server	QisModule	Guest	6.4	1	
Debug	30-11-2016 22:48:12	QualiWare Integration Server	gf	Guest	6.4	1	
Verbose	30-11-2016 22:48:09	QualiWare Integration Server	QisModule	Guest	6.4	1	

Page: 1 of 90 Go Page size: 15 Change Item 1 to 15 of 1337

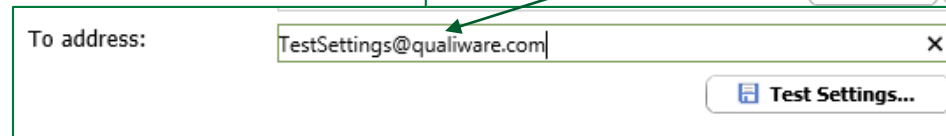
# Administration: Mail setup

- Name: recognizable name of the mail server (important if several mail setups are created)
- Host: what is the host of the mail server
- Port: which port can be used for sending mails
- Authentication method: is there need for special authentication (negotiate, ntlm, digest, login)
- Login as: Is there a need for an account to login to get acces to the mail server
- Test settings: 'to address' is made visible and a standard email is sent



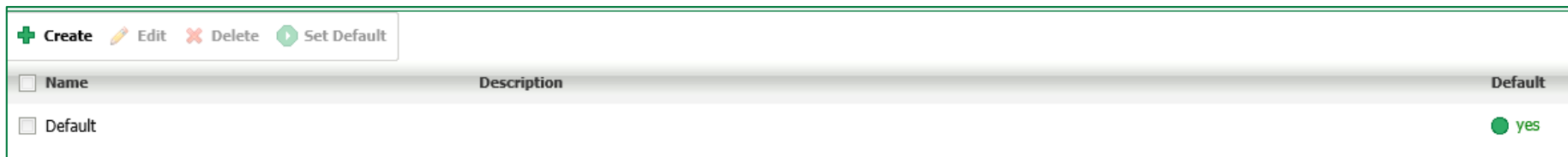
The screenshot shows the 'SMTP Server Settings - Default' dialog box. It contains the following fields and controls:

- Name: Default
- Host: mail.host.com
- Port: 25
- Enable SSL:
- Authentication method: Auto (dropdown menu)
- From address: QualiWare <no-reply@qualiware.com> (with a close button)
- Timeout (ms):
- Description:
- Login as
- Login:
- Password:
- Confirm password:
- Test Settings... button
- OK, Cancel, and Apply buttons at the bottom.



The screenshot shows a 'To address' dialog box with the following content:

- To address: TestSettings@qualiware.com (with a close button)
- Test Settings... button



<input type="checkbox"/> Name	Description	Default
<input type="checkbox"/> Default		<input checked="" type="radio"/> yes

# Repositories

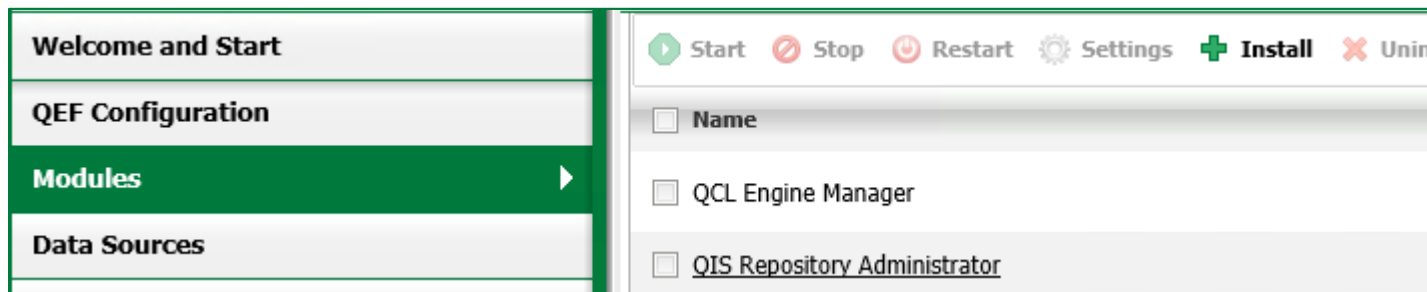


# What you are going to learn:

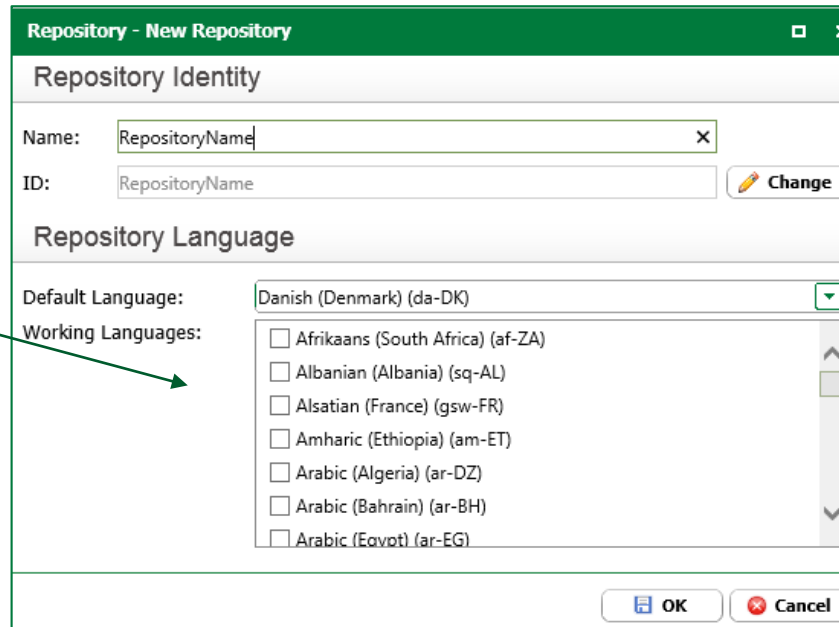
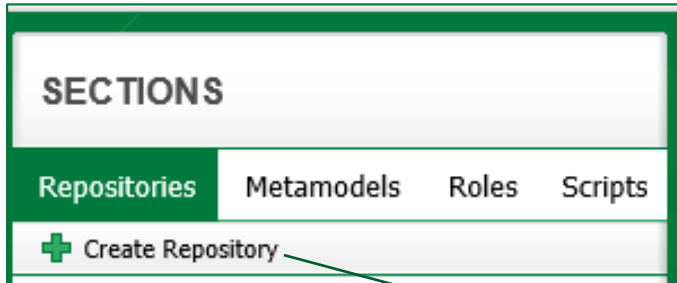
- Administration (QualiWare Execution Framework)
  - Modules
  - Data sources
  - Access Log transaction codes
  - Active Directory Synchronization
  - Users and groups
  - Sessions
  - Licenses
  - Logging
  - Mail setup
- Setting up a repository (Repository Administrator)
  - Access
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  - Configurations
  - Roles
  - Permissions
  - Links
  - QCL Engine Manager
  - Addons
  - Service operations
  - Object reservations

# RA: Access

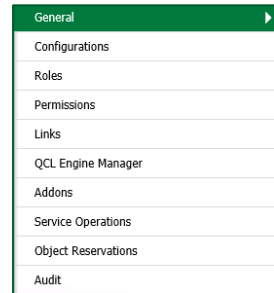
1. `http://[SERVERNAME]/QEF/WebModules/RA/Default.aspx`
2. `http://[SERVERNAME]\qef\console` -> find the module "QIS Repository Administrator"



# RA: Create a new Repository



A screenshot of a dialog box titled 'Repository - New Repository'. It has a green header bar. The dialog is divided into sections: 'Repository Identity' and 'Repository Language'. Under 'Repository Identity', there are two text input fields: 'Name:' containing 'RepositoryName' and 'ID:' containing 'RepositoryName'. There is a 'Change' button with a pencil icon next to the ID field. Under 'Repository Language', there is a 'Default Language:' dropdown menu set to 'Danish (Denmark) (da-DK)'. Below that is a 'Working Languages:' section with a list of languages and their codes, each with an unchecked checkbox: Afrikaans (South Africa) (af-ZA), Albanian (Albania) (sq-AL), Alsatian (France) (gsw-FR), Amharic (Ethiopia) (am-ET), Arabic (Algeria) (ar-DZ), Arabic (Bahrain) (ar-BH), and Arabic (Egypt) (ar-EG). At the bottom right, there are 'OK' and 'Cancel' buttons.

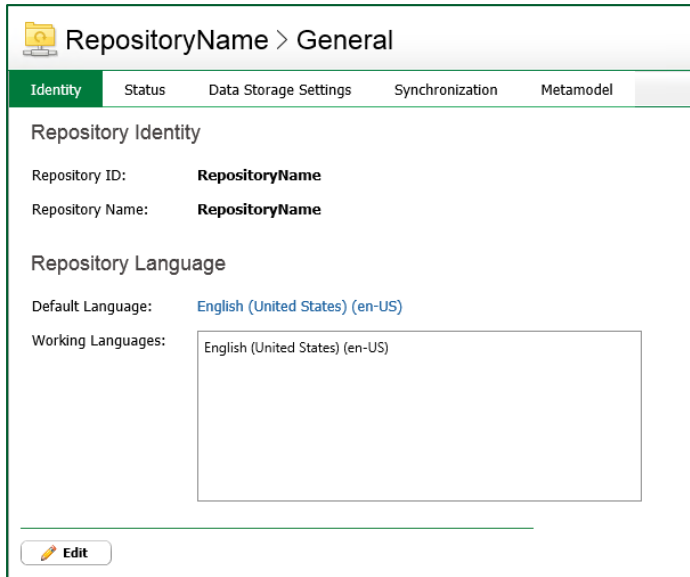


- You can create as many repositories as needed

# RA: General setup

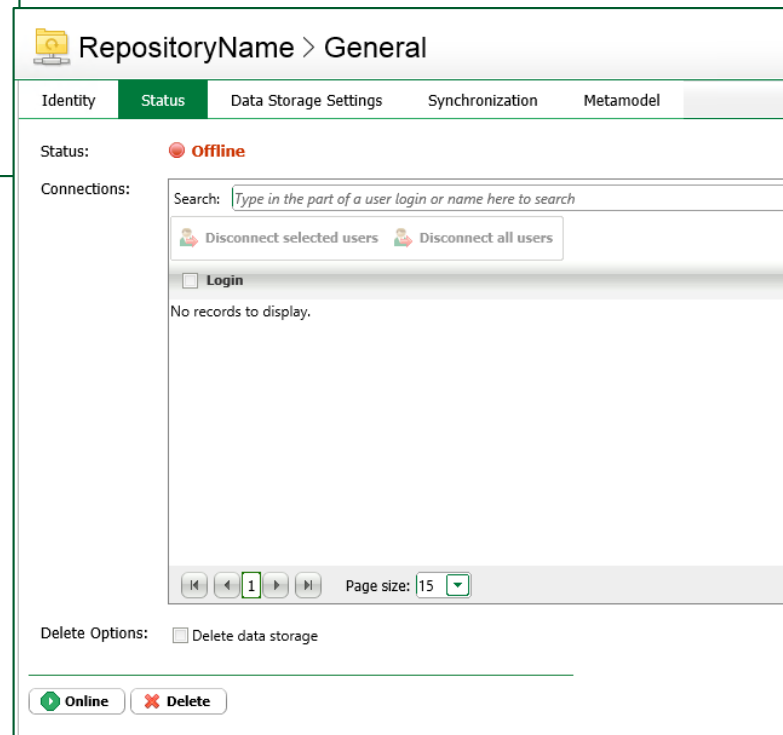
Enabling positive change

General
Configurations
Roles
Permissions
Links
QCL Engine Manager
Addons
Service Operations
Object Reservations
Audit

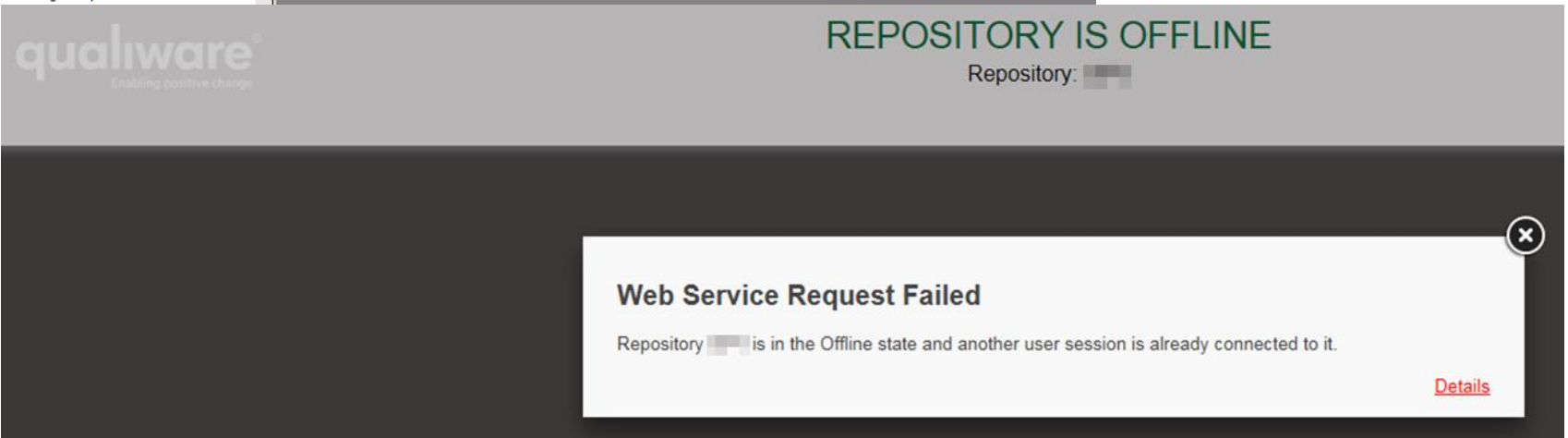
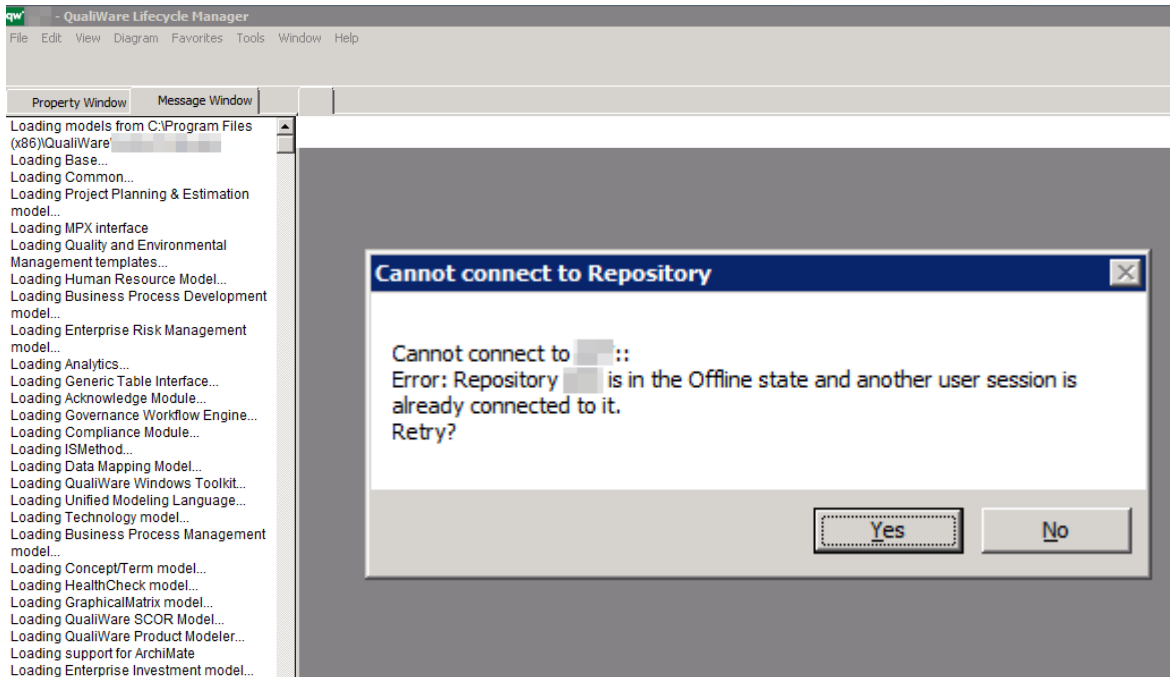


- You can have one default language, but several working languages.

- You can set the repository offline which means that only one user can be connected to it
- Here you will also see who is connected to the repository right now



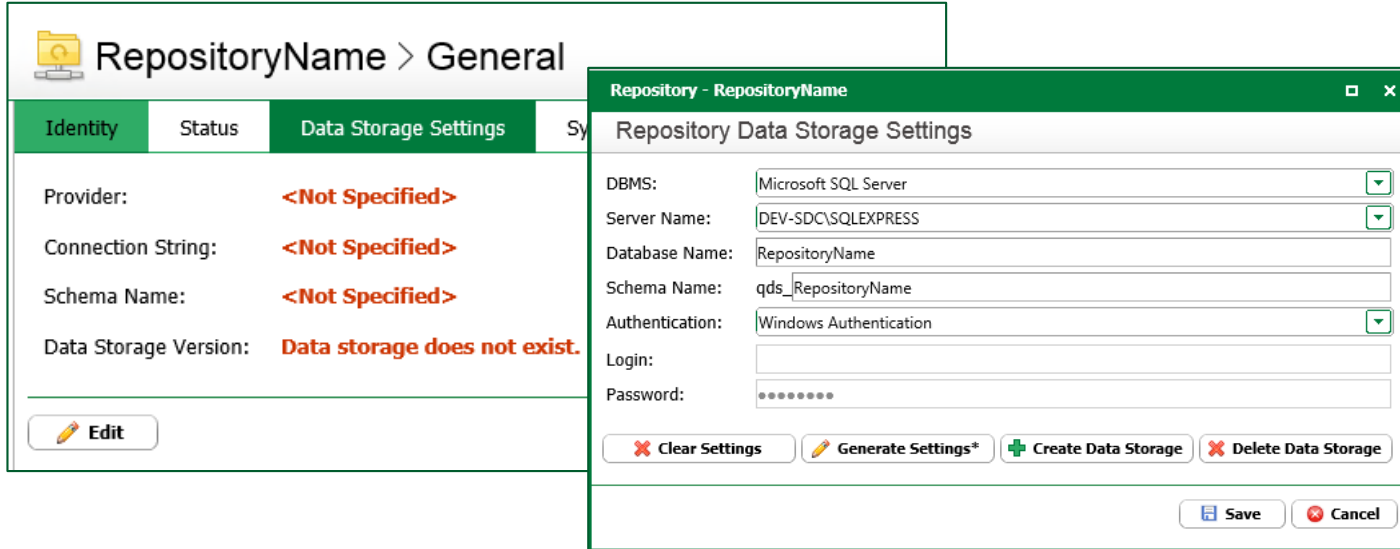
# An offline repository...



# RA: General setup cont.


Enabling positive change

General
Configurations
Roles
Permissions
Links
QCL Engine Manager
Addons
Service Operations
Object Reservations
Audit



RepositoryName > General

Identity	Status	Data Storage Settings	Sy
Provider:	<Not Specified>		
Connection String:	<Not Specified>		
Schema Name:	<Not Specified>		
Data Storage Version:	Data storage does not exist.		

 Edit

Repository - RepositoryName

Repository Data Storage Settings

DBMS: Microsoft SQL Server

Server Name: DEV-SDC\SQLEXPRESS





Database Name: RepositoryName



Schema Name: qds\_RepositoryName

Authentication: Windows Authentication

Login:

Password: .....

 Clear Settings  Generate Settings\*  Create Data Storage  Delete Data Storage

 Save  Cancel

- Clicking 'Generate Settings' in 'Data Storage Settings' will give the database the same name as the repository.



- If your windows authentication gives the error "Cannot recreate data storage" it means that you do not have the correct permissions in the database. Use a SQL user in Authentication or call your Server Administrator to get the correct permissions.

# RA: General setup cont.



Mode:

- Development is used when developing the metamodel and solution
- Production is used when everything is finished and should not be changed often

Metamodel folder:

- Where is the Models folder located on the server

Reload Metamodel:

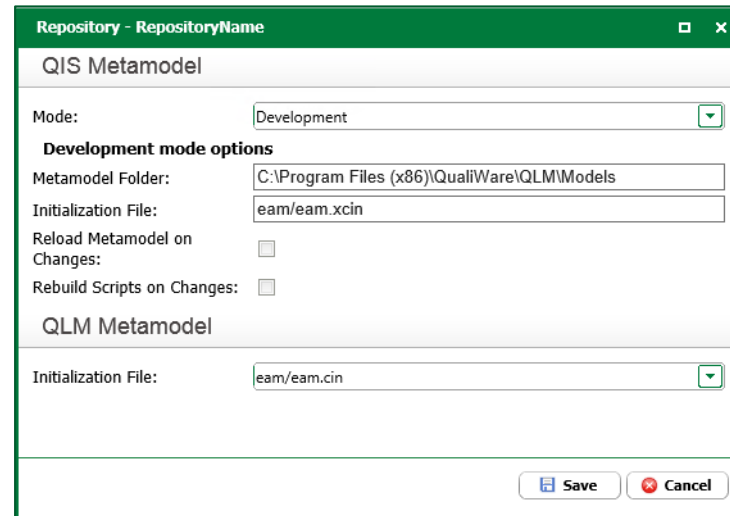
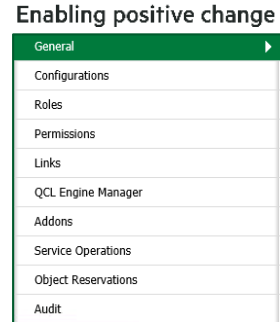
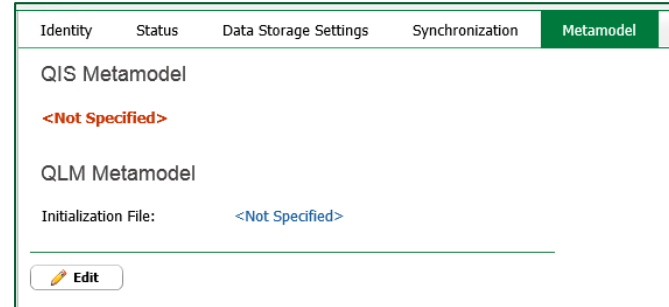
- When checked it will load on demand

Rebuild scripts

- When checked it will load C# scripts on demand

Initialization File:

- .xcin is used for the web configuration (front-end)
- .cin is for QLM (back-end)



# RA: General setup cont.

- Metamodel in Development
  - When a metamodel is in development you edit the files directly and the changes will be visible
- Metamodel in Production
  - When a metamodel is in Production you will either have to upload a new one (possibly with a new configuration if need arises to go back) or you can make changes directly in the database via the editor
  - The metamodel data in Production mode is stored as objects in the metamodel repository (database).

SECTIONS	
Repositories	Metamodels
Roles	Scripts
+ Create Metamodel Repository	
All Metamodels	
ProdEAMMetamodel	[-]
General	
Configurations	
Deployment	
Permissions	
Editor	[>]
Audit	

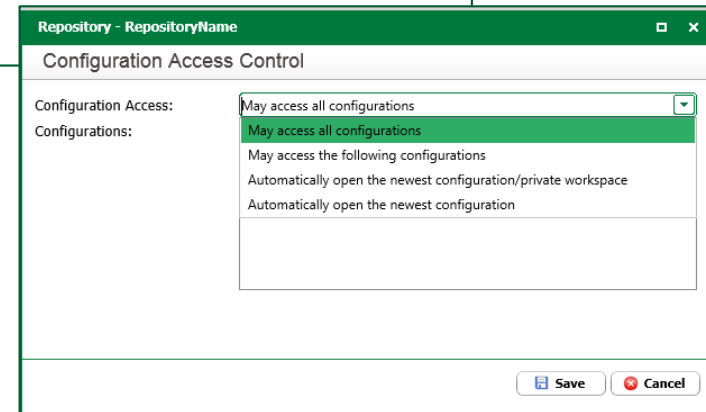
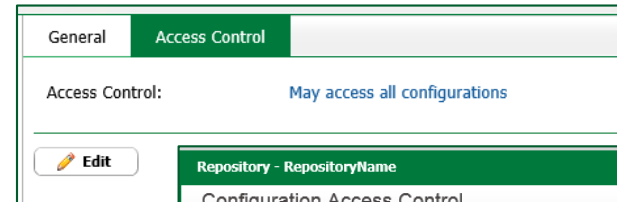
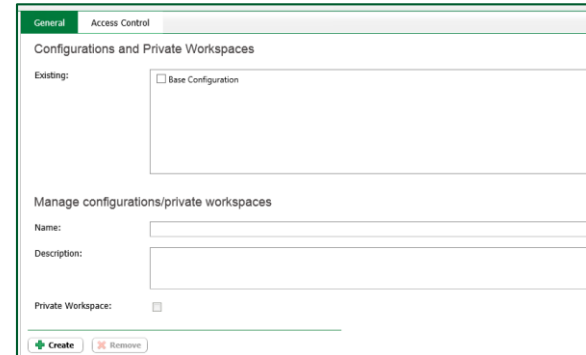


# RA: Configurations

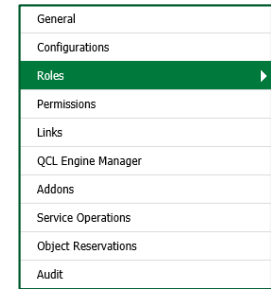
Enabling positive change

General
Configurations
Roles
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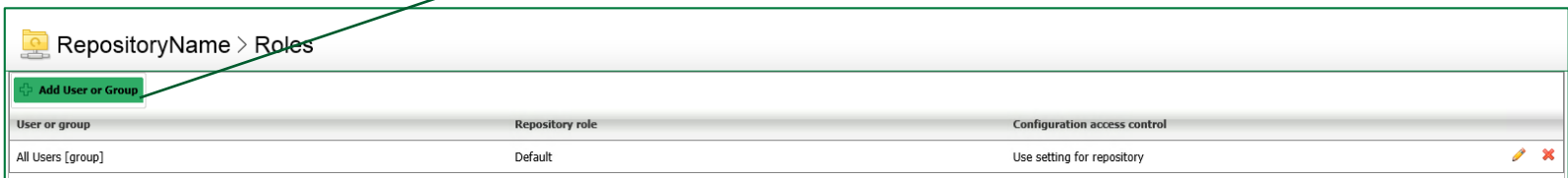
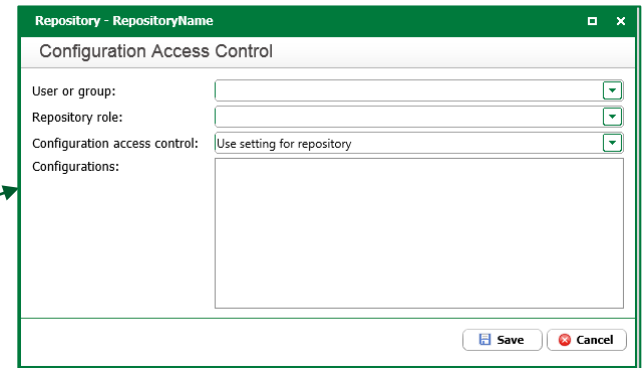
- Overview of Configurations
  - Private workspaces will get a [PW] after its repository name
  - Private workspaces and Base Configurations can either be created from here or from QLM
- Creating a new configuration based on an existing, the existing configuration will be closed and all objects will be read-only
  - A new configuration cannot be based on a private workspace
  - The new configuration will automatically contain all default objects from the existing configuration as read-only
  - New private workspaces must be based on the current configuration
  - **If the new configuration is created from QLM you will have the option of bringing existing Private Workspaces to the new configuration. IF done from RA you will loose the connection to them.**
- In Access Control tab it is possible to define which configurations / private workspaces will be presented to users at login.
  - Users still have access to the other configurations.



# RA: Roles



- Only for QLM: “Configuration Access Control” can be set so a Person only has access to the Base Configuration. You can also give a person access to only a specific Private Workspace. This person will also have access to Base Configuration, but not any other Private Workspaces in QLM.
- Only for web: You can use RepositoryRole to configure how information is shown on the web page (QEP). There are as of now no access rights restrictions on accessing Base Configuration and Private Workspaces by using the “Configuration Access Control”. It can be controlled by excluding the Private Workspace in the HTMLPublisher or by giving a filter (adding a Role in the HTMLPublisher).



The screenshot shows a web interface for "RepositoryName > Roles". There is a green "Add User or Group" button. Below it is a table with the following data:

User or group	Repository role	Configuration access control
All Users [group]	Default	Use setting for repository

Each row in the table has a small edit/delete icon (pencil and 'x') to its right.

# RA: Permissions

Enabling positive change

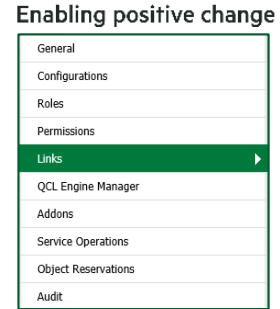
- General
- Configurations
- Roles
- Permissions**
- Links
- QCL Engine Manager
- Addons
- Service Operations
- Object Reservations
- Audit

- For Supervisor permissions all checkboxes need to be checked (Checking the Supervisor box will give all permissions).
- If you remove All\_users group from permissions and roles:
  - User used for QCL Engine Manager will have to get a license (more on QCL Engine Manager to come)
  - In Roles you also have to add the Qualiware Guest user with Default role, and add it to permissions with "Connect to repository" permissions.
- Below permissions default for All\_Users are shown:

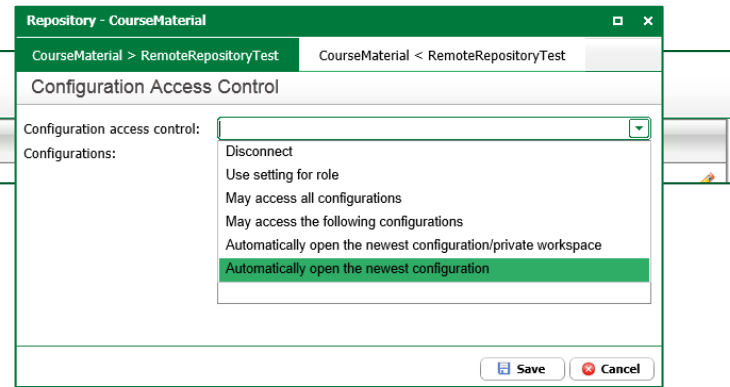
Permission
▶ Read all objects
▶ Write all objects
▶ Delete objects permanently
▶ Manage configurations
▶ Supervisor

Permission	Grant	Deny
▼ Read all objects	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Read objects	<input type="checkbox"/>	<input type="checkbox"/>
Read object ACLs	<input type="checkbox"/>	<input type="checkbox"/>
Connect to repository	<input checked="" type="checkbox"/>	<input type="checkbox"/>
View objects by owner	<input type="checkbox"/>	<input type="checkbox"/>
▼ Write all objects	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Edit objects	<input type="checkbox"/>	<input type="checkbox"/>
Create objects	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Edit object ACLs	<input type="checkbox"/>	<input type="checkbox"/>
Change object owner	<input type="checkbox"/>	<input type="checkbox"/>
Remove object reservations	<input type="checkbox"/>	<input type="checkbox"/>
▼ Delete objects permanently	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Delete objects permanently	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▼ Manage configurations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manage configurations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▼ Supervisor	<input type="checkbox"/>	<input type="checkbox"/>
Import data	<input type="checkbox"/>	<input type="checkbox"/>

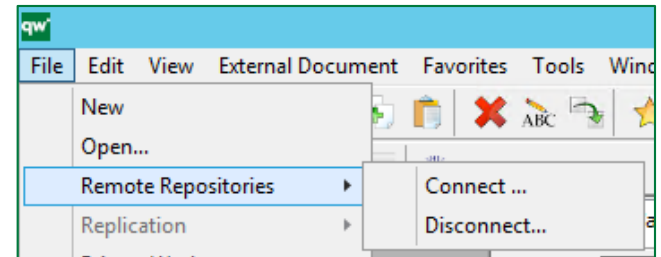
# RA: Links



- If you want to have access to data from other repositories, you can connect yours to others from the Links menu in RA.



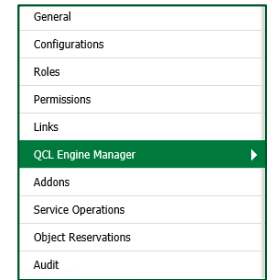
- You have to open the connection afterwards in QLM.



# RA: QCL Engine Manager



Enabling positive change

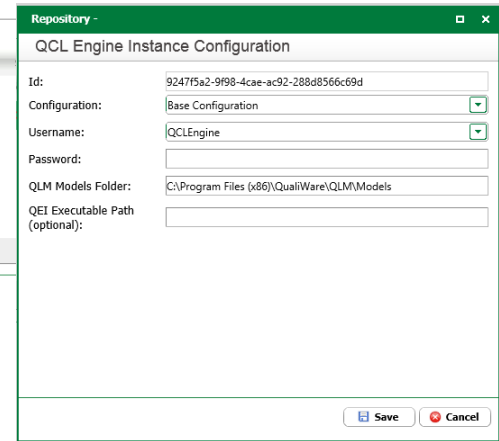
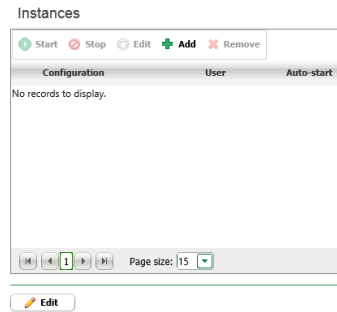


- Setting up QCL Engine Manager for publishing and governance should be done for each configuration.

- (In older versions of QualiWare this is corresponding to the QEI Services).

**!** If you remove All\_user group then you will have to give the user used for the QCL Engine Manager a license.

QCL Engine Manager  
Default path to QEI executable (qwc32.exe): qwc32.exe



Configuration	User	Auto-start	Status	Models folder path
Base Configuration	QCLEngine	Disabled	Stopped	C:\Program Files (x86)\QualiWare\QLM\Models

- The QCL Engine will maintain a log file for debugging purposes.
- Inspect this file to see why automated actions do not happen (publishing diagrams or generating prints)

QIS WebForms ▶ 6.4 ▶ GeneratedHtml ▶ [redacted] ▶ Base Configuration ▶ LOG

Search LOG

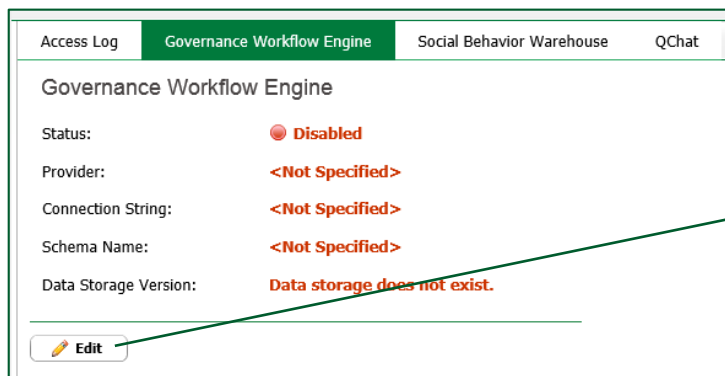
Name	Date modified	Type	Size
QLMERROR_[redacted].Admin.ERR	25-11-2016 15:59	ERR File	22 KB

```
2016 11 02 08.31 Configuration: eba19438-a910-466c-8972-54ad954dc95b
2016 11 02 08.31 Publisher: QualiWare Enterprise Publisher
2016 11 02 08.31 Image Type: SVG
2016 11 02 08.31 Location: C:\Program Files\QualiWare\QEF64\Web\WebModules\QIS WebForms\6.4\GeneratedHtml
2016 11 02 08.31 Web: [redacted]
2016 11 02 08.31
2016 11 02 09.38 Event: [redacted] [T:Person, R:0, L:en-US, MN:Loa Lind CN:Base Configuration]
2016 11 02 09.38 * Starting Publisher [Language: en-US, Configuration: Base Configuration]
2016 11 02 09.38 1/1: publishing Loa Lind [Person]
2016 11 02 09.38
2016 11 02 09.38 Event: [redacted] [T:Person, R:0, L:en-US, MN:Loa Lind CN:Base Configuration]
2016 11 02 09.38 * Starting Publisher [Language: en-US, Configuration: Base Configuration]
2016 11 02 09.38 1/1: publishing Loa Lind [Person]
2016 11 02 09.38
2016 11 02 14.17 Event: Asset Management [T:GovernanceWorkFlow, R:0, L:en-US, MN:Loa Lind CN:Base Configur
2016 11 02 14.17 * Starting Publisher [Language: en-US, Configuration: Base Configuration]
2016 11 02 14.17 1/1: publishing Asset Management [GovernanceWorkFlow]
2016 11 02 14.17
```

# RA: Addons

General
Configurations
Roles
Permissions
Links
QCL Engine Manager
<b>Addons</b>
Service Operations
Object Reservations
Audit

- In the Repository Administrator (RA) under Addons you create the Governance Workflow Engine database.
  - Per default it has chosen a database and schema name
  - Remember to check the 'is enabled' box



Access Log **Governance Workflow Engine** Social Behavior Warehouse QChat

**Governance Workflow Engine**


Status: ● Disabled

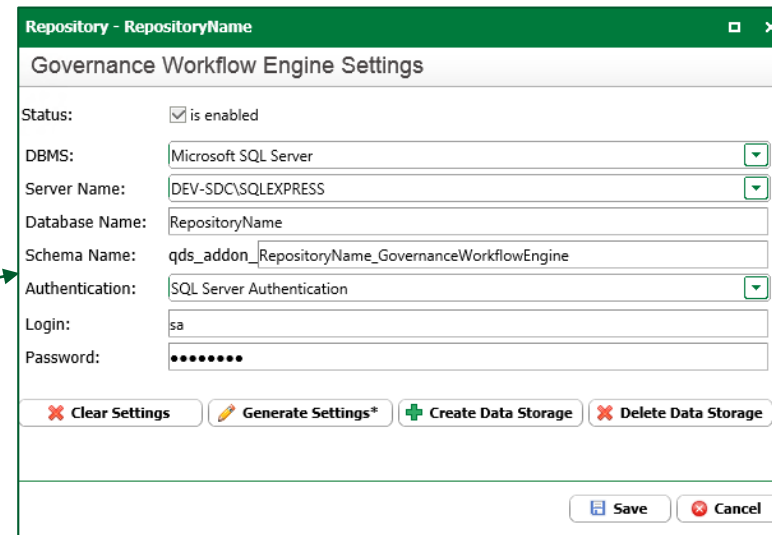
Provider: <Not Specified>

Connection String: <Not Specified>

Schema Name: <Not Specified>

Data Storage Version: Data storage does not exist.

 Edit



Repository - RepositoryName

**Governance Workflow Engine Settings**

Status:  is enabled

DBMS:

Server Name:





Database Name:



Schema Name:

Authentication:

Login:

Password:

 Clear Settings  Generate Settings\*  Create Data Storage  Delete Data Storage

 Save  Cancel

# RA: Service Operations

General
Configurations
Roles
Permissions
Links
QCL Engine Manager
Addons
<b>Service Operations</b>
Object Reservations
Audit

- In Service Operations you can:
  - Change the default language of your repository
  - Recreate
    - Link references
    - Graphical relations
    - Remote references
    - Xhtml full-text search catalog

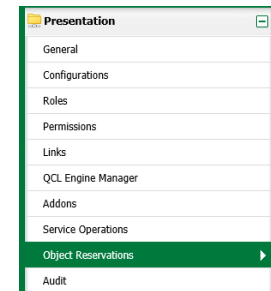
<h3>Replace Language</h3> <p>Replaces language of objects in repository.</p> <p>Language to replace: <input type="text" value="English (United States) (en-US)"/></p> <p>New language: <input type="text"/></p> <p><a href="#">Replace</a></p>
<h3>Use List</h3> <p>Recreates use list (link references) of all repository objects.</p> <p><a href="#">Recreate</a></p>
<h3>Relation List</h3> <p>Recreates relation list (graphical relations) of all diagrams.</p> <p><a href="#">Recreate</a></p>
<h3>Proxy</h3> <p>Recreates proxy (remote references) of all repository objects with remote links.</p> <p><a href="#">Recreate</a></p>
<h3>Xhtml</h3> <p>Recreates xhtml full-text search catalog.</p> <p><a href="#">Recreate</a></p>



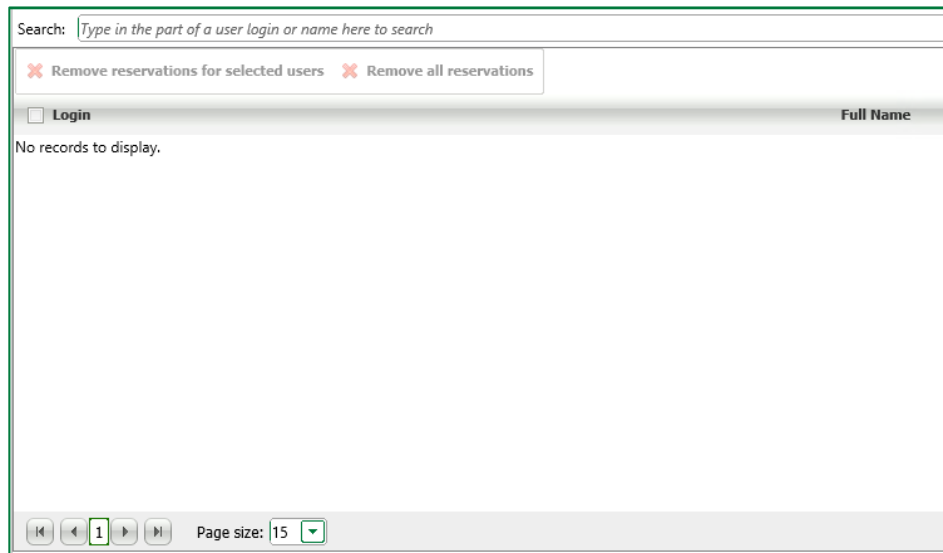
# RA: Object Reservations



Enabling positive change



- Right now there are no customizations that reserve objects for a longer period, but the approve process might fail leaving objects reserved, and the only way to remove this (without using code) is via this list
- Reservation is persisted to QIS database whereas "in-use-by" is not a reservation, but a lock in memory



# Trouble Shooting

# Web: user cannot log in What do you do?

## Web Forms Login

⚠ No license found for the module "QIS WebForms v.6.3". Web access requires Concurrent or PerUser license, and not PerPC.

**User Name:**

**Password:**  \*

**Domain:**  ▼


Windows Authentication

**LOG IN** ■

# Web: user cannot log in

## What do you do?

- No license found = User has been validated **but** he has not licenses.
- Assign him the appropriate license in QEF

 Licenses

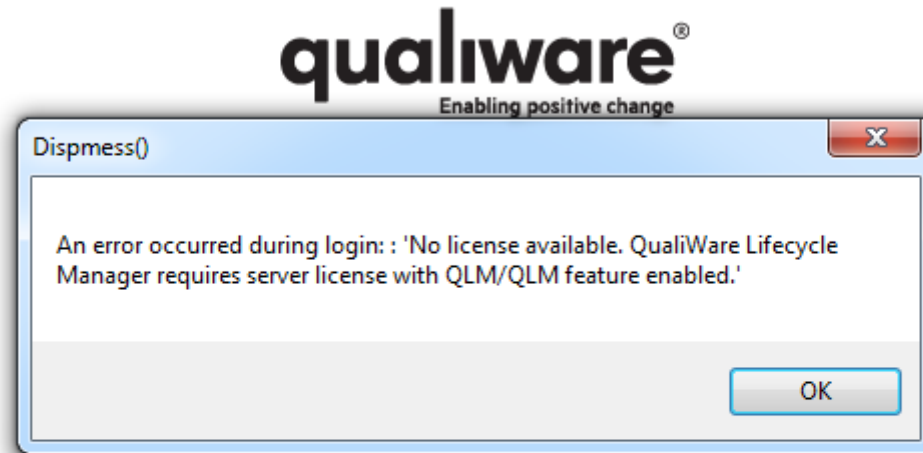
License type:

[Settings](#) [Installation Code](#) [+ Install](#) [✗ Uninstall](#) [✎ Edit](#) [↓ Download CSV](#)

<input type="checkbox"/> Name	Type	Limit	Assigned count	Created	Expires	Trial	Status
<input type="checkbox"/> RA	Concurrent	2 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input checked="" type="checkbox"/> QLM QEA	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QCL Engine	Concurrent	20 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QEP	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> Collaboration	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> CAI	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> Compliance	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QWE	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QWM BPN	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QWM WFD	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QualiWare Connector for SharePoint Server	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.

# QLM: user cannot log in

## What do you do?




QualiWare Lifecycle Manager









# QLM: user cannot log in

## What do you do?

- No license found = User has been validated **but** he has not licenses.
- Assign him the appropriate license in QEF

 Licenses


License type:

 Settings  Installation Code  Install  Uninstall  Edit  Download CSV







<input type="checkbox"/> Name	Type	Limit	Assigned count	Created	Expires	Trial	Status
<input type="checkbox"/> RA	Concurrent	2 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input checked="" type="checkbox"/> QLM QEA	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QCL Engine	Concurrent	20 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QEP	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> Collaboration	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> CAI	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> Compliance	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QWE	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QWM BPN	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QWM WFD	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.
<input type="checkbox"/> QualiWare Connector for SharePoint Server	Concurrent	5 sessions	none	17-11-2016	06-04-2017	<input checked="" type="radio"/> yes	<input checked="" type="checkbox"/> License is valid.

# QLM and Web: user cannot log in. What do you do?

- Upon expecting licenses the following error messages are revealed:

 Licenses

License type:

 Settings  Installation Code  Install  Uninstall  Edit  Download CSV

<input type="checkbox"/>	Name	Type	Limit	Assigned count	Created	Expires	Trial	Status
<input type="checkbox"/>	RA	Concurrent	2 sessions	none	06-09-2016	20-09-2016	<input checked="" type="radio"/> yes	<b>License is invalid.</b> The license "RA" (5188237c-b78f-49c5-b014-8dab81604b9e) has expired. Expiration date is 20-09-2016 00:00:00.
<input type="checkbox"/>	QLM QEA	Concurrent	5 sessions	none	06-09-2016	20-09-2016	<input checked="" type="radio"/> yes	<b>License is invalid.</b> The license "QLM QEA" (7071f6b1-639a-4fda-aa4e-02d4770b2e66) has expired. Expiration date is 20-09-2016 00:00:00.
<input type="checkbox"/>	QCL Engine	Concurrent	20 sessions	none	06-09-2016	20-09-2016	<input checked="" type="radio"/> yes	<b>License is invalid.</b> The license "QCL Engine" (24bb5af3-d127-4253-ab90-296ef18b486e) has expired. Expiration date is 20-09-2016 00:00:00.
<input checked="" type="checkbox"/>	QEP	Concurrent	5 sessions	none	06-09-2016	20-09-2016	<input type="radio"/> yes	<b>License is invalid.</b> The license "QEP" (af20a584-5e1d-4735-8d84-07a456b8f65a) has expired. Expiration date is 20-09-2016 00:00:00.

# QLM and Web: user cannot log in. What do you do?

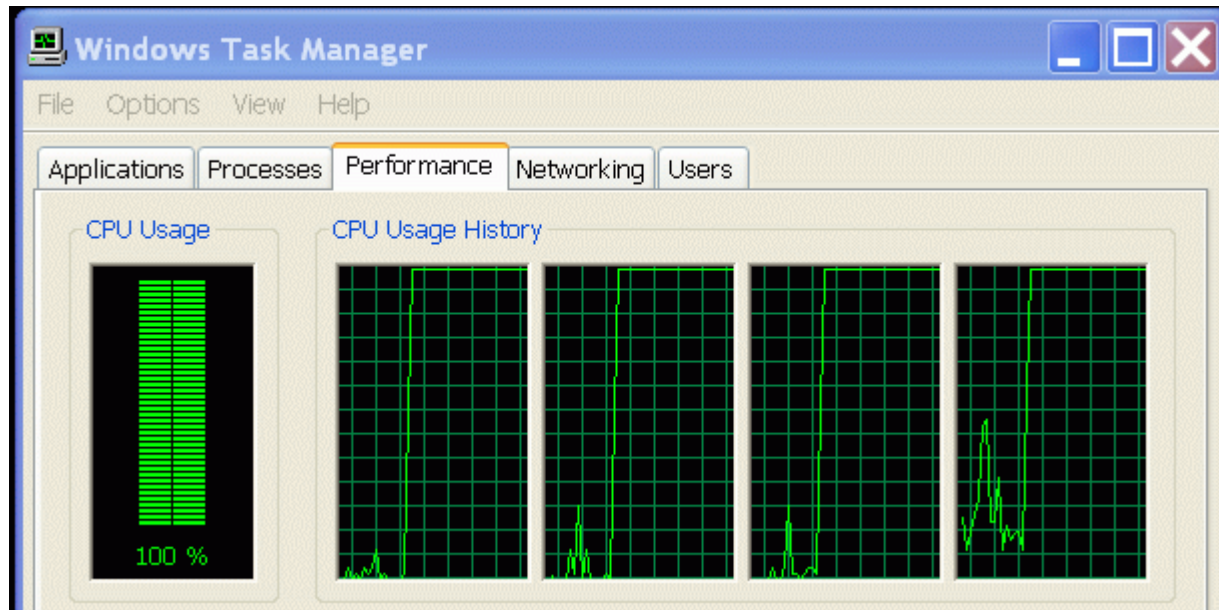


- Licenses are invalid = Request new licenses from [license@qualiware.com](mailto:license@qualiware.com)
- Licenses can become invalid due to hardware changes, or simply because they expire (trial licenses only).



# System is running slowly What do you do?

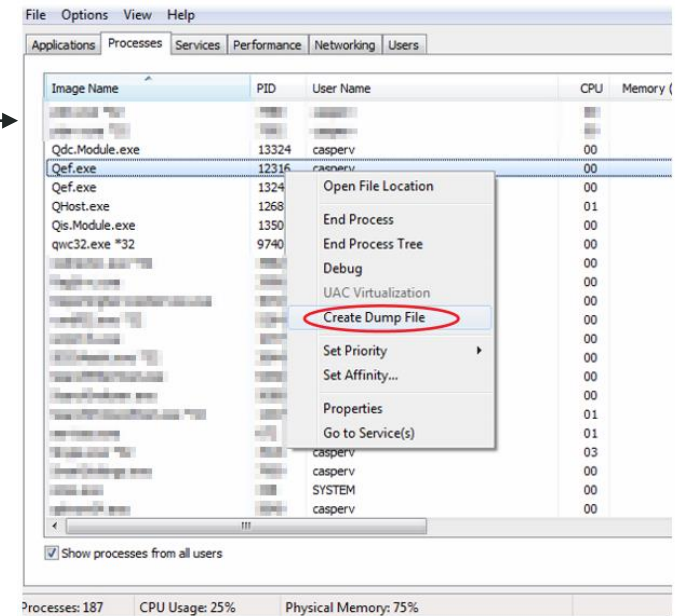
Immediate investigations reveal the following:



# System is running slowly What do you do?

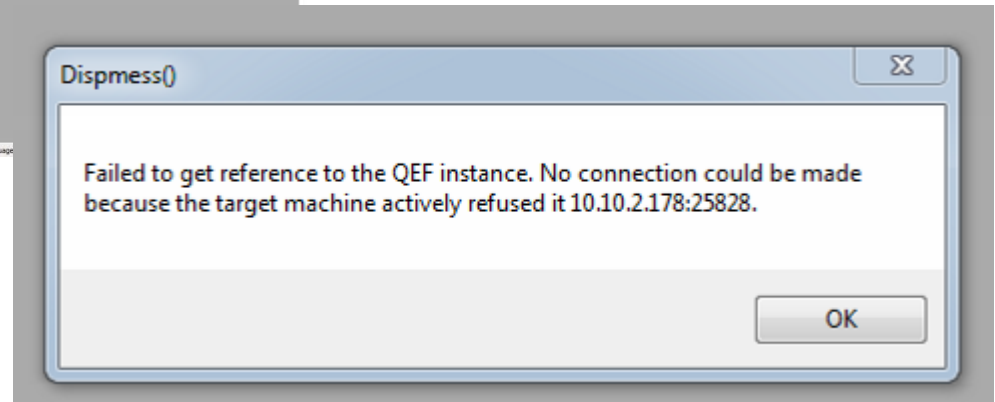
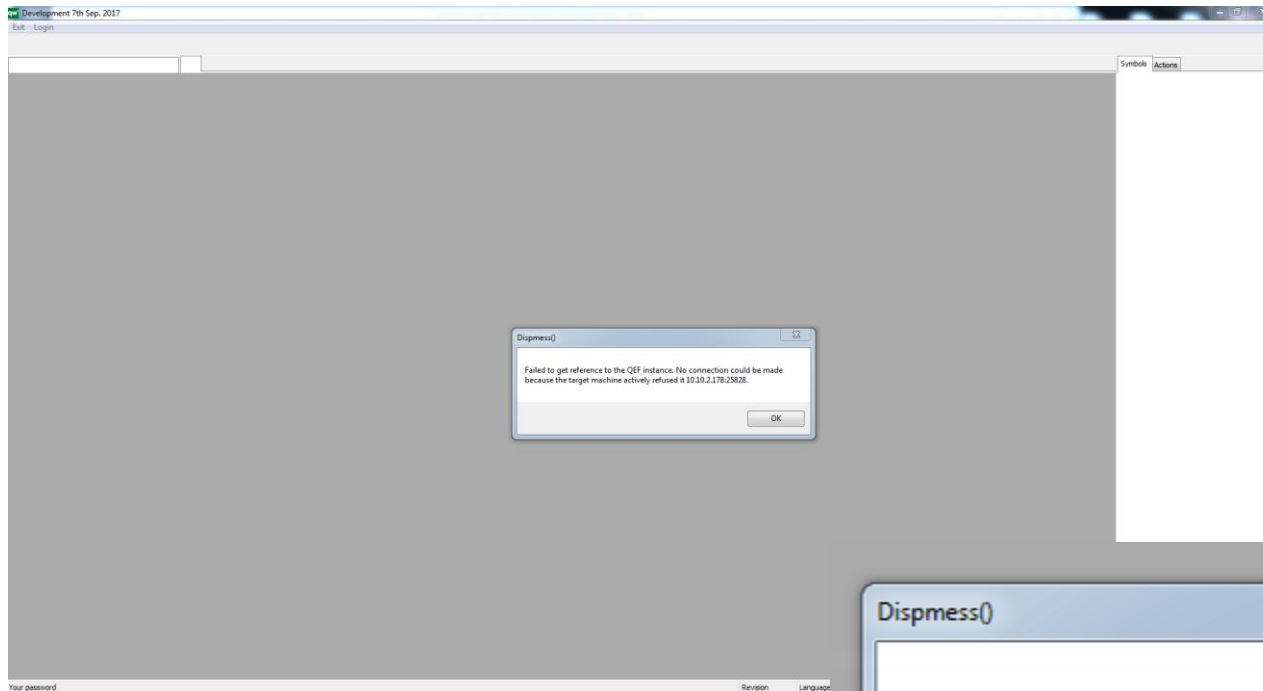
Immediate Response:

- 1) Task Manager: Create a process dump file →
- 2) QEF: Export QEF log
- 3) Send Dump File + QEF Log to QW Support  
(Use <https://fileshare.qualiware.com/> to upload large files)
- 4) Services: Restart QEF



# QLM: user cannot log in

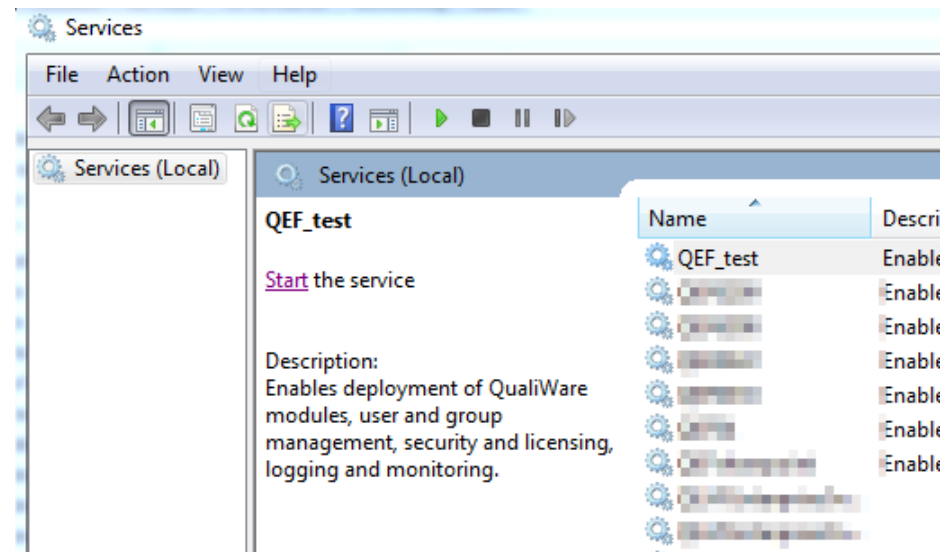
## What do you do?



# QLM: user cannot log in

## What do you do?

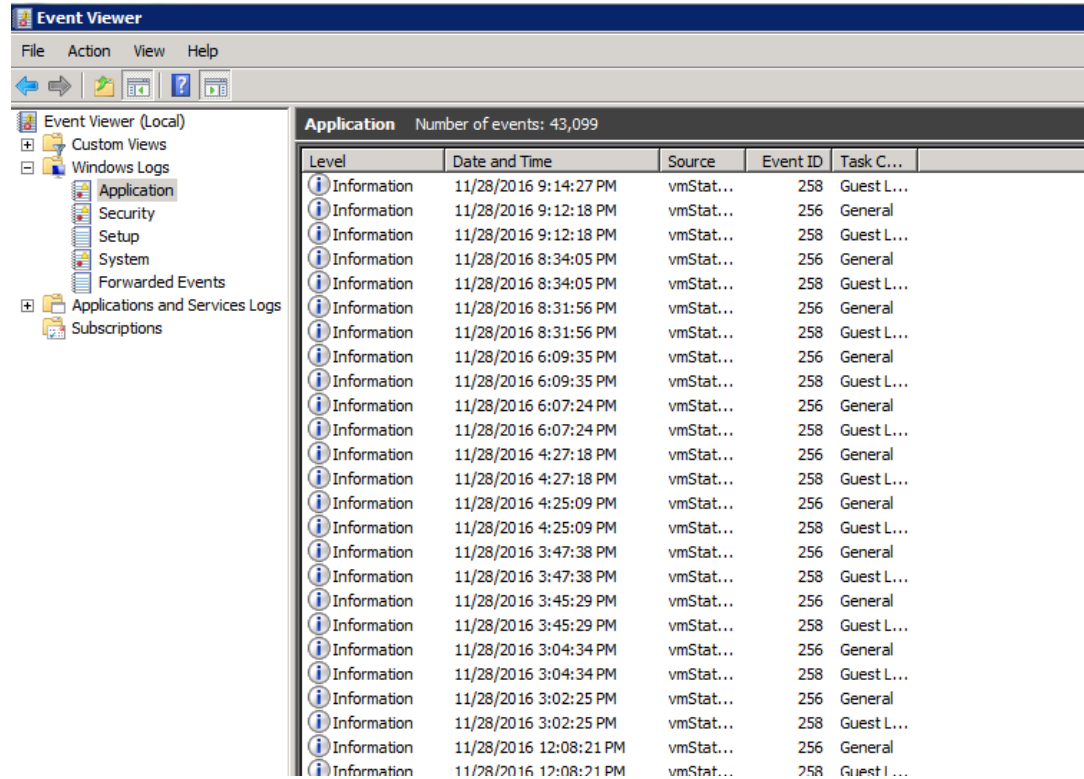
- Failed to get reference to QEF instance = QEF is not running
- 1) Access server's Service list
  - 2) Verify that QEF – service is not running
  - 3) Restart QEF service



# QLM: user cannot log in

## What do you do?

### 4) Investigate Windows Event Log



Level	Date and Time	Source	Event ID	Task C...
Information	11/28/2016 9:14:27 PM	vmStat...	258	Guest L...
Information	11/28/2016 9:12:18 PM	vmStat...	256	General
Information	11/28/2016 9:12:18 PM	vmStat...	258	Guest L...
Information	11/28/2016 8:34:05 PM	vmStat...	256	General
Information	11/28/2016 8:34:05 PM	vmStat...	258	Guest L...
Information	11/28/2016 8:31:56 PM	vmStat...	256	General
Information	11/28/2016 8:31:56 PM	vmStat...	258	Guest L...
Information	11/28/2016 6:09:35 PM	vmStat...	256	General
Information	11/28/2016 6:09:35 PM	vmStat...	258	Guest L...
Information	11/28/2016 6:07:24 PM	vmStat...	256	General
Information	11/28/2016 6:07:24 PM	vmStat...	258	Guest L...
Information	11/28/2016 4:27:18 PM	vmStat...	256	General
Information	11/28/2016 4:27:18 PM	vmStat...	258	Guest L...
Information	11/28/2016 4:25:09 PM	vmStat...	256	General
Information	11/28/2016 4:25:09 PM	vmStat...	258	Guest L...
Information	11/28/2016 3:47:38 PM	vmStat...	256	General
Information	11/28/2016 3:47:38 PM	vmStat...	258	Guest L...
Information	11/28/2016 3:45:29 PM	vmStat...	256	General
Information	11/28/2016 3:45:29 PM	vmStat...	258	Guest L...
Information	11/28/2016 3:04:34 PM	vmStat...	256	General
Information	11/28/2016 3:04:34 PM	vmStat...	258	Guest L...
Information	11/28/2016 3:02:25 PM	vmStat...	256	General
Information	11/28/2016 3:02:25 PM	vmStat...	258	Guest L...
Information	11/28/2016 12:08:21 PM	vmStat...	256	General
Information	11/28/2016 12:08:21 PM	vmStat...	258	Guest L...

# Web: user cannot log in What do you do?

### Web Forms Login

⚠ Cannot authenticate user "casperv". Invalid user login or password.

User Name:

Password:  \*

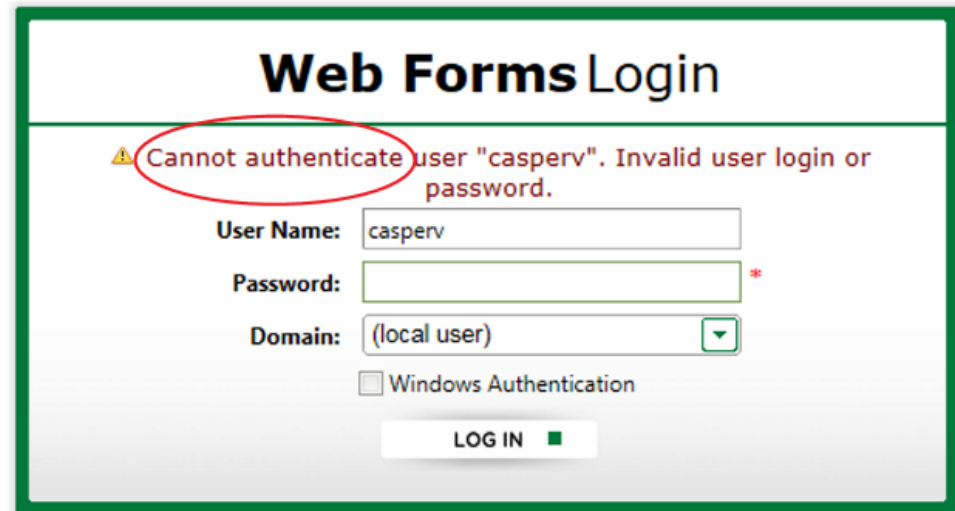
Domain:  ▼

Windows Authentication

# Web: user cannot log in

## What do you do?

- Cannot authenticate = User cannot be found in QEF
  - 1) Verify that he does not exist in QEF users list
  - 2) Inquiry IT: Does user exist in synchronized AD-groups?  
Supply IT with AD Sync screenshot / LDAP-paths



**Web Forms Login**

⚠ Cannot authenticate user "casperv". Invalid user login or password.

User Name:

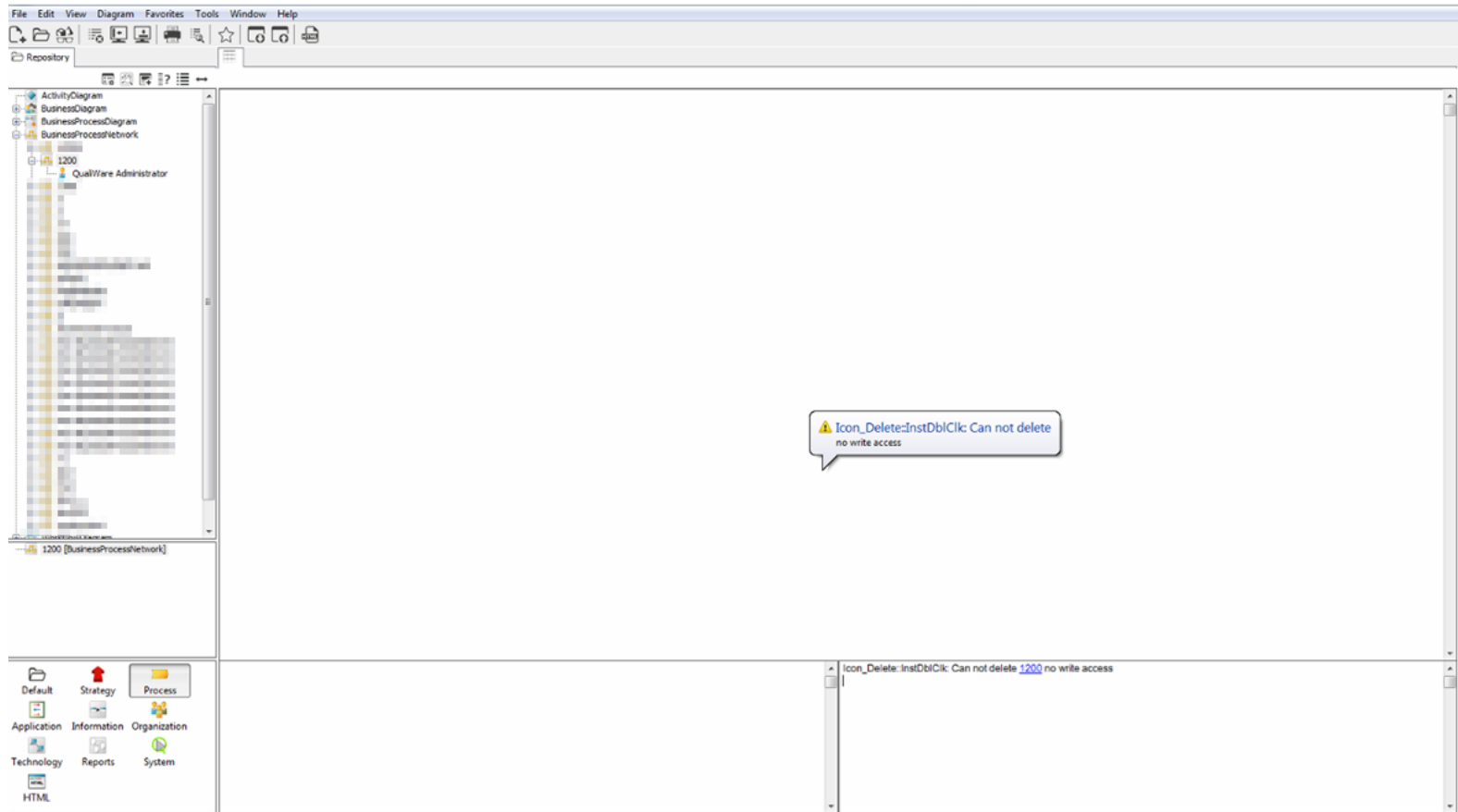
Password:

Domain:  ▼

Windows Authentication

**LOG IN** ■

# QLM: user cannot delete an object. What do you do?





# QLM: user cannot delete an object. What do you do?

- Investigation in QLM reveals the following:
- How do you delete it?

---

**BusinessProcessNetwork** [1200](#)  
Revision: 0. Language: da-DK. State: Approved. Set by: [QualiWare Administrator](#) on date: 20  
**READ ONLY:** The object is frozen (Create a new revision to edit)  
**Properties**  
Circulation period (days):  
3  
History Of Changes:  
New revision created; QualiWare Administrator; 20-06-2016 11:53:04  
\*\*\*\*\*  
This object currently exists in the following language variants:  
[1200](#)  
Valid from: 2016 06 20 11 53:18

## QLM: user cannot delete an object. What do you do?

- This is a trick question.
- It is impossible to delete frozen objects.
- (And this is not what the user want)
  
- User must delete a new revision of the object to remove it. Create a new revision and delete this.
- (The frozen object can still be found by expert QLM users)

# QLM: user cannot edit an object. What do you do?

qw BusinessProcess : **Business Process** : Rev. 0 : Default READ ONLY

BusinessProcess

- ... Audits
- ... Consulted
- ... Decomposition
- ... Capability
- ... Start - End
- ... Input Output
- ... Guide Enabler
- ... Information
- ... IT Support
- ... ApplicationFunctionality
- ... HealthCheck
- ... ABC
- ... Describe
- ... Controls
- ... Influences
- + Associate
- + Governance

Short Description:

Purpose:

Responsible:  +

Owner:  +

Resources:

Name	Type	#-o...	%...	Cost (100% ...
------	------	--------	------	----------------

OK Cancel Apply

# QLM: user cannot edit an object. What do you do?

- Investigation in QLM reveals the following:
- How do edit it?

WorkflowDiagram	U	workFlowDiagram	2011 09 28 13:50:11	
WorkflowDiagram	*P 0	WorkFlowDiagram	2013 10 15 12:39:40	
WorkflowDiagram	*P 0	WorkFlowDiagram	2013 10 15 14:18:38	
WorkflowDiagram	*P 0	WorkFlowDiagram	2016 10 03 13:26:53	
WorkflowDiagram	*P 0	WorkFlowDiagram	2016 10 06 14:02:58	
WorkflowDiagram	*P 0	WorkFlowDiagram	2016 10 06 14:09:50	
WorkflowDiagram	*P 0	WorkFlowDiagram	2016 10 12 14:18:42	

---

**WorkFlowDiagram** [View Details](#)  
Revision: 0. Language: en-US. State: Ready for approval. Set by: Governance Workflow  
**READ ONLY:** The object is in use by [User](#)  
**Properties**  
ApprovedBy: [User](#)  
Circulation period (days):  
Responsible: [User](#)  
History Of Changes:

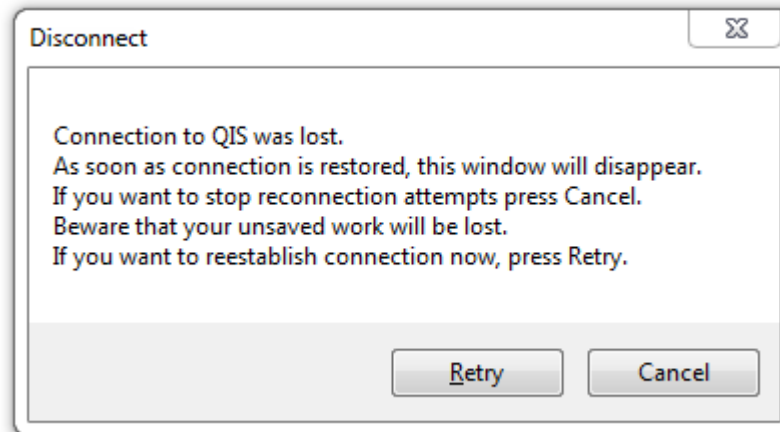
# QLM: user cannot edit an object. What do you do?



- Someone is using it. This user must release the "lock" of the object.
- QLM: close the object/diagram window
- Web: close the edit form

If the user has closed QLM and Web, but this issue persists: go to QEF Sessions and close the users current session.

# QLM: A user experiences connection issues. What do you do?



## **QLM: A user experiences connection issues. What do you do?**

Immediate action:

- Check if user is using wifi or cable to connect to the internet. In case of wifi: switch to cable.
- Sometimes, due to network quality, the user can work fine using the cable for the rest of the day. And the next morning they will experience no issue using wifi again.

If the issue persists contact QualiWare support.

([support@qualiware.com](mailto:support@qualiware.com))

# Web: User has problems viewing a list (HTMLQueryResultView) What do you do?

Sorry! Requested page cannot be loaded.

## Source Error

Query '■■■■/BaseConfiguration/5ff7deb9-5ed4-4957-a7b3-a516585987f1-da-DK.xquery' was not found.

## Requested URL

<http://localhost/QEF/WebModules/WebForms/QueryResultView.aspx?File=■■■■/BaseConfiguration/5ff7deb9-5ed4-4957-a7b3-a516585987f1-da-DK.xquery&ConfWorkFlowDiagram&LinkIconColumnName=Link>

## Repository

■■■■

## Configuration

0a7fcb29-4a17-4629-9019-bcd06535cc42



# Web: User has problems viewing a list (HTMLQueryResultView) What do you do?

Immediate action:

- Restart the session. (Ask them to close internet explorer and wait for 2 minutes. Then access the page again.)

If the issue persists contact QualiWare support.  
([support@qualiware.com](mailto:support@qualiware.com))

# **Web: diagrams are not published on the web**

## **What do you do?**

User reports that diagrams do not “publish” when changed in QLM.

# Web: diagrams are not published on the web

## What do you do?

Immediate action:

- Investigate QCL Engine Log File and restart QCL Engines

```
2016 11 17 14.26    Disconnect
2016 11 17 14.26    Connection to QIS was lost.
As soon as connection is restored, this window will disappear.
If you want to stop reconnection attempts press Cancel.
Beware that your unsaved work will be lost.
If you want to reestablish connection now, press Retry.
```

```
2016 11 17 14.26    Disconnect
2016 11 17 14.26    Connection to QIS was lost.
As soon as connection is restored, this window will disappear.
If you want to stop reconnection attempts press Cancel.
Beware that your unsaved work will be lost.
If you want to reestablish connection now, press Retry.
```

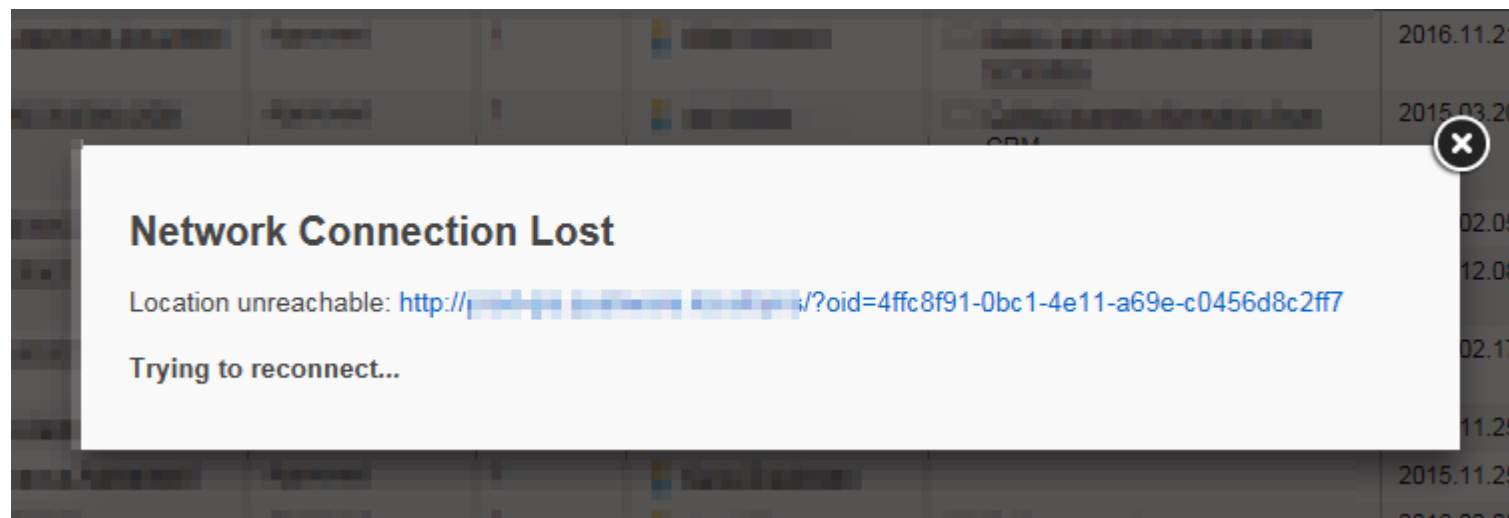
Contact QualiWare support.

([support@qualiware.com](mailto:support@qualiware.com))

Attaching the QCL Engine Log File will be a great help.

# Web: User lost connection to the website

## What do you do?



# Web: User lost connection to the website



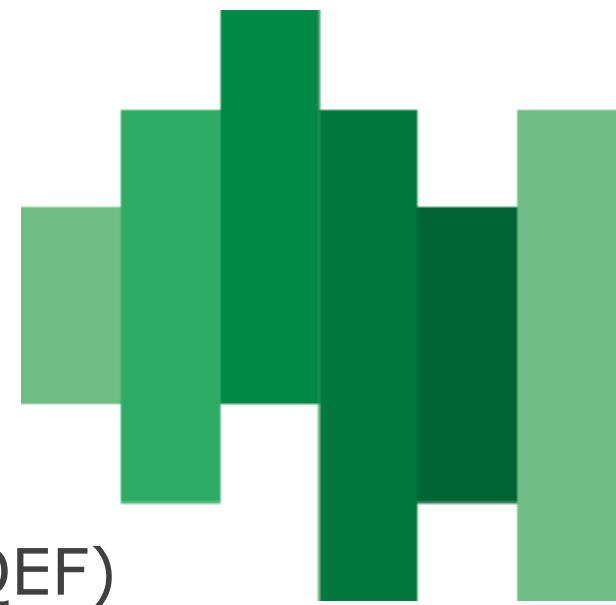
## What do you do?

- Refresh the internet browser (F5)

If the issue persists contact QualiWare support.

([support@qualiware.com](mailto:support@qualiware.com))

# Administration 6.4



QualiWare Execution Framework (QEF)  
Repository Administrator (RA)