



Qlik[®] Sense 2.0.1 – Release notes

What's new in Qlik Sense 2.0.1?

This section lists the new and updated features of the Qlik Sense 2.0.1 release. Some of the highlights are:

- Qlik DataMarket
- Data manager
- Compressed data
- Export
- Improved search
- SAML

Updates and new features are divided into the following sections:

- Working with Qlik Sense
- Deploying Qlik Sense
- Administering Qlik Sense
- Building visualization extensions and mashups
- Building server tools
- Building clients
- Creating .NET applications

Working with Qlik Sense

Managing data

Data manager

You can add data to your app from a multitude of data sources using the Data manager. This tool means you don't need to learn a scripting language to get your data into your apps. As you load, you will also get assistance with creating data relationships based on data profiling. Data manager also lets you edit your data selections and add or remove fields easily.

Qlik DataMarket

You can now add data from external sources with Qlik DataMarket. Qlik DataMarket offers an extensive collection of up-to-date and ready-to-use data from external sources accessible directly within Qlik Sense. Qlik DataMarket provides current and historical weather and demographic data, currency exchange rates, as well as economic and societal data.

Creating apps and visualizations

Map visualizations

You can now select to show/hide excluded values and zero values for map visualizations. A map will automatically scale when you resize the window.

Selections in pivot tables

You can now select dimension values directly in the pivot table, without first having to open the dimension drop-down list.

Calculation condition

You can add a calculation condition to most objects (not Filter pane or Text & image). A calculation condition is set as an expression in the properties panel. The object is calculated only when the expression is fulfilled.

Compressed data in scatter plots

The scatter plot object now provides an overview of the density distribution in large data sets. You can zoom, pan and select data to narrow down the data set, while the context is preserved and shown in a mini chart.

User interface enhancements

The following enhancements have been implemented:

- The setting for conditional colors in KPI objects has been improved.
- The gauge visualization now has an arrow indicator for values that are outside of the defined range.
- Column content in table visualizations can now be aligned left, right, or automatically. You can change the setting in the properties panel.
- Improved functionality when making selections in range legends.

- Styling updates to tables and pivot tables.
- You can now convert KPI objects to/from other object types.

Discovering and analyzing

Smart search

The improved search function in Qlik Sense has faster response times, supports searches within selections and is able to search for dimensions. The user interface has been improved and mobile support has been added.

Managing apps

Duplicate apps

You can now duplicate any app you have access to on the hub. You can then work on your own, duplicate, copy. This allows you to enhance a deployed app without having to retire the existing version or interfere with ongoing user access.

Delete apps

You can now delete any unpublished app from the hub.

Sharing and collaborating

Exporting a sheet

In Qlik Sense, you can export an entire sheet as a PDF file.

Exporting a visualization

You can export a visualization as an image or to a PDF file.

Using data storytelling

Replacing snapshots on slides

When replacing a snapshot on a slide, you can now choose to navigate to the sheet and visualization from which the snapshot originated.

Showing slide numbers

When playing a story, you can now choose to display the number of the slide you are on and the total number of slides in the story.

Qlik Sense Desktop

Move apps

When you save an app that you have created in Qlik Sense Desktop, the images included in the app are bundled together with the rest of the contents of the app. This makes it easier to share an app with another Qlik Sense Desktop user.

Deploying Qlik Sense

Planning Qlik Sense deployments

SAML

Qlik Sense supports the use of SAML V2.0 for user authentication.

Qlik Sense Printing Service

Added a service that manages all export-related actions in Qlik Sense.

Qlik Sense Service Dispatcher

Added the Qlik Sense Service Dispatcher (QSD), which is a service controller that is used to launch and manage other Qlik Sense services. The following services are launched by the QSD: Migration Service, Data Profiling Service, and Chart Sharing Service.

New logging framework

Introduced a new logging framework. The legacy logging framework is still available in Qlik Sense, but it is now referred to as tracing.

Guidelines for deploying multi-node sites

Updated guidelines for how to deploy multi-node sites.

Added multi-node deployment scenario that includes a development node

Added a new multi-node deployment scenario that includes information on how to set up a development node.

Added multi-node deployment scenario for geographically dispersed sites

Added a multi-node deployment scenario for geographically dispersed sites.

Backing up and restoring a site

Improved the descriptions of how to backup and restore Qlik Sense sites.

Installing and upgrading

Installing

Installation is now optimized for Central and Rim nodes. Individual feature installation is dependent on the node type selected. Rim nodes can be installed as either Proxy, Engine, Proxy and Engine, or Scheduler where everything that is needed will be installed.

Modifying

The Rim node type can be switched to another type: Proxy, Engine, or Scheduler. Individual features can no longer be added or removed.

Uninstalling

Options have been added so you can remove all data and certificates during Qlik Sense uninstallation.

Updating

An update option is now available when Qlik Sense has been previously installed and a service release (version x.x.x) of the software is available to update the installation. A service release primarily includes software updates and fixes which are then applied to the existing version. Updates are installed without the need to remove earlier updates or the baseline program itself.

Uninstalling an update

Updates can also be uninstalled, in which case the updated version will be reverted back to either the previous service release version or major release version of Qlik Sense, whichever is applicable.

Deploying Qlik Sense sites in cloud computing environments

New user interface

The Sites view in the Qlik Deployment Console (QDC) has a new user interface that makes it easier to manage Qlik Sense sites.

Platform support

The Microsoft Windows Server 2012 R2 platform is now supported for the Qlik Deployment Console (QDC).

.NET framework version

The .NET framework version supported by the QDC is now version 4.5.2.

Amazon Simple Storage Service (S3) bucket

The instructions on how to copy files to the S3 bucket have been removed because the files are now copied automatically.

Firewall rule

A firewall rule, WINRM, has been added in the Security group rules for the Amazon Web Service (AWS) plug-in.

Timeout setting

A timeout setting, Time to wait for a free machine, has been added. The setting is used when the VMware vSphere plug-in is used with a machine pool.

Administering Qlik Sense

Managing a Qlik Sense site

New tables

New, improved tables have been implemented throughout the QMC. You can now select which columns to display and adjust the width of each column.

Search

You can now perform searches in almost all tables in the QMC. Search criteria can be arranged into subgroups and combined with column filtering.

Download of script log for reload tasks

From the QMC, you can now download script log files for reload tasks.

Monitoring a Qlik Sense site

The Qlik Sense monitoring apps have been redesigned with improved navigation and cleaner layout to take advantage of refinements in Qlik Sense logging that provide more relevant and concise data.

Operations Monitor

The Operations Monitor provides a more comprehensive and comprehensible view of reload tasks, user sessions and app usage. New Key Performance Indicators (KPI) make it easy to identify conditions and trends. New sheets and links between sheets make it easier to navigate and locate relevant data.

Troubleshooting Qlik Sense using logs

New help section

New help section that describes how to troubleshoot Qlik Sense using the logs produced by the Qlik Sense services.

Qlik Sense for Developers help

Restructured the documentation around client APIs, Workbench, visualization extensions and mashups.

Building visualization extensions and mashups

Qlik Sense Workbench

Search in Qlik Sense Workbench

Users can now search visualization extensions and mashups for filtering purposes.

Support for multiple users

The Extension editor and the Mashup editor now support if multiple users are editing the same file.

Language support in Single configurator

You can now use the Single configurator to override the default language of Qlik Sense.

Embed code functionality in Single configurator

You can now use the Single configurator to embed auto-generated iframe HTML code.

APIs

Language support in Single Integration API

The Single Integration API can now be used to select the language, overriding the default language of Qlik Sense.

Pivot table support in Backend API

The Backend API now has added support for pivot tables.

Language support in Mashup API

The Mashup API can now be used to select the language, overriding the default language of Qlik Sense.

Building server tools

Qlik Sense Proxy Service API

Proxy settings

Information has been added on the proxy settings in the repository database, and on how to configure virtual proxies.

Qlik Sense Repository Service API

New endpoints

- SAML: Metadata download
- Preview create privilege
- App object: Publish
- App object: Unpublish
- App: Migrate
- App: Get state
- Certificate installation: Install certificate
- Certificate installation: Setup ping
- Synchronization: Create snapshot
- User: Synchronize user
- About API: Get all defaults
- About API: Get type
- About API: Get description
- About API: Get relations
- About API: Get enums

- Data market: Get license
- Data market: Add license
- Data market: Update license

Port added

Added port 4239.

Deleted endpoint

Custom: Get custom deleted.

Parameters added

- Added the ExportFormat parameter to Certificate distribution: Export certificates
- Added the optional {selection} parameter to Security rule: Get attribute values
- Added the optional {appendPrivileges} parameter to License rule: Get associated rules
- Added the optional {appendPrivileges} parameter to Security rule: Get associated rules
- Added the optional {appendPrivileges} parameter to Synchronization rule: Get associated rules

Building clients

Qlik Engine API

App migration

Apps created in a previous version of Qlik Sense are now automatically migrated to the current version of Qlik Sense.

ProductVersion method

The ProductVersion method replaces the QvVersion method, which is now deprecated. Both methods belong to the global class.

Association analysis

The associations between the fields of two tables can be retrieved.

GetAppEntry method

The GetAppEntry method retrieves the meta data of an app.

Images can be embedded in a qvf file

Images can be embedded in qvf files. For example, you can add a thumbnail in a qvf file or embed an image in a generic object.

New structs:

- StaticContentUrl
- StaticContentUrlDef

Updated methods:

- SetAppProperties method
- GetAppProperties method
- GetAppLayout method

GetEffectiveProperties method

The GetEffectiveProperties method returns the identifier, the type and the properties of an object.

If the object contains some soft properties, the soft properties are returned.

If the object is linked to another object, the properties of the linking object are returned.

Adaptive grid

When a generic object with two measures and one dimension contains a lot of data, groups of points (i.e cells) can be rendered instead of points.

A zone of interest can be refined (for zooming in) up to a maximum refinement level or coarsened (for zoom out).

The grid of cells is adaptive (not static), meaning that it adapts to different length scales.

Session apps

Session apps can be created. The session apps are not persisted.

You can create an empty session app or create a session app from a source app.

Improved search

In the previous version of Qlik Sense, the searched selections always erased the current selections. Now, it is possible to keep the current selections and add the searched selections on top.

A search context has been added and the behavior of the search depends on this search context.

The SoftLock parameter of the SelectAssociations method is deprecated and should not be set.

DoReloadEx method

Reloads the script that is set in an app and returns the path to the script log file.

CustomConnector struct

New property qMachineMode.

HyperCube struct

New properties IndentMode and LastExpandedPos.

ImportAppEx method

Imports an app to the Qlik Sense repository. The connections in the app can be excluded from the import.

Creating .NET applications

Qlik Sense .NET SDK

The Qlik Sense .NET SDK now supports:

- Pivot tables
- Maps
- Data Storytelling: The Qlik Sense .NET SDK now supports Data storytelling, including snapshots. You can now do the following: get, destroy, create, and update storytelling objects. SlidItem properties classes have been added for the following: text paragraph slide item, text title slide item, shape slide item, image slide item, and snapshot slide item .
- Calculation conditions

Code samples

The purpose of the sample code provided by Qlik is to demonstrate capabilities and use cases of the API. They are provided on an as-is basis, without any guarantees that they will work in all system configurations and future software releases.

- App preload: The purpose of this sample is to show how the Qlik Sense .Net SDK can be used to achieve fast load times when large apps are opened in the client for the first time.
- Custom desktop: The purpose of this sample is to show how the Qlik Sense .Net SDK can be used to create a custom desktop than launches Qlik Sense as a background process and provides a simple custom GUI for interacting with it.

Improved property access implementation in abstract structure

The Qlik Sense .NET SDK now comes with an improved property access implementation in abstract structure. Instead of casting a generic invalid type cast exception when accessing the same property as two different types, the SDK will try to use the abstract structure type cast operation, and if it fails, cast a custom exception type that points to the root cause of the failure.

Improved handling of paging in hypercube and list objects

The Qlik Sense .NET SDK now comes with an improved handling of paging in hypercube and list objects.

Bug fixes

Qlik Sense 2.0.1 comes with fixes for the issues described below.

Pivot table cuts first row if Indent is deactivated

Salesforce Case ID: N/A

If Indent rows is deactivated and the value in the first row is a number, values could be cut.

Reloading of expression variables

Salesforce Case ID: 00406761

Values of expression variables could in some instances change after reloading the data.

Access is denied for configured ADMIN in section access

Salesforce Case ID: 00413777

The documentation regarding Managing security with section access has been updated.

Sums differ during selection in filter pane

Salesforce Case ID: N/A

Values could differ when selecting and deselecting dimensions in a filter pane.

Incorrect UTC/GMT +00:00 conversion to local time

Salesforce Case ID: N/A

UTC/GMT +00:00 did not always convert correctly to local time.

Header authentication documentation incorrect

Salesforce Case ID: N/A

The documentation regarding Header authentication has been updated.

Character limitation in labels

Salesforce Case ID: 00497083

There is a character limitation in labels and this has now been updated in the documentation.

Unable to open apps after load balancing two rim nodes

Salesforce Case ID: 00477519

There could be a problem opening apps after having load balanced two rim nodes.

Unable to use new virtual proxy prefix

Salesforce Case ID: 00485506

There could be a problem using a newly created virtual proxy on a Central node.

Changing order on more than nine measures in tables

Salesforce Case ID: 00483515

Changing the order of measures in a table did not work as expected when there were more than nine measures defined.

Export data limitations

Salesforce Case ID: 00481536, 00497079

Exporting of data could not be performed on treemaps, pivot tables, stacked bar charts with two dimensions or line charts with two dimensions. The documentation is now reflecting this limitation.

Missing WebSocket information

Salesforce Case ID: 00480711

Requirements for WebSockets were missing in the documentation.

Dimension totals shows wrong values after expanding an dimension

Salesforce Case ID: 00475346

The total value of a dimension in a pivot table could show a different number when a dimension was expanded, compared to the total value shown when collapsed.

Not able to handle large active directories

Salesforce Case ID: 00473854

Handling of very large active directories did not work as expected.

Object title with expressions

Salesforce Case ID: 00512603, 00475336, 00514095

Using expressions in visualization titles did not work as expected.

Service account section greyed out during upgrade

Salesforce Case ID: 00507941

If the service account was formatted as "username@domain", you could get an error stating the username and password were invalid or incorrect.

DocumentTitle function does not work

Salesforce Case ID: 00507941

The DocumentTitle() function did not work correctly.

ODBC Connection – Select data gives faulty connection string

Salesforce Case ID: 00439942

The generated connection string when creating an ODBC connection using the Select Data Wizard could result in a faulty connection string.

Parse (time#)

Salesforce Case ID: 00424194

Parsing a time value that was created using the time# method did not work as expected.

Incorrect translations of "Share" in chart labels

Salesforce Case ID: N/A

The translation of "Share" in chart labels were incorrectly translated in Spanish, German, Brazilian Portugese and Chinese.

Using Alt + s on Polish keyboard

Salesforce Case ID: 00404940

When using **Alt + s** in the Data Load Editor, on a Polish keyboard, a save was triggered instead of inserting the Polish special character “ś”.

Known issues and limitations

The following issues and limitations were identified at release time. The list is not comprehensive; it does however list all known major issues and limitations. The ambition is to have the issues fixed in coming versions.

Clients

- KPI objects that are linked to a sheet cannot be exported.
Workaround: Remove the link from the KPI object.
- Exporting a chart as an image, using a DPI setting different from the default, may result in an unexpected output.
- Custom visualization extensions cannot be exported.
- If you change the orientation of a Gauge chart from Custom > horizontal to Auto, and then export to PDF, the exported version might be depicted in vertical orientation.
- If you export a sheet with a large sum of objects to PDF, or if several users at the same time exports a sheet to PDF, the export task might not finish.
- If you are using the color by measure option in a chart, legend selections might not work as expected.
- A connection that is created in the Add data wizard, and then is deleted in the Data Load Editor, may still be visible Add data wizard.
- If no selections have been applied to an app, it might not be possible to make selections using Smart Search.
- If using the on screen touch keyboard within the Add Data Wizard in docked mode on a Windows Tablet, the keyboard may cover much of the screen making it impossible to edit.
Workaround: Use the keyboard in standard mode (not docked).
- It might not be possible to scroll to the beginning or to the end in the Expression editor when using an Android tablet.
- If running Qlik Sense on a Nexus 5 phone using Google Chrome version 41, input fields will not work as expected.
- Bar charts might not display a legend if using Color by expression.
- On iPhone it is not possible to use toolbar in landscape entirely because the iOS user interface covers it.
- It is only possible to duplicate one app at a time in the hub.
- Generation of the test script by pressing Ctrl+00 does not work in Qlik Sense Desktop environment when using Google Chrome or the QlikBrowser.
Workaround: Launch Qlik Sense Desktop in Internet Explorer.
- There might, in some instances, be missing values when sorting a Treemap on size.
- Maps may take a long time to display if the association between the first dimension and the geographical field results in a large number of items.
- Internet Explorer supports a maximum of six web socket connections.
Workaround: See [https://msdn.microsoft.com/library/ee330736\(v=vs.85\).aspx#websocket_maxconn](https://msdn.microsoft.com/library/ee330736(v=vs.85).aspx#websocket_maxconn).
- If you convert an existing visualization to another type of visualization, the thumbnail in the App overview may not be updated to depict the new visualization type.

Qlik Sense server

- If migration of an app fails, the app cannot manually be upgraded from the QMC.
Workaround: Restart the Qlik Sense Repository Service and then start migrating the app manually from the QMC.
- If port 4949 is in use when the Service Dispatcher tries to start a service, the start of the service will fail and you may end up in an endless loop of attempted restarts.

Multi-node

- If synchronization hangs because of network issues, repository data may differ between the nodes.
Workaround: Restart the Qlik Sense Repository Service on the node where the synchronization hangs.
- If the available disk space on a node is low, synchronized apps can become corrupt or they may not be fully synchronized but still be seen from the Hub. These problems may still be present even after memory has been freed up.
- Multi-node only synchronizes log files when they roll from .txt to .log files. The monitor apps will not receive the data before the log has rolled.

Globalization

- If you are composing script functions in the Data Load Editor using Korean characters, you may experience that the last character disappears after pressing SPACE or ENTER.
- Some Operating Systems have not been updated with the new Russian currency symbol. Apps created in Qlik Sense installed on an Operating System that has the updated currency symbol will show as square or scrambled when the app is consumed on an Operating System that does not have the updated currency symbol.
- When creating a web-file connection, Qlik Sense cannot decode UTF-8 tables with non-ASCII characters in the caption.
- When using Internet Explorer or Chrome, and if the App name is defined with Japanese characters, you may experience that the app name on browser tab is defined with Chinese characters.
- Composing Japanese words is not working as expected in Qlik Sense Browser.
- When having PC locale as Turkish, the currency symbol for lira might be displayed as a square in the Data Load Editor instead of the actual currency symbol.
Workaround: Set the monospace font in the browser.

Qlik Management Console (QMC)

- If you perform Audit with resource filter applied, you may occasionally receive an unexpected result.
- User attributes names when parsing security rules only support characters in the range [A-Za-z][A-Za-z0-9].
- If you, from the QMC or by using the QRS API, change the name of an unpublished app that is currently open in the Hub, the new app name will not be visible until the Hub is refreshed and some errors may occur in the log.
- The error messages from the QMC do not always make sense as the Qlik Sense Repository is not handling error messages correctly.

- If you create your own Content library, the images imported to that library will not be visible when choosing an image for Story, App or Text & Image.
- If you upgrade a Qlik Sense 1.0 server that had task executions, the status codes may show incorrectly due to improvements to task handling.

Qlik Engine

- The Decimal separator `SET DecimalSep=','` may not work as expected.

Qlik Deployment Console (QDC)

- If you are cloning two machines with the same name in vSphere one of them will fail and will not be created in vSphere because it is not allowed to have the same name on two machines.
- The way the QDC stores configuration information, such as sites and transfers, is likely to change in a way which is non-backwards compatible in future releases. We can thus not guarantee that you will be able to access configuration information in future versions of the software.
- The QDC is installed as a service but currently does not support concurrent access by several users, via the user interface or via the REST API.

Qlik Sense APIs

- Mashups that contain extensions with non-javascript files might load with errors if the mashup is deployed on an external web server.
- If you add a dimension by dragging and dropping it onto the Horizontal listbox visualization extension example, or any other custom visualization extensions based on a ListObject, you may receive a *Replace invalid dimension* error message.

Workaround: Using the Add dimension button inside the visualization extension instead.

- Using the .NET SDK `importApp` method will not trigger any migration of the imported app. Apps imported with the `importApp` method will not be displayed in the hub and cannot be opened.

Workarounds:

1. Migrate the app to the correct version in a Qlik Sense Desktop environment before importing it to a server installation.
2. Trigger a manual migration in the QMC of the app that was imported with the .NET SDK `importApp` method. Alternatively, use the REST API.

Installation

- Installation of Qlik Sense and Qlik Sense Desktop requires more free disk space than stated in the installation dialogs. Please ensure to have at least 1 GB of free disk space.
- When performing a silent installation, the argument `-rimnodetype` installs all services even if not all services are specified to be installed.
- If an invalid superuser password is entered, a validation error message is shown after the installation process is complete.
- The information box in the REPOSITORY DATABASE SUPERUSER PASSWORD dialog may be misleading since no username is defined.
- Qlik Sense (server) cannot be installed if a Server of a previous version (QlikView 11.20 or earlier) is installed on the same computer. In that case you will have to uninstall before proceeding with the new installation.

- On a machine with a server operating system it is only possible to install Qlik Sense (server), not Qlik Sense Desktop.

Qlik Sense Analytics Platform (QAP)

- For performance reasons, it is not advisable to use less than 4 cores per node in a QAP deployment.

Qlik Sense Desktop

- Export as an image and Export to PDF will not work from Qlik Sense Desktop if you have Qlik Sense (server) installed on the same machine.
- In Qlik Sense Desktop you have access to the Basic data through Qlik DataMarket.
- If field names contain square brackets, you may get an error message when profiling the data in the Data Manager.
- If you receive an error message when profiling the data in the Data Manager, the error message may remain even though the cause of the error has been resolved.
- Qlik Sense Desktop may not be able to connect to Microsoft Azure databases using the Microsoft OLE DB Provider for SQL Server provider.

Workaround: Use the OLE DB SQL Server Native Client 11.0 provider or the ODBC SQL Server Native Client 11.0 provider instead.

- Sorting by expression in a Pivot table may not work as expected.
- When opening Qlik Sense Desktop, the Welcome message may be displayed even though it has previously been selected not to display the message again.
- Undocking a laptop from a docking station, or docking a laptop onto a docking station, might cause Qlik Sense Desktop to crash if it is running while the docking/undocking procedure is performed.

Workaround: Make sure Qlik Sense Desktop is closed before docking/undocking the laptop from the docking station.

Future consideration

Qlik Sense 3.0 will not support Internet Explorer version 10.