Qlik Sense
May 2021

Release notes

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The following release notes cover the versions of Qlik Sense Enterprise on Windows released in May 2021. Solved issues and limitations for Qlik Sense Enterprise on Cloud Services are also listed.

What's new in Sense May 2021

Please refer to the What's new sections of the online help for information about the new and updated features of the Qlik Sense Enterprise on Windows May 2021 release:

What's new in Qlik Sense May 2021

What's new in Qlik Sense May 2021 (Developers)

May 2021

Hashing of Proxy Session ID

Starting from May 2021 release of Qlik Sense, following services are by default configured to log a salted-hash of the session ID instead of the actual session ID itself. This is to ensure that sensitive data like the session ID is not included in the logs in order to protect the session logs against session ID local or remote disclosure or unauthorized access.

In order to disable that functionality in affected services, corresponding flags are to be modified or added:

1. For `Qlik Sense Repository Service` modify the value of the below flag from `C:\Program Files\Qlik\Sense\Repository\Repository.exe.conf` file to `false`, in example:

   ```
   <add key="IsSessionIdHashEnabled" value="false" />
   ```

2. For `Qlik Sense Proxy Service` modify the value of the below flag from `C:\Program Files\Qlik\Sense\Proxy\Proxy.exe.conf` file to `false`, in example:

   ```
   <add key="IsSessionIdHashEnabled" value="false"/>
   ```

3. For Qlik Sense ODAG Service add the below flag in C:\Program Files\Qlik\Sense\OdagService\dist\defaults.json file. Flag to be added only if hashing is to be disabled, in example:

   ```
   {
   "IsSessionIdHashEnabled": false
   }
   ```

4. For `Qlik Sense Engine Service` add the below flag in `C:\ProgramData\Qlik\Sense\Engine\Settings.ini` file. Flag to be added only if hashing is to be disabled, in example:

   ```
   [Settings 7]
   QvLogHashProxySessionId = 0
   ```

Delete functionality for Qlik Sense Enterprise Client Managed distributions to Qlik Sense Enterprise SaaS deployments removed

There will no longer be a synchronization attempt towards Qlik Sense Enterprise SaaS if a distribution policy has been changed from evaluate to false, or an app has been deleted on Qlik Sense Enterprise Client Managed.

For the upgrade notes, refer to the "Upgrade notes" section in this document.

Resolved issues

Qlik Sense May 2021 comes with fixes for the issues described below.

May 2021

Key	Release Notes Title	Release Notes Description
QB-1113	Two-dimensional line chart with continuous X axis not stacking data	Fixes so a two-dimensional line chart with continuous X axis now will correctly stack the data for all three of the "Missing values" cases ("Show as gaps", "Show as zeros" and "Show as connections")
QB-1187	Two-dimensional line chart incorrectly showing gaps in lines	Fix for an issue where a two-dimensional line chart with "Missing values" set to either "Show as gaps" or "Show as zeroes" in certain cases incorrectly showed gaps where data points existed
QB-1556	The columns names in Data Manager remain consistent when select data from source	User-defined names for the data fields remain unaltered when update data from the source
QB-2035	OpenDoc requests leading to application sessions not terminated on exit	An openDoc request sent on the data prep service on nodes configured to production nodes, resulted in application sessions no longer being tracked by web socket duration, but instead the default session timeout in the data prep service of 30 minutes. This release removes the openDoc request which sent at the time of web socket creation to allow for the session to be tracked by the duration of the web socket.
QB-2172	Stacked line chart with continuous X axis not interpolating missing data points	If "Missing values" is set to "Show as connections", a stacked line chart with continuous X axis will now correctly interpolate missing data points and connect via them.
QB-2301	Editing filters on multiple tables always showed first table	If trying to edit the filter on different tables it would always show the first table that was edited. It should now properly show the filters for the table being updated.

QB-2343	Two-dimensional line chart incorrectly showing gaps in lines	Fix for an issue where a two-dimensional line chart with "Missing values" set to either "Show as gaps" or "Show as zeroes" in certain cases incorrectly showed gaps where data points existed
QB-2356	Variable Input: Set Expression with special characters ('<','>')	The special characters are encoded for fixing XSS issues, but in this scenario the symbols represent mathematical operations, so the issue occurred. Note: The fix now decodes the text and then value is assigned to the variable.
QB-2413	Support of some http request hearers is improved	Now REST Connector supports new http request headers (which previously caused an error): * if-modified-since * connection * proxy-connection * range
QB-2511	Date Picker: Dropdown is not shown properly if the date picker is placed at bottom.	Fixed to open the dropdown up or down based on the location of the date picker on the window.
QB-2525	About Service is not returning all external URLs used	Response to About Service API GET /api/about/v1/externalUrls was missing 2 external URLs. These are now added - geoAnalyticsMapUrl: "https://maps.qlikcloud.com" and amazonSimpleQueueService: "https://sqs.us-east-1.amazonaws.com".
QB-2589	Write search indexes to temporary local storage	During certain network conditions writing the search index files to the central application storage might fail. With this fix, and the engine setting "CacheSearchIndexBeforeCopy=1" the indexes will be written to local storage and then copied to its correct destination once the write is finished.

QB-2594	Button for Navigation shows as 404 Not Found in published mashup	With this fix, button for navigation is available when publishing a mashup which contains the object.
QB-2607	Fixed subqueries handling	Fixed subqueries handling
QB-2638	ReloadTime() function now gets adjusted by the current timezone configuration.	The issue has been fixed. Result of ReloadTime() is getting adjusted by current timezone configuration on Windows.
QB-2725	Missing loading animation image in container object	When an object inside a container takes some time to load the visualization, it was missing the loading animation image for that object.
QB-2727	Fix for P&L table going blank in fullscreen mode	Fix for P&L table going blank in fullscreen mode
QB-2898	Default bookmark no longer loads a blank page when saved sheet is not available	A default bookmark with a saved sheet location to a sheet that is no longer available will now load the app overview instead of a blank page. Bookmark selections will still be applied.
QB-2904/QB-3020	Data Model Viewer sometimes opens instead of Data Load Editor	In some cases, clicking the navigation menu to open the Data Load Editor would instead navigate to the Data Model Viewer.
QB-2936	Performance fix for some Calculated Dimensions	Performance fix for some Calculated Dimensions when fetching state.
QB-2993	Filterpane objects inside container not displayed correctly	Having multiple filterpane objects inside a container might cause that some of those objects are not visible or partially visible in the container object.
QB-2994	Properties of a visualization inside a container are always displayed	On the property panel, the properties displayed are not displayed of the object selected if a visualization in a container object was previously selected in that sheet, those properties will always be displayed

QB-3034	Allow open of existing session app if user has read access	A user can open an existing session app if user has read rights. This affects e.g. analyzers accessing Dynamic Views.
QB-3035	Users are seeing no sheets available before sheets load	As apps with a larger number of sheets are opened, users will see a "no sheets available" before sheets load and appear. This fix will hide that message and leave the area empty instead.
QB-3036	Pie chart coloring	Fix timing issue for pie chart coloring.
QB-3067	Fix copy sheet for sheets with broken child list	Fix copy sheet for sheets with the object on the sheet and the children of the sheet don't match
QB-3077	App byte_size metadata for fields could become negative for large fields	Fields with many unique values could appear to have a negative byte_size in the app metadata due to a step in the metadata calculation using 32-bit precision. The number of unique values required varied with the data but is in the range 270M to 540M. The entire calculation is now done in 64-bit precision.
QB-3113	Fixed an issue with the custom-tooltip's information being displayed twice when hovering over a shape in the Bullet chart that has a value in the target field of the property panel.	Duplicated custom tooltip information when target value in Bullet chart is set.
QB-3122	Use libcurl with OpenSSL for webfiles in windows	Changed libcurl to use OpenSSL instead of native windows implementation. Libcurl can be toggled off with WebFileUseWinAPI=1 which will allow windows native SSL implementation to be used (windows cert store).
QB-3123	Snowflake driver memory leak fixed	Fixed Snowflake driver memory leak which lead to k8s pod crash if big data is loaded.
QB-3146	Fix display of time data	Fixed to only display date when data is in date or timestamp format and not for time data, for continuous axis in line chart and bar chart

QB-3216	Master dimension title	Fix getting dimension title for a master dimension created through API
QB-3226	Custom numerical abbreviation not working for the funnel chart	Should now apply custom numerical abbreviation for the funnel chart
QB-3237	Container object: Enable link/unlink context menu option	Enable the option to link and unlink objects, that are in a container object, from the context menu of that visualization
QB-3259	'Context' setting has no impact on load balancing rules	Load balancing rules are always evaluated in the context of 'Both in hub and QMC' hence the 'Context' drop-down list is now no longer visible in the UI
QB-3284	Data Load Editor autocomplete pop-up includes a dead link	In Data Load Editor, when typing in function parameters, a autocomplete popup appears with the function title that behaves as a link. This link was broken but should now lead to the help page describing the function.
QB-3320	Number format on custom tooltip master measures fixed	The number format in custom tooltip of not explicitly formatted master items will no longer being affected by measure format in chart.
QB-3329	Added support for DTD header in XML file	Support for DTD header with internal document definition Support for DTD header with document definition in URL
QB-3347	Navigation arrow are hidden when container object is small	When the container object is too small the navigation arrows will be hidden, and the dropdown menu will be shown instead.
QB-3351	Corrected access rights when creating session app from app	Access rights are given as per session app rules when creating session app from app.
QB-3354	Consecutive selections are causing the straight table to display only 1 row with scroll bar	During the update cycle the viewportRowCount setting of the scrollApi was updated using the visible row count instead of the current selection totalRow count - now fixed

QB-3361	Lots of Windows event logs with message: ERROR: null value in column "payload" violates not-null constraint"	This fix avoids indirect logging by a third-party library (SuperSocket), these logs were intercepted by the Sense logging framework, which tried to record a null value in a database not-null column, generating system event logs like: This "2020-12-07 21:23:42 UTC ERROR: null value in column "payload" violates not-null constraint 2020-12-07 21:23:42 UTC DETAIL: Failing row contains (61682991, 2020-12-07 21:14:59.132874+00, DEBUG, 3, QlikSensePrintingWebSocketProxy, AMZCLTVQS02, printing, 26308, null). While the Sense functionality is not affected, the system logs are flooded with new entries. The third-party library logs have been suppressed.
QB-3364	Added connection property for AuthSource	Added connection property for AuthSource
QB-3369	Sankey chart show zero and negative values warning	When only zero or negative values the Sankey chart will show a warning message instead of failing on the render
QB-3379	mashup objects error message text is not rendered from client.json sometimes in IE11	Translator needs to be loaded to make sure we can translate the text. For mashups this is not always the case. When error is thrown we will now wait until the translator is started before we show the message on the screen
QB-3392	Unable to distribute Qlik Sense certificates without administrator privilege	When using an account without administrator privileges to run the Qlik Sense services, it is not possible to distribute Qlik Sense certificates when registering new rim node.
QB-3432	Fix for empty DateFormat	Fixes minor issue when load script contains empty DateFormat

QB-3450	Default condition for security rules associated with the newly created "Stream" or "Content library" resource types have been changed	Default condition for security rules associated with the newly created resources of "Stream" or "Content library" types, have been modified from ((user.name="")) to ((user.userId="sa_repository")). This is to ensure no anonymous users can access those resources unless it's explicitly intentional.
QB-3569	QMC task does not fully clear custom filters	Upon clearing custom filter in QMC, the returned list would not include all available items.
QB-3638	KPI: Fixed errors when updating selections quickly	Increased robustness of the animation algorithm for the KPI
QB-3654	Expression disclaimer and documentation for vDimSet in Trellis container	The expression disclaimer and documentation when using the Trellis container object with vDimSet expression was incorrect. The correct expression is: $(vDimSet) will insert [dimension name]={'dimensionValue'}>} The disclaimer and the documentation will be updated shortly.
QB-3713	Selections on objects inside a container do not hold	The selections made in an object inside a container were reset
QB-3742	Fix the bug where tooltip was showing unnecessary information	Fix the bug where tooltip was showing unnecessary information. This was happening due to the tooltip not being re-rendered when moving away from the incision between areas
QB-3760	Session Timed Out error messages weren't fully translated	The error handler emitter was triggering the `OnSessionTimeOut` event twice, preventing the correctly translated popup error to show for the user - now fixed
QB-3769	Cannot change the order of public sheets	Fix bug preventing reordering of public sheets in cloud

QB-3895	Ensure deterministic table order traverse for keyfields.	This bugfix ensures that the traverse order for the tables of a key field is fully deterministic. This eliminates the problem with aggregations containing references to key fields, being dependent on the declaration order of the tables in the script. In addition, an aggregation over a key field that resides in more than two tables will always be forced to show a distinct result. The strict new table traverse order for key fields may affect legacy calculations that contain an aggregation over a key field. Calculations that previously did return a distinct (by chance) result, will return a non-distinct result instead. Affected calculations will have to be complemented with the distinct prefix in the relevant aggregation where the a distinct calculation is the intended result. The fix is delivered with the opt-out flag SortKeyFieldTables (default value 1).
QB-3899	Making sure KPI gets correct colors	Adds smallPalette to the KPI and makes sure the color picker uses the default color
QB-3907	Optimized memory management during user synchronizations	The Repository service now consumes less memory during user synchronization. Previously such synchronizations could cause a large temporary increase in the size of the repository process in large installations of Qlik Sense.
QB-3924	Qlik Sense: High memory consumption when loading a pivot table	When the customer expanded a pivot table (ExpandLeft), it took a long time and RAM usage increased with 25 Gb before the table was expanded. The RAM went back to normal level after the pivot table was expanded.
QB-3936	Load Data in Data Load Editor fixed when Data Prep Service is disabled	Data can be loaded as expected from the data load editor even if the Data Prep Service isn't running.
QB-3959	Date Picker : Select date range filter isn't working.	The Range selection was not working. Note: After the fix, the Range Selection works as expected.

QB-3989	Address layout issues with longer errors in expression editor	Improved layout for expression edit to allow scrollbars for longer error messages.
QB-3995	Fixed error displayed for some chart when turned off during rendering	Fixed error displayed for some chart when turned off during rendering
QB-4017	Fix a memory leak in some charts	Fix a memory leak in some charts
QB-4146	Ignoring embedded objects	Serialization fix
QB-4152	Only spawn the Cayley.exe process on Qlik Sense Desktop	To avoid passing the database connection string as a command line argument, remove the Cayley process from QSEfW all together
QB-4171	Page is scrolled when a sheet as embedded in an iFrame	A page scroll occurs when a Qlik Sense sheet is embedded as a single integration sheet in an iFrame. When the user scrolls down to the position of the iFrame, a scroll event scrolls the user back up to the top of the parent page.
QB-4202	Disable word wrap for URL representation in straight table	Disable word wrap for URL representation in straight table
QB-4205	Address issue where data model viewer layout not being remembered	Fix the issue where user re-arranged data model viewer tables location/layout are not being remembered by the client.
QB-4276	Linked virtual proxy is initially shown as not linked in QMC table	Due to recently introduced QMC caching functionality, newly created and linked virtual proxy would appear as not linked to any proxy service. This is now fixed, and correct status is shown in QMC.
QB-4280	Corrected REAL formatting on field attributes	The REAL formatting is corrected on field attributes, affecting rounding of e.g. value expressions.

QB-4321	Engine sessions not always closed when user exits application	Fix to sense client to no longer send an openDoc request to the data prep service prior to the user entering data manager. This resulted in the failure of a web socket connection to be created causing engine sessions not being immediately closed. This would result in user selections not being reset when the application is reopened.
QB-4379	Fix Insight advisor handling for null lib 'alt' tag	Fix library items null alt tag handling
QB-4407	Date Range Picker: Range selection not working.	A function has been called on a null object so the Javascript error, the null check has been put in place to avoid this now.
QB-4424	ODAG service API disclosing server hostname	The /about endpoint in the ODAG service API would show the server's hostname when queried. The offending properties are now set to empty strings and the whole config object in its response has been marked as deprecated.
QB-4445	Better responsiveness in Filter panes with frequency count	The dedicated space for the frequency count number is now larger in small filter panes.
QB-4456	ODAG service API disclosing full path to log folder	The /about endpoint in the ODAG service API would show the full path to the service's internal log folder when queried. The offending property is now set to an empty string and the whole config object in the response has been marked as deprecated.
QB-4486	Multi KPI labels are distracted after select and clear selection	Fix deprecated refs

QB-4579	Further improvements to prevent reload tasks from getting stuck. Added mechanism for timeout end retry for repository accesses. New timeout logic does not affect retrieval of all tasks on a startup of the scheduler service. Disabled by default, to enable modify "C:\Program Files\Qlik\Sense\Scheduler\Scheduler.exe.config" file with "<add key="DisableRepositoryAccessTimeoutMechanism" value="false"/>".	Reload tasks get stuck in QMC randomly
QB-4658	Date Picker: Using expression Today()- <number> results in a number not a valid date	Incorrect formatting leads to this number generated instead of date. Note: Formatting has been corrected now.
QB-4728	Slave execution count synchronization is now based on how long the slave has been out of sync, not on time since last execution. Fix ensures that Scheduler service does not create an unnecessary amount of warnings relating to load-balancing of reload tasks.	"Encountered negative task assignment count for slave" errors in System_Scheduler logs
QB-4729	Date Picker: "Start Date" and "End date" not correct.	Fail formatting of dates leads to this bug. Notes: Correct formatting has been restored.
QB-5204	Fix for Insight Advisor Chat data collection opt out issue	Fixed an issue where Insight Advisor Chat may send usage metrics to Qlik servers in cases where this has been deactivated.
EN-3060	OpenSSL	Upgraded openSSL to 1.1.1k

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.

Clients

- Third-party extensions are currently not supported on mobile devices, and the Qlik Trusted Extension Developer program does not accredit extensions for use on mobile devices. Depending on individual device specifications, mobile OS, and size of the Qlik Sense app, items generated using a third-party extension might fail to be visualized properly on a mobile device.
- When consuming Qlik Sense apps using Microsoft Edge browser, touch screen mode is activated by default even when it is run on a non-touch device.
  Workaround: turn 'touch screen mode' off from the navigation menu.
- When consuming Qlik Sense apps using Microsoft Edge browser on touch/hybrid devices, the long-press action does not work. This limitation prevents from accessing functions such as an object's context menu, which on touch mode requires a long-press. This is a Microsoft Edge's issue.
  Workaround: If using a hybrid device, turn the touch mode off and turn it back on again.
- Export as Anonymous does not work for mashups deployed in a domain that is different from the domain in which Qlik Sense is installed. Export only works for Anonymous if the mashup is deployed in the same domain as Qlik Sense.
- When using the new "Load Extension" syntax in the load script, the **Data load editor** syntax completion does not work well after the keyword "Extension" when trying to write the call to an SSE function (AAI function). Nevertheless, the script executes correctly.
- Legend does not show dimension values that are after row number 3000.
- Internet Explorer supports a maximum of six web socket connections.
  Workaround: See https://msdn.microsoft.com/library/ee330736(v=vs.85).aspx
- Exporting a story to PowerPoint limitations:
  - Titles are not rescaled as HTML, font settings are not yet exported.
  - Storytelling effects are not applied.
  - Exported charts may show fixed scroll bars, depending on the export resolution.
- Opening the first application after login takes longer time in in Chrome version 78 or older.
- It is not possible to open the context menu of an orc chart on a touch device.
- When you choose to view data in the context menu in a Dynamic Chart and make a new selection in the app, you need to refresh the browser for the chart to be displayed again.
- Cannot see Dev-Hub with IE11 on QS Sep 2020.
- Workaround to edit properties in an object within a container in edit mode. To change properties of an object in a container the user should change object by clicking on the tab of the object in the container and not in the properties list.

Dynamic views

- Dynamic views that are deleted from one app are also deleted from every other app that was using the same view. There is no work-around for this issue other than to avoid deleting views that may already be in use by one or more other apps because of having made copies of these apps.
- When creating a new dynamic view in the assets panel, if there are one or more existing dynamic views, the dropdown menu item does not automatically change to show the charts of the newly created dynamic view. The user must click on the dropdown menu to choose the newly created view.

- The data for a dynamic view is automatically refreshed (i.e. re-queried from source) whenever a user enters a sheet containing any charts for that view. The same occurs when entering and then returning from the global selections panel as well as when adding a new chart for the same view. To prevent triggering this automatic refresh behavior, users should refrain from performing these actions on the base app.
- The view of a dynamic chart is cleared and overlaid with a message indicating a view constraint violation condition whenever the user changes the selection state of the base app such that the view's constraints are violated. Users should refrain from altering the selection state of the base app at least until they are finished making use of the data in any one of the dynamic view charts.
- The right-click "Go to source" option on a Snapshot slide for a dynamic chart does not select the actual dynamic chart when changing the view to the base app sheet.
- Chart settings changes made to dynamic view charts using the Exploration menu are lost following refresh operation of the view.
- Dynamic Views currently does not support the Trellis extension.

Managing a Qlik Sense site

- The QMC Custom Property Edit page can currently handle a limited number of custom properties. If you want to edit custom property values in the QMC, we recommend keeping the amount of custom property values to a maximum of 500. If you want to just apply values without modifying them, the QMC can handle up to 10.000 custom property values.
- The Qlik Logging Service handles communication outages with PostgreSQL by retrying three times to establish the connection and displays an error if unsuccessful. Communication outages with PostgreSQL can occur for a number of reasons and are not always recoverable in the limited time window of three tries.
- With the current architecture it is not possible, using security rule on HubSection_* resource, to hide "Open hub" link from the "Navigation" menu when accessing app as an anonymous user.
  Workaround: Use reverse proxy configured to redirect "Open hub" link to a preferable landing site
- When removing app objects from an application via QMC's interface, deleted objects are not removed from that application's binary file stored on the file system.
- Logging utility does not support Postgres 12. The utility uses queries that are not compatible with Postgres 12.
- Unable to hide "Open hub" link for anonymous user by using security rule
  With the current architecture it is not possible, using security rule on HubSection_* resource, to hide "Open hub" link from the "Navigation" menu when accessing app as an anonymous user. Suggested workaround is to use reverse proxy configured to redirect "Open hub" to a preferable landing site.

Qlik Sense Desktop

- Sorting by expression in a Pivot table may not work as expected.
- Qlik Sense Desktop can play WebM and Ogg, but not MP4 files due to limitations in Chromium.

Connectors

- REST connector: The Next token pagination option does not work when the pagination token has the same value for each page.
- For connectors in the ODBC Connectors Package, only the data types listed as supported in the online help have been verified to work correctly in the Preview and Script editor. However, ODBC Connector Package does not prevent the loading of other data types, so in some cases unsupported data types can be loaded with the load script.

- ODBC connector: If the user name on the Microsoft Windows system running Qlik Sense Desktop contains letters that are not English alphanumeric characters, database connectors in the ODBC Connector Package do not work properly.
  Workaround: Change the Windows system locale to the match the character set that contains the characters used in the user name. For example, if the System locale on the system running Qlik Sense Desktop is set to English and a user name contains Swedish characters, the System locale setting must be changed to Swedish for the ODBC connector to work properly.
- The Qlik Salesforce Connector does not support PK chunking on sharing objects. PK chunking is supported only on parent objects.
- Apache Phoenix connector does not support non-latin characters in metadata.
  Connector may return a corrupted data or unpredictable query results if running a query with non-latin characters in metadata: table names, column names, aliases, etc.

Cloud deployments and Multi-Cloud

- When downloading a pivot table in cloud environments (Qlik Sense Enterprise on Cloud Services and Qlik Sense Enterprise on Kubernetes), expanded rows are not included but stay collapsed.

Upgrade notes

Qlik Sense September 2020

Announcement: Qlik Sense security update may impact extensions using jQuery

The issue:

The jQuery team announced (https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/) a vulnerability in jQuery versions 3.4.1 and lower where a regex used by the jQuery.htmlPrefilter method that demonstrated the expression "could introduce a cross-site scripting (XSS) vulnerability."

Impact to Qlik customers:

The issue is resolved in jQuery 3.5.0, however, updating to the new version of jQuery may require developers to refactor extensions used in Qlik Sense applications to support the change.

When will the fix be implemented:

- Qlik Sense SaaS received the jQuery update on June 25th, 2020.

- Qlik Sense Client-Managed receives the jQuery update with the September 2020 release.

Action required:

- Extension consumers
  If you are an extension consumer, no action is required by you. However, you may experience extensions used in your Qlik Sense applications cease working after the jQuery update is applied.

- Extension authors
  Extension authors are encouraged to test their extensions using jQuery 3.5.1 to understand and mitigate any impact to customers.

Contacting Qlik:

If you have questions regarding this change and how to perform an impact assessment, please connect with the community on the Qlik Sense Integration, Extension, & APIs forum.

Qlik Connector 7.0.4 for use with SAP NetWeaver

If you use Qlik Sense September 2020 and Qlik Connectors for use with SAP NetWeaver you need to upgrade the connector package to version 7.0.4. Previous versions of the connector package are not supported by Qlik Sense September 2020.

Qlik Sense June 2020

Security filter result caching available for Extension resource

Results of rule engine's evaluation of security rules using Extension as resource filter are now cached. This cache exists in Qlik Sense Repository Service's memory. Using this cache avoids using the rule engine and will result in performance benefits when repeatedly accessing above resource. This improvement can be

disabled by modifying following key in the Repository.exe.config file, by default located in: "C:\Program Files\Qlik\Sense\Repository", followed by a restart of the Qlik Sense Repository Service:

<add key="UseSecurityCacheForExtensions" value="true" />

New Advanced LDAP UDC and support for LDAP Channel Binding and LDAP Signing in Active Directory and Generic LDAP UDCs

Existing Active Directory and Generic LDAP UDCs have been extended with Authentication Type option. This setting is optional and defaults to Anonymous or FastBind based on the credentials specified. Following values can be given as comma separated combinations depending on the security scenario. These values will be XOR-ed for authentication:

Anonymous,Encryption,Delegation,FastBind,ReadonlyServer,Sealing,Secure,SecureSocketsLayer,ServerBind,Signing

New Advanced LDAP UDC available. This UDC adds more settings and options when connecting to LDAP. It supports secure LDAP connection in non-standard LDAPS ports, allows connecting to LDAP with Channel Binding and LDAP Signing enabled and provides options for LDAP Session settings, and more.

For more information please refer to corresponding Qlik Sense documentation.

Security filter result caching available for ReloadTask resource

Results of rule engine's evaluation of security rules using ReloadTask as resource filter are now cached. This cache exists in Qlik Sense Repository Service's memory. Using this cache avoids using the rule engine and will result in performance benefits when repeatedly accessing above resource. This improvement can be disabled by modifying following key in the Repository.exe.config file, by default located in: "C:\Program Files\Qlik\Sense\Repository", followed by a restart of the Qlik Sense Repository Service:

<add key="UseSecurityCacheForReloadTasks" value="true" />

Optimization of security rules evaluation

Objects that are read from the database are cached during the evaluation of the entities for specific calls. If there is more than a certain number of related entities read from the database, instead of caching some, all are read and cached. This limit is called ReadAllThreshold. This improvement will speed up all the initial requests where there is no corresponding cache in place. This improvement can be configured or disabled by modifying following keys in the Repository.exe.config file, by default located in: "C:\Program Files\Qlik\Sense\Repository", followed by a restart of the Qlik Sense Repository Service:

<add key="RulesEngineObjectCaching.Enabled" value="true" />

<add key="RulesEngineObjectCaching.ReadAllThreshold" value="10" />

Qlik Sense February 2020

Windows 7 and Windows 8.1 operating systems

From Qlik Sense February 2020 and forward, Windows 7 and Windows 8.1 are not supported operating systems.

Updated NodeJS version - recreating the Qlik Sense root CA certificate

The February 2020 version of Qlik Sense updates the version of NodeJS to a currently supported version and addresses several security vulnerabilities announced by the NodeJS project. Unfortunately, this requires recreating the root CA certificate generated with versions of Qlik Sense prior to the June 2019 release.

This procedure has been automated as much as possible and is included in the installer, but depending on the deployment, additional manual steps might be required. Please make sure to follow the upgrading instructions in the help:

https://help.qlik.com/en-US/sense-admin/February2020/Subsystems/DeployAdministerQSE/Content/Sense_DeployAdminister/QSEoW/Deploy_QSEoW/Upgrading.htm

For silent upgrades, refer to the following help topic:

https://help.qlik.com/en-US/sense-admin/February2020/Subsystems/DeployAdministerQSE/Content/Sense_DeployAdminister/QSEoW/Deploy_QSEoW/Upgrading-Major-Silent.htm.

Note:

You will also have to replace Qlik Sense root certificate with the newly created one in the following cases:

- Your Qlik Sense deployment is connected with Qlik NPrinting, Qlik multi-cloud setups, or any other external tools or configurations.
- You have configured QlikView Distribution Service for distribution of links to QlikView documents to the Qlik Sense hub.

Enabling Natural Language Processing

This release of Qlik Sense includes the ability to ask natural language questions in the Insights providing the same functionality seen on cloud editions of Qlik Sense since September 2019. The functionality is enabled by default for new installations of Qlik Sense, however, for upgraded environments this will be installed but switched off.

Customers wanting to enable this functionality can do so by executing the following steps on every node in the Qlik Sense cluster:

1. Navigate to "C:\Program Files\Qlik\Sense\CapabilityService" (or corresponding non-default location):

2. Edit the "capabilities.json" file.

3. Add the following flags. Make sure to separate them with comma (,) and enclose within the existing rectangular brackets ([ ]):

```
{"contentHash":"cf15d72343be5e4223b9e8de37e69aef","originalClassName":"FeatureToggle","flag":"NLU_INSIGHTS","enabled":true}
```

```
{"contentHash":"cf15d72343be5e4223b9e8de37e69aef","originalClassName":"FeatureToggle","flag":"NLU_INSIGHTS_VOICE_QUERY","enabled":true}
```

{"contentHash":"cf15d72343be5e4223b9e8de37e69aef","originalClassName":"FeatureTog
gle","flag":"CAO_DATA_VALUES","enabled":true}

4. Navigate to "C:\Program Files\Qlik\Sense\ServiceDispatcher" (or corresponding non-default location):

5. Edit the "services.conf" file.

6. Add "`Disabled=false`" under `[nl-parser]` and `[nl-broker]` sections.

Example:

```
[nl-parser]
```

```
Disabled=false
```

```
[nl-broker]
```

```
Disabled=false
```

7. Restart all the Qlik Sense services.

Note: Qlik Sense Desktop is not affected and the natural language functionality is enabled for both new installations and upgrades.

Qlik Sense November 2019

New load balancing scheme

Qlik Sense November 2019 introduces a new load balancing scheme. In previous versions of Qlik Sense, the algorithm always chose the load-balancing node with the lowest CPU load. The CPU load of all nodes was updated every 5 seconds, which might have resulted in consecutive reloads being distributed to the same node. To improve the handling of frequent consecutive reloads, the algorithm has been changed to select the node with the lower number of running tasks per "Max concurrent reloads" setting, tracking this value on the scheduler master node.

This improvement is enabled by default. If you wish to disable it, do the following:
- Open the Scheduler.exe.config, which by default is located in: "C:\Program Files\Qlik\Sense\Scheduler\Scheduler.exe.config"
- Set "DisableLegacyLoadBalancingBehavior" setting to false
- Restart Qlik Sense Scheduler Service
- Repeat these actions on each node of the cluster running the Qlik Sense Scheduler Service

Handle "invalid cookie bursts" in the Qlik Sense Proxy (QPS) Service

When a multiple cookie request arrives to the Qlik Sense Proxy Service for the same user and authentication method within a small-time frame, QPS reuses the session from the first request. This behavior avoids the creation of additional sessions, and therefore prevents reaching the maximum number of allowed sessions, which would result in temporary lock of that user. See the "Managing a Qlik Sense site" section of "Known issues and limitations" for a known limitation of this change.

This improvement is available in all patches listed below with the default value of 2 seconds **provided corresponding setting is enabled**. If you wish to **enable and** configure or disable it, do the following:

- Open the Proxy.exe.config, which by default is located in: "C:\Program Files\Qlik\Sense\Proxy"
- To **enable and** configure add the string <add key="InvalidSessionRequestBurstLimit" value="00:00:02"/> in the section <appSettings> with the desired value **greater than 0**
- To disable **without removing the flag** add the string <add key="InvalidSessionRequestBurstLimit" value="00:00:00"/> in the section <appSettings> with the value of 0. QPS will fall back to previous behavior with one difference – before it would initially overwrite the existing cookie with an empty one in the first request (Set-Cookie: X-Qlik-Session=), now Set-Cookie header will not be included.
- Restart Qlik Sense Proxy Service
- Repeat these actions on each node of the cluster running the Qlik Sense Proxy Service

Qlik Sense September 2019

Setting a sheet as the app landing page

With Qlik Sense September 2019, you can select a sheet to be the landing page of your app by setting a default bookmark. If in a app you had previously configured the setting "Set selections as app default", the document will now open on the sheet where you have applied the setting instead of opening on the sheet overview. To change this behavior, do the following:

1. Open the app where the "Set selections as app default" setting is applied.
2. Go to the sheet you want to use as the app's landing page.
3. Open the Bookmarks
4. Create a new bookmark
5. Right click on the newly created bookmark
6. Choose 'Set as default bookmark'
7. Repeat this procedure for all apps where the "Set selections as app default" setting is applied.

For more information on this feature, see the documentation page Setting a default bookmark to create an app landing page.

Qlik Sense June 2019

Change of default theme for Single Integration and capability API

With Qlik Sense June 2019 or later releases, the theme for current selection for Single Integration and capability APIs is set to bright by default. Specifically, this change impacts the `'CurrentSelections'` string for getObject, and `currsel` for Single Integration API.

System requirements notes

Please refer to the online help for information about the requirements for Qlik Sense:

System requirements for Qlik Sense

Additional notes:

- On a machine with a server operating system, it is only possible to install Qlik Sense (server), not Qlik Sense Desktop.
- Qlik will deprecate the support for Microsoft Internet Explorer 11 in May 2021.
- Widget support is deprecated and will be removed in a future release.

Windows 7 and Windows 8.1 support ended

From Qlik Sense February 2020 and forward, Windows 7 and Windows 8.1 are not supported operating systems.

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Qlik is on a mission to create a data-literate world, where everyone can use data to solve their most challenging problems. Only Qlik's end-to-end data management and analytics platform brings together all of an organization's data from any source, enabling people at any skill level to use their curiosity to uncover new insights. Companies use Qlik to see more deeply into customer behavior, reinvent business processes, discover new revenue streams, and balance risk and reward. Qlik does business in more than 100 countries and serves over 48,000 customers around the world.

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