

## RoQC Tools

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### Modules for Studio<sup>†</sup>

Advanced data management tools

– manage your data rather than just reporting on it !

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## Release Notes

Oct 2021

### 1. About RoQC Data Management AS

**RoQC Data Management AS** is a company registered in Tau, Norway that specialises in Data Management and the support of G&G software delivered by Landmark or Schlumberger. RoQC Data Management AS was founded in 1998, and has clients all over the world.

The sister company **RoQC Data Management LLC** registered in Houston, Texas, USA started in 2011 and specialises in Data Management & Project Management.

RoQC also develops and sells an advanced data management software package called RoQC Tools. These tools have been developed in close cooperation with some of the world's largest, and smallest, oil companies. RoQC Tools exist for both the Landmark OpenWorks environment and Schlumberger's Studio & Studio Manager environment.

RoQC's success is due not only to its unmatched experience base and its ability to merge geological and computing skills with E&P experience, but also to its ability to rapidly develop tools tailored to individual client's needs.

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## Table of Contents

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RoQC Tools .....	1
1. About RoQC Data Management AS.....	2
2. Copyright © 2014 - 2021 RoQC Data Management AS. All Rights Reserved.....	3
3. Schlumberger Trademarks & Service Marks .....	3
4. Product Information.....	5
5. Introduction.....	5
6. Plugin Menu Location.....	5
7. New Features.....	6
Audit Report .....	10
Attribute Manager.....	10
Repository Tag Manager .....	10
Seismic Data Manager.....	10
Strat Cleanup.....	10
Studio Deletion Manager .....	10
Well Log Data Viewer .....	10
CDF Sync .....	10
8. Data Manipulation.....	10
9. Custom Domain Objects.....	11
10. Studio Version.....	11
11. Third Party Libraries.....	11
12. Licensing .....	11
13. List of known issues .....	11
14. Support .....	11

#### 4. Product Information

##### RoQC Tools plug-in for Studio

Product version:

RoQC Tools for Studio 201x.16.19

Release date: Oct 2021

Studio version: 2018 , 2019 or 2020

Country of origin: Norway

ECCN: EAR99 origin Norway

Public key token: ebf4237475de9287

#### 5. Introduction

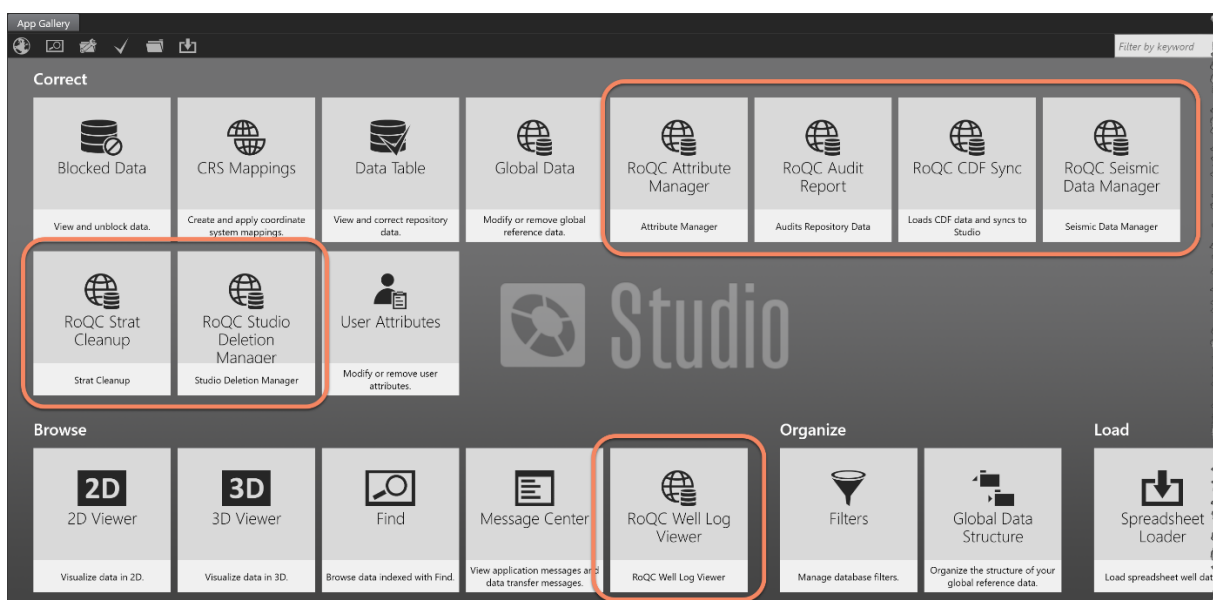
RoQC Tools for Studio are a series of modules that enable you to manage your data in Studio. The central tool is Audit-Report which provides you with a quality check on many of your data items.

RoQC Tools for Studio make it possible to manage your Studio data, whether it is distributing and enforcing corporate standards, or just improving your data quality.

These release notes cover any or all of the plugins. Details specific to any particular plug-in are highlighted as only being relevant to that plug-in.

#### 6. Plugin Menu Location

You can find the RoQC Tools for Studio modules in the Studio 'App Gallery' in the 'Correct' and "Browse" sections .



## 7. New Features

Release notes - Studio - Version STUD – 202x.16.19

### Bug Fix

STUD-101 Attribute Manager - Deletes not saving

STUD-102 Audit Report - Welltops Duplicate Depths

STUD-98 GENERAL - Unable to see RoQC Tools for Studio modules in the Studio 'App Gallery' in the 'Correct' and 'Browse' sections

### Improvement

STUD-96 Indexer – Indexer fails when running batch

The new functionality in the 201x.16.18 release was:

### Bug Fix

[STUD-92] - Seismic Manager - Broken field 2019

[STUD-93] - Studio Deletion Manager - Broken icon in main window

[STUD-94] - Audit Report - Tear off popups are losing format or data, not sure

[RSYNC-83] - Studio -CDP - order wellbores before surveys/plans/etc

[RSYNC-84] - Studio - CDP - use wellbore\_id + survey\_id + sequence\_no as survey identifier

[RSYNC-86] - Studio - CDP - use deepest survey component when naming a composite survey

[RSYNC-88] - Studio - CDF - merge into main Studio branch

[RSYNC-90] - Studio - CDF - various tidy-up

### New Feature

[RSYNC-1] - Studio - CDP - brainstorm content and implementation

[RSYNC-3] - Studio - CDP - define model

[RSYNC-4] - Studio - CDP - define CDP REST interface

[RSYNC-5] - Studio -CDP - investigate the Studio api

[RSYNC-8] - Studio - CDP - define and build Studio model class

[RSYNC-9] - Studio -CDP - CDP to Studio class translation

[RSYNC-10] - Studio -CDP - First pass at Plugin UI

[RSYNC-11] - Studio - CDP - polling code

[RSYNC-12] - Studio - CDP - authentication and connection module

[RSYNC-49] - Studio - CDP - Rework the GUI for load on demand.

[RSYNC-71] - Studio - CDP - Get CRS values from wells into a WKT string that we can use

[RSYNC-72] - Studio - CDP - Add filter capability

[RSYNC-73] - Studio - CDP - Context menus

[RSYNC-74] - Studio - CDP - Button states

[RSYNC-75] - Studio - CDP - Verify value datums being returned from Cognite

[RSYNC-76] - Studio - CDP - Syncing code

[RSYNC-77] - Studio - CDP - Add casings

[RSYNC-78] - Studio - CDP - Add a progress window that prevents events from being acknowledged

[RSYNC-79] - Studio - CDP - Can't store Ocean references between operations

[RSYNC-80] - Studio - CDP - Need smarter saving of repo changes between operations

#### Improvement

- [STUD-79] - Seismic Manager - needs a delete function
- [STUD-88] - Seismic Manager - add date columns
- [RSYNC-44] - Rewrite CDF Client to current standards
- [RSYNC-45] - Studio - CDP - Creating Common models and populating from data source
- [RSYNC-46] - Studio - CDP - Make a DevExpress WPF TreeListView that can load data on demand
- [RSYNC-67] - Studio CDF - detailed proposal for EDM to CDF via DSIS native OData
- [RSYNC-68] - Studio CDF - work with Cognite to ensure our Postman URIs are used

The new functionality in the 2018.16.17 release was:

#### Bug Fix

- [STUD-81] - Installer - certificate error
- [STUD-82] - Seismic Data Manager - Allow empty strings in the bulk rename destination
- [STUD-86] - Well Log Viewer - export button not working
- [STUD-89] - General - Sql server queries time out too soon on large databases

#### New Feature

- [STUD-35] - Seismic Manager - Preserve time stamp when distributing changes to Petrel
- [STUD-85] - Audit Report - Prevent double-clicks on Generate Report

The new functionality in the 2018.16.15 release was:

#### Bug Fix

- [STUD-58] - Log Data Viewer - missing sample rate
- [STUD-59] - Log Data Viewer - missing help
- [STUD-60] - Log Data Viewer - display errors after filtering
- [STUD-67] - Audit Report - Well With Logs Below TD displays wrong Failed count
- [STUD-70] - Attribute Manager - Required access and other issues
- [STUD-74] - Audit Report - Settings aren't shared across Studio versions
- [STUD-75] - Attribute Manager - Merge Attribute Count Error
- [STUD-76] - Attribute Manager - Add count of duplicate attributes per group
- [STUD-77] - Attribute Manager - Show UWI information
- [STUD-78] - Attribute Manager - merging error
- [STUD-81] - Installer - certificate error
- [STUD-82] - Seismic Data Manager - Allow empty strings in the bulk rename destination
- [STUD-86] - Well Log Viewer - export button not working
- [STUD-89] - General - Sql server queries time out too soon on large databases

#### Improvement

- [STUD-23] - Attribute Manager - Update UI to be less confusing
- [STUD-73] - Audit Report - Include user settings in audit titles
- [STUD-80] - Seismic Manager - more robust handling of different folder structures
- [STUD-35] - Seismic Manager - Preserve time stamp when distributing changes to Petrel
- [STUD-85] - Audit Report - Prevent double-clicks on Generate Report

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The new functionality in the 2018.16.14 release was:

Bug Fix

- [STUD-58] - Log Data Viewer - missing sample rate
- [STUD-59] - Log Data Viewer - missing help
- [STUD-60] - Log Data Viewer - display errors after filtering
- [STUD-67] - Audit Report - Well With Logs Below TD displays wrong Failed count
- [STUD-70] - Attribute Manager - Required access and other issues
- [STUD-74] - Audit Report - Settings aren't shared across Studio versions
- [STUD-75] - Attribute Manager - Merge Attribute Count Error
- [STUD-76] - Attribute Manager - Add count of duplicate attributes per group
- [STUD-77] - Attribute Manager - Show UWI information
- [STUD-78] - Attribute Manager - merging error

Task

- [STUD-23] - Attribute Manager - Update UI to be less confusing

Improvement

- [STUD-73] - Audit Report - Include user settings in audit titles
- [STUD-80] - Seismic Manager - more robust handling of different folder structures

The new functionality in the 2018.16.14 release was:

Bug Fix

- [STUD-61] - Repository Tag Manager - failed to connect to SQL Server
- [STUD-63] - General - Plugin compiling
- [STUD-65] - Seismic Data Manager - Update md5checksum and cache format
- [STUD-66] - Audit Report - Updating to work with auditSummaryDB
- [STUD-68] - Tag Manager - connection options not working
- [STUD-69] - Attribute Manager - required access level
- [STUD-71] - Audit Report - Unlikely max MD error
- [STUD-72] - Audit Report - logs below TD missing values in spreadsheet

Improvement

- [STUD-64] - GENERAL - OpenRepository crash

The new functionality in the 2017.16.9 release was:

New Feature

- [STUD-57] - General - Make installers Studio Manager version specific

The new functionality in the 2017.16.8 release was:

Bug Fix

- [STUD-45] - General - Direct SQL Server connections weren't working
- [STUD-47] - General - installer version number bug

New Feature

- [STUD-43] - Log Data Viewer - initial prototype



#### Improvement

- [STUD-46] - Audit Report - performance tuning
- [STUD-48] - Seismic Manager - 'flatten' Excel export
- [STUD-49] - Audit Report - tidy up the settings dialogue

The new functionality in the 2017.16.2 release was:

#### Bug Fix

- [STUD-38] - Indexer - stop deleting Audit History

#### Improvement

- [STUD-39] - Audit Report - add ability to exclude wells from audits
- [STUD-40] - Strat Cleanup - display surface names/charts same as in Petrel Strat Cleanip
- [STUD-41] - Studio Deletion Manager - selection of multiple directories

The new functionality in the 2017 -Q2 release was:

#### Bug Fix

- [STUD-9] - Audit Report - complete all audits to Studio 2016 code (api and sql ?)
- [STUD-10] - Attribute\_manager - update to Studio 2016
- [STUD-31] - Audit Report fails to initialize

#### New Feature

- [STUD-8] - Audit\_Report - add sql and API toggle
- [STUD-12] - Attribute Manager - Add toggle and API calls for writing attributes
- [STUD-17] - Delete transaction manager - create
- [STUD-21] - Strat Cleanup - Add Strat Cleanup functionality
- [STUD-33] - Audit Report - add strat audit

#### Improvement

- [STUD-24] - Seismic Data Manager - Add file size summaries
- [STUD-32] - Indexer - drive letter mapping
- [STUD-34] - Seismic Manager - add domain & vintage edit

The new functionality in 2017 -Q1 release was:

#### Bug Fix

- [STUD-30] - Indexer - Not updating Audit History

#### New Feature

- [STUD-2] - Seismic\_manager - Bulk rename seismic
- [STUD-4] - Seismic Data manager - copy Petrel Seismic DM to Studio
- [STUD-7] - Seismic Manager - 2D /3D seismic duplicate check .. md5 hash
- [STUD-15] - Seismic Manager - Cube/Survey compatibility
- [STUD-18] - Repository Tag Manager - Add RoQC licensing into studio
- [STUD-19] - Audit Report - Add Seismic Audits in Audit Report
- [STUD-20] - Audit Report - Transparent translation of connection from api to sql

Improvement

[STUD-13] - Repository Tag Manager

[STUD-22] - Installer - cleanup appdata during uninstall

This release includes the following tools:-

#### Audit Report

Audit Report lists not only errors and potential errors, but also things which may be useful in checking the quality of the data. As well as the individual audits Audit Report generates 'Speedometers' which give an instant visual feedback of the 'goodness' of the data in the different data areas.

#### Attribute Manager

The Attribute Manager tool provides a mechanism to manage your Attributes, whether it is distributing and enforcing corporate standards, merging attributes, removing duplicates or 'empty' attributes or simply bulk deleting unwanted attributes..

#### Repository Tag Manager

The Repository Tag Manager is used to 'Tag' repositories so that they will work with RoQC Tools.

NOTE: if you are using a RoQC 'Global Unlimited' license then the Tag Manager is irrelevant and is removed from the display.

#### Seismic Data Manager

The Seismic Data Manager is used to manage seismic trace data.

#### Strat Cleanup

Strat Cleanup is used to manage well top data. It is used to enforce compliance with corporate stratigraphic names.

#### Studio Deletion Manager

Studio Deletion Manager is used to distribute 'deletions' from Studio to a selection of Petrel projects.

#### Well Log Data Viewer

Well Log Data Viewer is used to display all the well logs in Studio and to optionally display details about the logs.

#### CDF Sync

CDF Sync is used to load data from CDF (currently EDM data) directly into Studio. It can be set to keep identified wells in Studio synchronized with the latest data in CDF.

## **8. Data Manipulation**

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Audit Report is a 'query only' tool and will not make any changes to Studio data. The other RoQC Tools are data management tools that directly change native Studio data.

Depending on what the user chooses to do, the tools may manipulate the following domain objects:-

- Borehole
- Trajectories
- Well Logs
- Well Tops
- Seismic trace data
- Seismic Horizon data

## 9. Custom Domain Objects

RoQC Tools does not create any Custom Domain Objects or custom data in Studio.

## 10. Studio Version

There is a version of RoQC Tools is built against Studio 2018, 2019 or 2020.

## 11. Third Party Libraries

RoQC Tools includes the following third party libraries:-

- DevExpress v.19.2

## 12. Licensing

This version of RoQC Tools for Studio is currently unlicensed.

A Studio Manager license will be required in order to open Studio Manager.

## 13. List of known issues

Reparenting of seismic is currently awaiting an update of the api from Schlumberger.  
Distribution of changes from Studio to Petrel is currently awaiting an update of the api from Schlumberger.

## 14. Support

Information on RoQC Tools and data management workflows is available on [www.roqc.com](http://www.roqc.com).  
Support is available from [support@roqc.com](mailto:support@roqc.com)