

QlikView

Migration Guide

Version 12.0 for Microsoft Windows

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Authored by QlikTech International AB

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1 Introduction

This document describes how to perform a migration from QlikView 11 to QlikView 12 by converting QlikView 11 documents into QlikView 12 apps.

1.1 QlikTech support services

Contact QlikTech if product support, additional training, or consultation concerning application development is needed. Consult the QlikTech homepage for current information on how to get in touch with the support services:

<http://www.qlikview.com>

QlikTech International headquarters:

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For other locations, visit the QlikTech homepage (see above).

1.2 Conventions

Style coding

- Menu commands and dialog options are written in **bold**.
- File names and paths are written in *italic*.
- Sample code is written in `Courier`.

Environment variables

The paths described in this document use environment variables. The variables and the equivalent paths in the Windows operating system are presented below.

Environment Variable	Windows
<i>%ProgramData%</i>	<i>C:\ProgramData</i>

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Environment Variable	Windows
<i>%ProgramFiles%</i>	<i>C:\Program Files</i>
<i>%UserProfile%</i>	<i>C:\Users\<username></i>

1.3 About this document

This document describes how to perform a migration from QlikView 11 to QlikView 12. The contents of the software as well as the document may change without prior notice.

1.4 Additional migration documentation

Besides this document, the following documents provide information on QlikView migration:

- QlikView 12 Server Reference Manual

2 System requirements

To successfully install and run QlikView Server, the requirements listed in this chapter must be fulfilled by the target system.

2.1 QlikView Server

QlikView Server	64-bit (x64)
Platform	Windows 7 ¹ Windows Server 2008 R2 Windows 8 ² Windows Server 2012
Processor (CPUs)	Multi-core x64 compatible processors
Memory	8 GB minimum (depending on data volumes, more may be required ³)
Disk space	500 MB total required to install
Security	Microsoft Active Directory NTLM Third-party security ⁴

¹Recommended for development and testing purposes only.

²Recommended for development and testing purposes only.

³QlikView is an in-memory analysis technology. The memory requirements for the QlikView products are directly related to the amount of data being analyzed.

⁴Third-party security requires QlikView Enterprise Edition Server.

2 System requirements

QlikView Server	64-bit (x64)
Management console	<p>With Windows 7 or 8</p> <p>Windows Server 2008 R2, 2012</p> <p>Microsoft Internet Explorer 9 or 10</p> <p>Google Chrome</p> <p>Mozilla Firefox</p> <p>With Apple Mac OS X</p> <p>Google Chrome</p> <p>Mozilla Firefox</p> <p>Apple Safari¹</p>
.NET framework	4.0
Screen resolution	<p>Desktops/Laptops: 1024x768</p> <p>Tablets: 2048x1536 (iPad 3 and 4) 1024x768 (iPad mini); 1280x800 (some leading Android tablets)</p> <p>Phones: Minimum of 640x960 (iPhone4). Includes 640x1136 (iPhone5) and 720x1280 (Samsung Galaxy S3)</p>
Repository database ¹	<p>SQLite</p> <p>Microsoft SQL Server 2008 R2, 2012, and SQL Express Editions</p> <p>MySQL</p> <p>Oracle 11g</p>
Internet Protocol	IPv6, IPv4

¹Apple Mac products only, no Windows support.

¹The repository databases are listed in order of priority.

3 Overview

QlikView 12 introduces a number of new concepts that are new to QlikView which affect both the end user, developers, and administrators of QlikView. For the purposes of this document we'll look closer at the QlikView 12 Repository Server, apps, objects, and sheets.

The QlikView 12 Migration Tool has been developed to facilitate the conversion of QlikView 11 documents to QlikView 12 apps. However, there are factors that you need to take into consideration before and after you migrate QlikView 11 documents, see *Migration considerations (page 12)*.

3.1 The migration process

The following describes the main steps performed by the Migration Tool when migrating an object from QlikView 11 to QlikView 12:

Note: *QlikView 12 is not backwards compatible with QlikView 11! It is highly recommended that you back up QlikView 11 .qvw files prior to migrating them.*

1. Saves the selected QlikView 11 file in the latest .qvw file format.
2. Creates a <filename>.gunzip folder with sub-folder structure and copies the complete content of the <filename>.qvw to this folder.

Note: *Access and data are saved in .qblob files whiles scripts are saved in .txt files.*

Note: *Properties (apps, sheets, objects), groups, variables, field-properties, reports, input-fields as .json files using id as the filename.*

3. Creates a <filename>.qapp folder side-by-side with the .gunzip folder.
4. Copies the access and data .qblob files and the load script from the .gunzip to the .qapp folder.
5. Converts the QlikView 11 objects, groups, and sheets to QlikView 12 formats.
6. Creates a root object with the sheet order and start sheet information.
7. Moves the migrated <appname>.qapp folder to the QlikView 12 Apps folder.
Default location of the Apps folder is: C:\ProgramData\QlikTech\QV12\Apps.
8. Loads the <appname>.qapp file into the QRS data store together with the data.

Note: *The file version of the app, <filename.qapp>, is retained in the Apps folder.*

9. Creates a report on migration results for objects.
After migration has been completed, a file explorer window opens displaying folder where the

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report is stored, see *Migration report (page 16)*.

Tip: *The report has the same file name as the migrated app.*

See also:

Migrating apps (page 15)

Migration report (page 16)

3.2 QRS overview

The QlikView Repository Service (QRS) manages persistence and replication of QlikView apps and configuration data. The QRS attaches to a repository database (SQLite by default) and contains all settings and application meta data needed for the QlikView services to run and to serve QlikView apps. In addition, the QRS stores the file paths for the Binary Files.

See also:

Migration considerations (page 12)

Apps overview (page 10)

Objects overview (page 11)

Sheets overview (page 11)

3.3 Apps overview

The concept of making an app in QlikView 12 has changed compared to making a document in QlikView 11 both with regard to user experience and the data and access structure in QlikView.

The *.qvw* container in QlikView 11 has been replaced by a *.qapp* container in QlikView 12. By default the *.qapp* file is stored on the QRS at *C:\ProgramData\QlikTech\QV12\Apps*. The name of the *.qapp* container is the same as the **Title** of the app. The *.qapp* containers include all the data, access, object and script information for the app as follows:

- **data** is, managed in cubes, stored in *.qblob* files
- **access** information stored in *.qblob* files
- **object** properties stored in *.json* files
- **scripts** stored in *.txt* files

Note: Each .qapp file contains a root.json file that includes the sheet order and start sheet information. After a migration this information is also shown in the migration report, see Migration report (page 16).

See also:

Migration considerations (page 12)

Objects overview (page 11)

Sheets overview (page 11)

QRS overview (page 10)

Migration report (page 16)

3.4 Sheets overview

In QlikView 12 objects that the user creates are placed on a grid with fixed points that the user can attach the object to. The user can change the size of the object by pulling at the edges or corners of the object and attaching the edge or corner to a point in the grid.

Note: The position of each app is stored in the root.json file.

See also:

Migration considerations (page 12)

Apps overview (page 10)

Objects overview (page 11)

Sheets overview (page 11)

Migration report (page 16)

3.5 Objects overview

In general there is a one-to-one match between objects in QlikView 11 and QlikView 12. For example a Bar chart in QlikView 11 is referred to as a Bar chart in QlikView 12. Some QlikView 11 objects have simply changed name in QlikView 12 others have been incorporated in new QlikView 12 objects.

Note: A few QlikView 11 objects are not supported by QlikView 12, see [Unsupported objects \(page 20\)](#). You will need to create new objects, data connections and visualizations for these objects.

See also:

Migration considerations (page 12)

Apps overview (page 10)

Sheets overview (page 11)

QRS overview (page 10)

Migration report (page 16)

3.6 Migration considerations

The following describes aspects QlikView 12 that you should consider if you are:

- migrating QlikView 11 documents to QlikView 12
- developing or publishing QlikView 12 apps based on migrated QlikView 11 documents

Unsupported objects

Only objects supported by QlikView 12 will be migrated, see *Supported objects (page 19)*. Objects in QlikView 11 documents that are not supported by QlikView 12 will not be migrated. They will however be identified in the migration report, see *Migration report*. If you require a visualization that corresponds to an unsupported object, you will need to create a new visualization in QlikView 12 using objects supported by QlikView 12.

Object positioning on the sheet grid

The QlikView 12 Migration Tool will do a "best effort" positioning of apps on the sheet grid based on how the apps were positioned in the QlikView 11 document. However, if you have many objects in your QlikView 11 sheet or they are of many different sizes then the layout of the migrated objects in QlikView 12 will most likely differ from the original layout in QlikView 11. So you should always check the layout of the migrated apps and rework the positioning of the objects in each sheet as necessary.

Maximum number of objects per sheet

QlikView 12 supports a maximum of 40 objects per sheet. If a sheet contains more than 40 objects the excess objects will not be displayed but they will be migrated and saved to the QlikView 12 Library.

Macros

QlikView 12 support the use of macros. However, the Migration Tool will not migrate macros in QlikView 11 documents. If you require the macro's functionality you will need to create a new macro in QlikView 12.

See also:

Apps overview (page 10)

Objects overview (page 11)

Sheets overview (page 11)

QRS overview (page 10)

Migration report (page 16)

Objects overview (page 11)

Sheets overview (page 11)

Sheets overview (page 11)

Migration report (page 16)

4 Migrating from QlikView 11 to QlikView 12

The following describes how to:

- install the required Migration Tool
- migrate QlikView 11 documents to QlikView 12 apps

The description applies to a single, Master, QlikView Repository Server (QRS) installation. If you have several Master QRS installations, simply repeat the procedures described for each QRS.

4.1 Installing the Migration Tool

The Migration Tool is included in the QlikView Server installation package. For instructions on how to download and install QlikView Migration Tool, please see the QlikView Installation Guide.

4.2 Migrating apps

The following describes how to migrate a QlikView 11 document to a QlikView 12 app.

***Note:** QlikView 12 is not backwards compatible with QlikView 11! It is highly recommended that you back up QlikView 11 .qvw files prior to migrating them.*

Do the following:

1. Start the Migration Tool by running the **migrationUI.exe** file in the **migration binaries** folder.
The Migration Tool window opens.
2. Click **Convert**.
The **Open** dialog box is displayed.
3. Select the QlikView 11 document that you want to migrate and click **Open**.
4. The migration starts and the progress of the migration is shown in the **Progress** text box.
5. After the migration has been completed a file explorer window opens showing the contents of the folder where the migration report is stored.

***Note:** After migration, the resulting apps will be stored under C:\ProgramData\QlikTech\QV12\Apps on the QRS.*

See also:

Migration considerations (page 12)

4 Migrating from QlikView 11 to QlikView 12

QRS overview (page 10)

4.3 Migration report

A migration report is generated for each app that you migrate. After the migration of the app is complete a file explorer window will open showing the contents of the folder where the migration report has been saved.

The migration report itself is divided into the following sections:

- **Report title:** The title of the migration report is the same as the title of the app that was migrated.
- **Summary:** lists the total number of successful conversions, errors, and warnings from the migration.
- **App:** property and attribute information on the *data.qblob*, *access.qblob*, and *script.txt* file as well as each object handled during the migration
- **Groups:** includes property and attribute information on migrated supported groups included in the app
- **Sheets:** includes property and attribute information on migrated supported sheets as well as corresponding information for each object included in the sheet
- **Objects:** for supported objects, includes property and attribute information on migrated supported objects in which objects are grouped by sheet.
- **Unsupported objects:** includes property and attribute information on migrated unsupported objects in which objects are grouped by sheet.

Property and attribute information

The Summary, Groups, Supported objects and Unsupported objects sections include the following information on object properties and attributes:

Property	Description
Name	The name of the file, property or attribute that was migrated
Old value	Original value of a property or attribute in QlikView 11
New value	Value of a property or attribute after migration to QlikView 12
Message	Information, if any, on how the New value was selected
Status	Success or Failed
Position	The position of the object on the sheet grid (if applicable)

Color coding

Property and attribute information is color coded as follows:

Color	Description
Green	Property successfully converted.
Yellow	Conversion generated warning. See the corresponding message field for more information.
Red	Conversion failed. See the corresponding message field for more information.

See also:

Unsupported objects (page 20)

Supported objects (page 19)

Migration considerations (page 12)

5 Known restrictions

The following restrictions are known when migrating from QlikView 11 to QlikView 12 with the current version of the Migration Tool:

- Only documents readable by QlikView 11 will be migrated
- Only objects supported by QlikView 12 will be migrated, see *Supported objects (page 19)* and *Unsupported objects (page 20)*

Note: The migration report includes information on all unsupported objects discovered during migration.

- Macros will not be migrated.

Note: The migration report includes information on all unsupported objects discovered during migration.

- Batch migration of apps is not supported.
- Deployment of apps is not supported.
- QlikView 12 supports a maximum of 40 objects per sheet. If a sheet contains more than 40 objects the excess objects will not be displayed but they will be migrated and saved to the QlikView 12 Library.
- The Migration Tool will attempt to position migrated objects on the according to the sheet layout of the QlikView 11 document.
However, due to the grid system applied to sheets in QlikView 12 the layout of the objects will most likely differ from the original QlikView 11 layout.

5.1 Supported objects

The table below lists the QlikView 11 document objects and their corresponding QlikView 12 app objects.

QlikView 11 object	QlikView 12 object
Bar chart	Bar chart
Button	Utility
Combo chart	Bar chart with lines
Gauge chart	Gauge chart
Line chart	Line chart

5 Known restrictions

List box	List box
Multi box	Filter box
Pie chart	Pie chart
Pivot table	Pivot table
Scatter chart	Scatter chart
Straight table	Table
Table box	Table
Text	Utility

5.2 Unsupported objects

QlikView 11 objects that are not supported by QlikView 12 are listed in the table below.

***Note:** Unsupported objects will not be migrated. All unsupported objects selected for migration will be reported in the Migration Report.*

Unsupported QlikView 11 objects

Block chart	Mekko chart
Bookmark	Radar chart
Current selections Box	Search
Funnel chart	Slider / Calendar
Grid chart	Statistics box
Line / Arrow	Container
Input box	

See also:

Supported objects (page 19)