

Release notes

QlikView / QlikView Server 9.00

Release

This document covers QlikView build 9.00.7119. The release contains all components of QlikView, QlikView Server including all clients and QlikView Publisher.

Cross-release compatibility

There are no known issues using a 9.00 server together with earlier clients (7.52 and later). However, proper client-server compatibility with versions prior to v7.52 cannot be guaranteed.

There are no problems using a QV.EXE version 9.00 and earlier versions in parallel on the same computer.

QlikView has a common file format for versions 6, 7, 8 and 9.

The iPhone client needs to be version 1.1 or later to work properly with a QlikView Server 9.00.

Environment compatibility

Windows 2000 is no longer an officially supported host OS. However, in some cases the QlikView Desktop may still work just fine.

Support material

Most of the new features in QlikView are already documented in the English reference manual PDF and help files found in the beta MSI packages. The QlikView Server reference manual has been updated with all new features and is included in the MSI package.

Bug reporting

All bugs and comments on this release should be reported through our normal support channels, e.g. through a mail to support@qliktech.com.

Backward compatibility issues relating to 8.50 and previous versions

- The Management Consoles for QlikView Server and Publisher have been completely replaced by new QlikView Management Consoles. You must start the QMC in order to register a license for the QlikView Server.
- The AJAX client has undergone major restructuring and extension. AJAX pages do no longer need to be pre-generated as in previous versions. This also means that the URLs to invoke a document with the AJAX client have changed.

- The built-in anti-aliasing on fonts is no longer available. However, proper anti-aliasing through font handling in the operating system still works. For best results, choose a font that has anti-aliasing.
- The function “getExcludedCount” is calculated in a new way: A field value is now considered excluded only by selections in *other* fields. If the field value is grayed due to a selection in the *same* field, it will instead be considered an Alternative, a state that does not add to the “getExcludedCount”.
- The function BitCount has been modified. The function now returns the values interpreted as a signed 64-bit integer instead of as a signed 32-bit integer.

Known issues

The following major issues were identified at release time.

QlikView Desktop

- If domain groups are used in the field NTNAME in Section Access, these will only work for groups in the same domain as the one to which the server belongs. Members of groups in other domains will not be granted access to the document even though they according to Section Access should have access.
- If the data model contains circular references, QlikView will not be able to de-couple one of the tables (introduce “loosely coupled”) to resolve the problem. Instead QlikView may crash. Also an explicit “loosen table” in the QlikView script will fail. The work-around is to remove the circular reference from the data model; i.e. change the names of the linking fields in the QlikView script.
- The Real Time Data Update does not work properly in the 32-bit QlikView Desktop. The update is made correctly, but it is not possible to make selections at the same time. However, it works fine on the Server and on 64-bit QlikView Desktop.
- If an INSERT (using the Real Time Data Update) is made in an empty table after the script has been run, QlikView will become unstable. The work-around is to save and close the application after the script run, and re-open it for the INSERT.
- German, Italian, Japanese and Spanish QlikView Desktop will be shipped with version 8.50 of the QlikView Reference Manual PDF files. The updated manuals will be available with version 9 SR1.
- The Help files are continually updated and the latest versions of these files can be downloaded from the QlikView homepage.

QlikView Clients and client-server functions

- All new features are not yet fully implemented in the Java client.
- If the Real Time Data Update is used on a server and the client uses tunneling to connect to the server, then the server cannot push changes to the client.

QlikView Server, Publisher and Management Consoles

- If the computer on which the QlikView Server services runs is disconnected from your domain controller, you have to run the services as a local user rather than a domain user.
- After a server installation you need to log off and then log in again. The reason for this is that group membership in Windows is defined when you log in and membership in the QlikView Administrators group is needed. If you use a service account that never has logged onto the computer, you will need to reboot to make Windows create that profile.
- Using a QlikView Server without a Publisher license does not allow for configuring your Directory Service Connector. This means that you cannot combine the DMS mode with access to groups. NTFS and DMS to specific users still work as expected.
- If you have Skype installed and it is using port 80 you cannot start the QlikView Web Server. You can either change the port that QWS is running on or stop Skype from using port 80.
- If you have a Microsoft IIS running on Windows XP, you cannot start the QlikView Web Server on port 80. Hence, you either have to disable the IIS or change the port for the QlikView Web Server. For this you need to manually change the config.xml of the QlikView Web Server located by default in “C:\Documents and Settings\All Users\Application Data\QlikTech\QvWebServer”. The Port tag and the TunnelUrl tags need to be changed. If you want to use port 4080, the tags should be:

```
<Port>4080</Port>
```

```
<TunnelUrl>http://_:4080/scripts/QVSTunnel.dll</TunnelUrl>
```

- The Upgrade tool for upgrading your QVPR database is not run automatically after installing. You need to manually start it to upgrade your database before you can start using the software or create a new database.
- Distribution to Organizational Units is no longer supported. When upgrading you will be asked to select a different recipient.
- The documents located in subfolders to the mounted or document folder are not displayed in the correct location.
- Usage of IIS instead of the QlikView Web Server, for hosting the AccessPoint and the AJAX pages, is not yet fully documented.
- The account used for running the services need to be a member of the Local Administrators group.

Recommendations on how to upgrade a Server and Publisher environment

When upgrading an 8.5 installation of both Publisher and Server it is important to do the upgrade in the following order.

- 1 Make a Backup of the Publisher database, the QVPR.
- 2 Uninstall QlikView Publisher 8.5 - Leave the Publisher database, QVPR, in place.

- 3 Uninstall QlikView Server 8.5 - Remove the virtual directories created by the MSI either by selecting the option in the 8.5 un-installation or by manually removing them.
- 4 Run the MSI for Server 9.0 - This will include all the components needed for running both Server and Publisher.
- 5 Run the Upgrade tool to upgrade your QVPR database - It is recommended that you backup your QVPR before running the upgrade tool.
- 6 Log off and then on to the system - This is needed as access to the Management Consoles is decided based on membership of the local group QlikView Administrators, and Windows only checks this during the log on process.

New functionality in QlikView 9

The QlikView development team has again listened to the ideas and suggestions of users, customers and partners. As a result of our development and your comments, we are now ready to present QlikView 9 with more than one hundred new features and improvements.

We believe that there will be something for everyone to enjoy. Most of the new features are presented more in detail below.

Licensing

Test Server license

A special license type has been created for use with QlikView Server for test purposes. A QlikView Server running with such a license will have the full feature set and performance, but the word "Test" will be superimposed on all charts and added to all object captions.

QlikView Server migration mode

A setting has been added in the QlikView Management Console allowing you to temporarily run two clusters of QlikView Server services, sharing the same license during migration between versions.

QlikView Personal Edition

With QlikView 9.0, everyone is free to create QlikView documents for personal use. Hence, a normal QlikView desktop can be run without purchasing a license. There are no limitations, except that it is not possible to open QlikView documents created by other users. Nor is it possible to import an entire layout from an xml file.

Technically, every QlikView document is now saved with a user key – information defining the user and the computer. A QlikView Server or a QlikView User License (a bought license) can open any file, but a user of QlikView Personal Edition can only open files with the correct user key.

Should you change computer, you will not be able to open your old documents with a QlikView Personal Edition. However, you will be asked to recover your files instead. The difference is that a new user key is generated and used for subsequent files. QlikView will accept four (4) user key changes.

Collapse of Developer, Professional and Analyzer

A consequence of the introduction of QlikView Personal Edition is that the difference between Developer, Professional and stand-alone Analyzer is no longer relevant and the three levels have been removed. Everyone has the right to run a QlikView with developer capability.

However, the functionality of corporate users can still be limited through deployment options stored in the registry.

Evaluation

The 15-day evaluation of QlikView Developer has been removed.

License lease from QlikView Server

The standard way to distribute a QlikView User license is to use a Named CAL on a server. The client will then get a license lease from the server, valid for 30 days and enabling all functionality of the QlikView Desktop.

Server and document administration

QlikView Server with integrated reload

QlikView Server now comes with integrated reload scheduling capabilities. The product previously known as Publisher Standard Edition has been discontinued, while the capabilities it offered are part of the standard QlikView Server install package.

QlikView Publisher improvements

The product previously known as QlikView Publisher Enterprise Edition is now licensed as an add-on module to QlikView Server.

The Publisher Module has been optimized for more efficient utilization of multiple execution instances.

QlikView Management Console (QMC)

The new integrated QlikView Management Console is the result of customer feedback and major usability studies. Completely built around modern AJAX technology, it will run in a browser and without reliance on e.g. Microsoft IIS. We have strived to reduce the number of available settings to those most commonly used by customers, thereby producing a cleaner, more intuitive interface.

Even without the Publisher Module, the QMC will feature a page for basic reload scheduling. If the Publisher Module is installed this will be expanded to a wizard style interface for setting up Publisher tasks.

The QMC handles only one instance of QlikView Server service and one instance of the Publisher distribution service.

QlikView Enterprise Management Console (QEMC)

The QEMC gives you full access to all possible settings for QlikView Server and the Publisher Module. It also lets you control multiple instances of QlikView Server service and multiple instances of the Publisher distribution

service from a single management console, by means of an integrated tree-control.

Just as the QMC the QEMC is built around AJAX technology and will run in a browser. Also here extensive usability studies have been done prior to implementation.

For Beta1 QEMC is in alpha stage with only some features developed.

Document default scheduling for Publisher

When designing a QlikView document it is now possible to define a default reload schedule in the Document Properties dialog. This can in many cases reduce the administrative overhead of setting up a Publisher task when adding new documents to the server. From the QEMC you may accept a proposed schedule with a single click.

QlikView Server SNMP support

QlikView Server is now enabled for monitoring from third-party software via the SNMP protocol.

AccessPoint

New QlikView AccessPoint

The all new QlikView AccessPoint has been designed as the principal interface where all users should find and open their QlikView documents. The AccessPoint is available with QlikView Server.

QlikView 9 has the ability to bundle essential document metadata including active sheet thumbnail (optional) so that QlikView AccessPoint can use it for presentation of the documents. The resulting GUI is less technical than its QlikView 8 counterpart and more usable.

Improved load balancing support

QlikView AccessPoint now has the ability to sense current load on several connected QlikView Server services and direct the user to the most appropriate server instance.

Collaboration

Full collaboration support in thin clients

The possibilities to create and share user sheet objects have been extended to the AJAX and Java clients. The new functionality includes the possibility to access sheet object properties.

User sheets

In addition to user sheet objects there is now also the possibility to create user sheets.

Granular sharing

Previously, sharing a user object always meant making it available to all other users of the document on a server. With QlikView 9 it also becomes possible to share to a selected list of users.

Collaboration object undo/redo

The layout undo/redo function has been extended to user objects.

Updated collaboration pane

The collaboration pane has been updated to cater for the new possibilities listed above.

Performance and scalability

Removal of 2 billion records limit

The hard limit of maximum 2 billion records in a table has been removed. The amount of data that can be handled in QlikView 9 is only limited by available RAM and CPU power.

Selection and calculation performance

Major optimizations have been made in the areas of field frequency calculations, show alternatives and for common chart aggregation operations.

RAM utilization performance

Storage and caching algorithms have been optimized to use available RAM more efficiently in QlikView Server.

Real-time data update

Dynamic Data Update

For the first time in QlikView history it is possible to programmatically update field data in real-time without running the script. Via a new API and more or less standard SQL INSERT, UPDATE and DELETE commands, any QlikView field data can be updated directly in RAM. On a server the updated data is pushed out to the clients.

This functionality is freely available in stand-alone QlikView but requires an additional license on QlikView Server.

Integrated reporting

Report distribution from QlikView Publisher

QlikView Publisher can now be used for setting up tasks mailing PDF documents with predefined QlikView reports.

Report printing from AJAX and Java clients

QlikView reports can now be printed from both the java and the AJAX clients.

Script features

New table file wizard

The table file wizard has been completely revised for improved usability and function.

Improved select statement wizard

The select statement wizard now has an improved supports for the generation of multiple select statements.

Load from field

The load statement may now use a previously loaded QlikView field as data source. This feature can be quite useful e.g. when reading data from web pages.

New script functions

The new Attribute function allows you to extract file attributes, such as id3-tags from mp3 files and exif tags from jpg files. The function currently supports attribute extraction from mp3, wma, wmv and jpg files.

The new GetFolderPath function can be used to extract the path to a wide range of Windows standard folders, e.g. My Documents etc.

Store into text file

The store into statement has been amended to allow output to text files with a delimiter of your choice.

New option for log files

An option has been added allowing you to retain multiple versions of script log files, each named with a time stamp.

General features

Clear button

The function of the Clear button in the toolbar has been improved. As default, the Clear button will work just the way the Clear button has always worked. However, you may at any time set any selection state as a start state and use this as Clear. On a server deployment it is also possible for client users to set their own override Clear state.

Export/import document as xml

The possibility to export and import QlikView documents (excluding data) as xml has been added. This feature may e.g. be used for facilitating use of third party version control software with qvw files, eliminating the need to check in very large data sets.

Preview in table viewer

It is now possible to see a sample of table data by right-clicking on a table in the table viewer.

Relative change in input fields

The input syntax in input field cells has been extended, so that you can easily express relative changes and changes in percents.

Document chaining

A new action (see below) has been added making it possible to open a new document from inside another document and apply current selections from the old document to the new document. This feature of course works both in stand-alone operation as when working from a QlikView Server.

Layout features

Actions

Action is a new entity in QlikView 9. They are derived from the old button shortcuts, which they also replace. Apart from offering a much wider range of operations than the old shortcuts (including most common operations on sheets, sheet objects, fields and variables), you may also define a series of operations within a single action.

The introduction of actions should greatly reduce the need for macros, which is good since macros are never efficient from a performance point-of-view.

Gauge, text object and line/arrow actions

The new actions are not restricted to be used on buttons. Also text objects, line/arrow objects and gauge charts can be given actions, which are executed when clicking on the sheet object in question.

Action trigger

The macro triggers of previous versions of QlikView have been replaced by action triggers (see also under actions above). This gives you the possibility to build quite elaborate triggers without the use of macros.

Triggered macros in previous versions will be automatically translated to the triggered actions running the RunMacro action when loaded into QlikView 9.

Search Object

With the new search object you can search simultaneously in multiple fields (or even all fields in the document). Hits are dynamically presented, as you type, in a tree-view list field by field. Selections can then be made in the usual manner.

Search substring highlighting

The search result from a text search in a list boxes or a search objects is now displayed in an improved way: The match of the search substring is highlighted in the result list.

Tree-view list box

This is the logical extension to the hierarchy resolution script prefix introduced in QlikView 8.5. When displaying a field containing hierarchic data in a list box set to this mode, you get a full tree-view structure, where you can expand, collapse and make selections in either nodes or leaves.

Chart features

Indirect set analysis

Set analysis in QlikView 8.5, although very powerful, was restricted to stating direct selections in a field. With the new extensions in QlikView 9 it also becomes possible to state selections in a field based on selections in another field. You may e.g. express selections such as “Select all possible values in Customers based on a Sales last year”.

Mini charts

Sparklines are small line/bar charts inside a straight table cell. You specify an extra dimension, separate from the main chart dimensions, over which the expression is aggregated and plotted as a miniature chart.

Trellis charts

Trellis chart means using the first dimension of a chart as iteration dimension for producing an array of charts. Any type of bitmap chart can be made into a trellis display.

Dynamic chart backgrounds

The background of a chart can now be dynamically calculated. This opens up possibilities e.g. for map backgrounds that update with selections.

Show condition on straight table columns

Instead of just having fixed hide or show status, you may now specify a dynamically calculated show condition for straight table columns.

Clickable URL links in table cells

A new representation mode 'link' lets you transform expression cells in straight and pivot tables into clickable links. The normal selection on click behavior is disabled in such cells. It is possible to specify a display text and a URL for the link in the chart expression. The display text will appear underlined, to indicate link status.

Box plot wizard

A new wizard has been added to facilitate the creation of box plot charts.

Upgraded defaults and themes

QlikView 9 includes several improvements in terms of defaults for new objects and upgraded design themes.

AJAX client capabilities

Pre-generation of AJAX pages no longer needed

The need to pre-generate AJAX pages for QlikView Server has disappeared. QlikView Server will display documents in AJAX when called upon, just like it has always done with the Java and plug-in clients. This takes away most of the migration worries between versions, which have so far been a potential problem for QlikView AJAX deployments.

Collaboration objects

The AJAX client now has full support for all types of user objects and shared objects. The new user sheets are also supported.

Property dialogs

Property dialogs are available for modification of user objects. Instead of just copying the property dialogs from the installed clients, we have designed a

new type of dialogs, which we believe will be easier to use. It is for example possible to have property dialogs open for several objects at the same time and e.g. drag and drop expressions between them.

Layout compliance with installed clients

Additional layout features previously not supported in the AJAX client have been added, e.g. support for

- OnOpen message alerts,
- gauges in table cells,
- images in list boxes,
- semantic list boxes,
- x-axis scroll in charts
- balloon pop-ups in charts,
- right-click menu on cycle icons,
- right-click menu on fast type change icons,
- free-floating current selections window,
- bookmark toolbar,
- maximization of sheet objects,
- automatic truncation of text in cells (as in installed client).

Many graphical improvements have been made, e.g. a complete overhaul of the multi box.

New layout features

In addition to the above new layout features from QV9 have naturally been implemented also in the AJAX client. This includes e.g. the Home button, spark lines in tables, button actions, tree-view list box, clickable URL links in table charts and the new search object.

Report printing

QlikView reports can be printed from the AJAX client.

Performance improvements

The AJAX client has received further optimizations for considerably improved performance in terms of speed and rendering.

Java client capabilities

Collaboration objects

The Java client now has full support for user objects and shared objects. Property dialogs are available for modification of objects as well as undo/redo commands and design grid. The new user sheets are also supported.

New layout features

Additional layout features previously not supported in the Java client have been added, e.g. support for gauges in table cells images in list boxes.

In addition to this new layout features from QV9 have naturally been implemented also in the Java client. This includes e.g. the Home button, spark lines in tables, button actions, tree-view list box and clickable URL links in table charts.

Report printing

QlikView reports can be printed from the Java client.

Performance improvements

The Java client has received further optimizations for improved performance in both communication and rendering.

The UI look has been consolidated to look the same regardless of which platform the client is run under.

Mobile clients

For the first time it will be possible to bring along the power of QlikView analysis on your mobile phone. Our approach is threefold; in order to cover as many platforms and needs as possible.

iPhone client

The native iPhone client available from Apple's AppStore offers a completely new interaction paradigm for QlikView. It optimizes the use of the limited screen real estate while maximizing the use of the iPhone's innovative user interface. Sheets are no longer graphical entities, but rather used as a collection of sheet objects. You navigate between sheet objects using cover-flow, having one object in focus at any time but still getting context and feedback via miniatures of the other objects below. Turn the iPhone to horizontal position to zoom in on an object, shake to clear selections and so on...

Java Mobile client

Whereas the iPhone client will work only on iPhone (and iPod Touch), the Java Mobile (J2ME) client will work on the vast majority of all current mobile (smart) phones, including Blackberry and Symbian phones. The main requirement is that the phone has a Java Virtual Machine. This client is more conventional and presents the QlikView sheets more or less as you know them from our traditional clients. Although the experience will be best on large touch-screens, the client can actually be used even on phones with only a numeric keypad.

AJAX on mobiles

Finally there is the option of running our standard AJAX client on mobile devices. We see a clear trend that more and more mobile phone browsers will handle modern AJAX applications in an acceptable manner. Mobile Safari on the iPhone was the first example, but others have followed. This solution may be considered on selected mobile platforms.

Application Programming Interface (API)

The QlikView API has undergone changes and approximately 170 new methods have been added which reflect the new functionality in version 9. These new methods are listed in the new API guide. The API members listed below are obsolete and should no longer be used. For backward compatibility, they can still be called by adding the string `_OBSOLETE` at the end of the method name.

IChartDimensionDataDef.Hidden
IDocumentProperties.OnMacro_1
IDocumentProperties.OnMacro_2
IDocumentProperties.OnMacro_3
IDocumentProperties.OnOpenMacro
IDocumentProperties.OnPostReduceDataMacro
IDocumentProperties.OnPostReloadMacro
IDocumentProperties.OnSelectionMacro
IExpressionData.Hidden
IFieldProperties.OnChangeMacro
IFieldProperties.OnLockMacro
IFieldProperties.OnSelectMacro
IFieldProperties.OnUnlockMacro
IFrame.OnActivateMacro
IFrame.OnDeactivateMacro
ISheetProperties.OnActivateMacro
ISheetProperties.OnDeactivateMacro
IVariableProperties.OnChangeMacro
IVariableProperties.OnInputMacro
ITextObjectLayout.FgImageSettings
Button.AddField
Button.RemoveField
IButtonProperties.Append
IButtonProperties.Application
IButtonProperties.ExportNumberFormat
IButtonProperties.ExportType
IButtonProperties.FieldList
IButtonProperties.FileName
IButtonProperties.KillOnExit
IButtonProperties.Labels
IButtonProperties.Macro
IButtonProperties.Memory
IButtonProperties.Parameters
IButtonProperties.Separator
IButtonProperties.ShortcutField
IButtonProperties.SuppressMissing
IButtonProperties.Type
IButtonProperties.WorkDir
IDocumentProperties.Font
IDocumentProperties.MinimizedObjectStyle
IUserPreferences.DefaultMinimizedObjectStyle