What's new since Qlik Sense 1.0? - Developers

Qlik Sense®
2.0.10
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1 What's new in Qlik Sense 2.0?

1.1 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.

1.2 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

SAML: Metadata download (call 1 of 2)

New endpoint.

See: SAML: Metadata download (call 1 of 2)

SAML: Metadata download (call 2 of 2)

New endpoint.

See: SAML: Metadata download (call 2 of 2)

Select format when exporting certificates

Added the ExportFormat parameter.

See: Certificate distribution: Export certificates

Port added

Added port 4239.

See: Ports overview

Return attribute values from a specific selection set

Added the optional `{selection}` parameter.

See: Security rule: Get attribute values

License rule: Get associated rules

Endpoint deleted.

Security rule: Get associated rules

Endpoint deleted.

Synchronization rule: Get associated rules

Endpoint deleted.

Preview create privilege

New endpoint.

See: Preview create privilege

App object: Publish

New endpoint.

See: App object: Publish

App object: Unpublish

New endpoint.

See: App object: Unpublish

App: Migrate

New endpoint.

See: App: Migrate

App: Get state

New endpoint.

See: App: Get state

Certificate installation: Install certificate

New endpoint.

See: Certificate installation: Install certificate

Certificate installation: Setup ping

New endpoint.

See: Certificate installation: Setup ping

Custom: Get custom

Endpoint deleted.

Synchronization: Create snapshot

New endpoint.

See: Synchronization: Create snapshot

User: Synchronize user

New endpoint.

See: User: Synchronize user

About API: Get all defaults

New endpoint.

See: About API: Get all defaults

About API: Get type

New endpoint.

See: About API: Get type

About API: Get description

New endpoint.

See: About API: Get description

About API: Get relations

New endpoint.

See: About API: Get relations

About API: Get enums

New endpoint.

See: About API: Get enums

Data market: Get license

New endpoint.

See: Data market: Get license

Data market: Add license

New endpoint.

See: Data market: Add license

Data market: Update license

New endpoint.

See: Data market: Update license

1.3 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.

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.

1.4 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.

  SlideItem 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 Qlikis 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.

The following class is obsolete:

Qlik.Sense.Client.Visualizations.MapComponents.PolygonLayer

Replaced with:

Qlik.Sense.Client.Visualizations.MapComponents.Polygon3Layer

2 What's new in Qlik Sense 1.1?

Here are some of the highlights of the new and updated features in the release of Qlik Sense 1.1:

- Qlik Sense Workbench is now available in a Qlik Sense installation
- Snapshots can now be included in mashups.
- Qlik Sense .NET SDK: Support for multiple hyper cubes and list objects in generic objects

2.1 Building extensions with Qlik Sense Workbench

Qlik Sense Workbench

Available in a Qlik Sense installation

Qlik Sense Workbench is now available in a Qlik Sense installation as well as in a Qlik Sense Desktop installation.

Mashup editor

Redesign of the Mashup workbench

Mashup workbench has been re-designed to make it easier to use the generated mashup as a start for more advanced mashups.

Simplified selection making

Making selections programatically in your mashup is simplified by an easier syntax for the Mashup API method selectValues.

Closing session, app connection and web socket

You can close and discard the Session objects created in your mashup. Use the destroySessionObject method in the Mashup API.

You can also close the app connection which also closes the web socket. Use the close method in the Mashup API.

Snapshot support in mashups and single configurator

Snapshots can now be included in your mashups.

- getSnapshot method added to Mashups API.
- Snapshots library added to the Assets panel in Mashup workbench.

Support for code completion

Code completion is now supported in the Mashup workbench.

Master objects in Single configurator

You can now use master objects in single configurator.

Upgrade consideration - new path to require.js

The path to *require.js* has changed. The new path is */resources/assets/external/requirejs/require.js*.

Upgrade consideration - qirby.css name change

The css file *qirby.css* has changed name to qlikui.css and the path is */resources/autogenerated/qlikui.css*.

2.2 Building server tools

Qlik Sense Proxy Service API

X-Qlik-User header changed

Both `<directory>` and `<userid>` must be URL-encoded representations of UTF-8 values.

Code example updated

The code example in the help topic *Connecting to the QPS API using certificates* has been updated.

Port added

Port 4248 has been added.

Qlik Sense Repository Service API

Extension: Create extension with schema

New endpoint.

Extension: Delete extension by name

New endpoint.

Extension: Create or update a file in an extension

New endpoint.

Extension: Delete a file from an extension

New endpoint.

Notification: Add change subscription

Previously referred to as "Notification: Add event listener".

Added new optional parameters: `{changeType}` and `{propertyName}`.

Updated the description of the `{filter}` optional parameter.

Notification: Remove change subscription

Previously referred to as "Notification: Delete event listener".

Security rule audit: Get accessible objects

Changed the return value from `List<IExternalRepositoryObject>` to `List<IRepositoryObject>`.

Ports overview

Added port 4248.

2.3 Building clients

Qlik Engine API

Set dimension limits in pivot tables

Customize OtherTotalSpecProp in the definition of the pivot table to set some dimension limits.

Open an app without loading its data

New parameter *qNoData* to toggle the behavior of the engine when opening an app. If set to true, the app is opened without its data.

Check that a number is correct according to the locale

New CheckNumberOrExpression method.

Replace an object that is published

New methods: CreateDraft method, CommitDraft method and DestroyDraft method.

NxDimension struct

Some properties have changed.

RangeSelectHyperCubeValues method

Added *qColumnsToSelect* parameter to the method *RangeSelectHyperCubeValues* to indicate which dimensions to select.

NxAppLayout struct

The property *qLocaleInfo* has been added to return information about the locale.

GenericObjectLayout struct

The property *qHasSoftPatches* has been added to indicate whether or not the generic object contains some soft properties.

qPseudoDimPos property

The property *qHyperCubeDef/qPseudoDimPos* no longer exists. The position of a pseudo dimension is set in *qHyperCubeDef/qInterColumnSortOrder* instead.

AllowEditMode method

The *AllowEditMode* method has been removed since it was deprecated. This method belonged to the global class.

2.4 Creating custom connectors

QVX SDK

The current version of the QVX SDK is 2.1. It supports Qlik Sense 1.1.

Qlik Sense adaptation

A section has been added to describe how to adapt an existing (QVX SDK version 2.0) or new connector to work in Qlik Sense.

New method added to override generic commands

A new method, HandleJSONRequest, has been added to handle QVX generic commands that are not pre-defined in the QVX API.

2.5 Creating .NET applications

Qlik Sense .NET SDK

Hyper cubes and list objects in generic objects

Support for multiple hyper cubes and/or list objects in generic objects.

New flow added for handling of dynamic data

Introduced new flow for handling dynamic data which will make it possible to support more complex client side management (like type conversion) than allowed in the previous flow.

Deprecated methods

The following methods have been deprecated and marked as Obsolete.

- `Qlik.Engine.Location.Local`
  Instead use: `Qlik.Engine.Location.FromUri`
- `Qlik.Engine.Location.LocalServer`
  Instead use: `Qlik.Engine.Location.FromUri`
- `Qlik.Engine.Location.FromProcess`
  Instead use `Qlik.Engine.Location.FromUri`
- `Qlik.Engine.Location.AppWithName`
  Instead use `Qlik.Engine.Location.AppWithNameOrDefault`

Upgrade consideration - do not use the C# concept dynamic

It is no longer possible to use the C# concept dynamic to set dynamic properties on SDK objects. The new dynamic data handling provides the methods **Set** and **Get** to be used for this purpose.