



Data Catalyst®

Qlik Data Catalyst for QVDs Release Notes

Product Version: Qlik Data Catalyst for QVDs December 2019

Qlik Data Catalyst for QVDs December 2019 release provides enhancements and bugfixes.

- New Feature: QVD Catalog Full Load, Including Reload or Re-Sync
- Enhancement: Logging for Publish to Qlik Sense
- Enhancement: Display of Qlik QVD Lineage Data
- Enhancement: QVD KPIs revised with QVD-specific components
- Enhancement: Scheduling for QVD Incremental Load

Release Date: December 23, 2019

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December 2019 Qlik Data Catalyst for QVDs Support Matrix

System Requirements	Version
PostgreSQL Metadata Database	Custom QDC PostgreSQL 11.2, see install guide
Apache Tomcat	7.0.94
Java	OpenJDK 8, minimum version 1.8.0_222
Browsers	
Google Chrome	71.0 or higher
Operating Systems	
RHEL/CentOS Linux 7	CentOS Linux release 7.5

New Properties and Behavior Changes

- i. 10433. New `core_env` property captures configurable display name for Qlik Sense Publish Target for lineage display. See also [10433.enhancement](#)
example: `qlik.sense.target.name=QLIK_TARGET`
- ii. 10940. `Core_env` property: `log.purging.date.difference.threshold` now supports purge of QVD import logs as part of schedulable maintenance services. See also [10940.enhancement](#)
- iii. 11588. New `core_env` property for Publish to Qlik Sense, Active Directory (AD) user directory name required for authentication. To use, make sure `createQlikApp.js` and `updateExistingApp.js` are available and executable. Then, restart QDC tomcat server. See also [11588.enhancement](#)
example: `qlik.sense.active.directory.name='EC'`

New Feature

- i. 9515. QVD Catalog Full Load, Including Reload or Re-Sync. This feature is now complete with re-sync option. Administrators can initiate a few different QVD Catalog load options with the following three options. Full Load function can be used in 3 scenarios:
 1. Initial (first time) load for a given Qlik Installation (Incremental Load)
 2. Complete reload if Qlik Data Catalyst and Qlik Installation falls out of sync and there is no need to retain any previously loaded QVD metadata
 3. Re-sync if Qlik Data Catalyst and Qlik Server fall out of sync but Qlik Data Catalyst-owned (mostly business) metadata attributes/properties that will not be recreated during ingestion need to be retained. Data artifacts do not need to be retained as they can be rebuilt as part of the load process (load data checked)

Schedule

Full Reload
Re-Sync

Job Type Incremental Load Load Data

One Time Immediate Recurring

Choose your Schedule

Custom Schedule

0 7 4 22 NOV ? *

Last run at 11-22-2019 04:07:01

Next run at 11-22-2020 04:07:00

Last updated at 12-09-2019 12:21:35

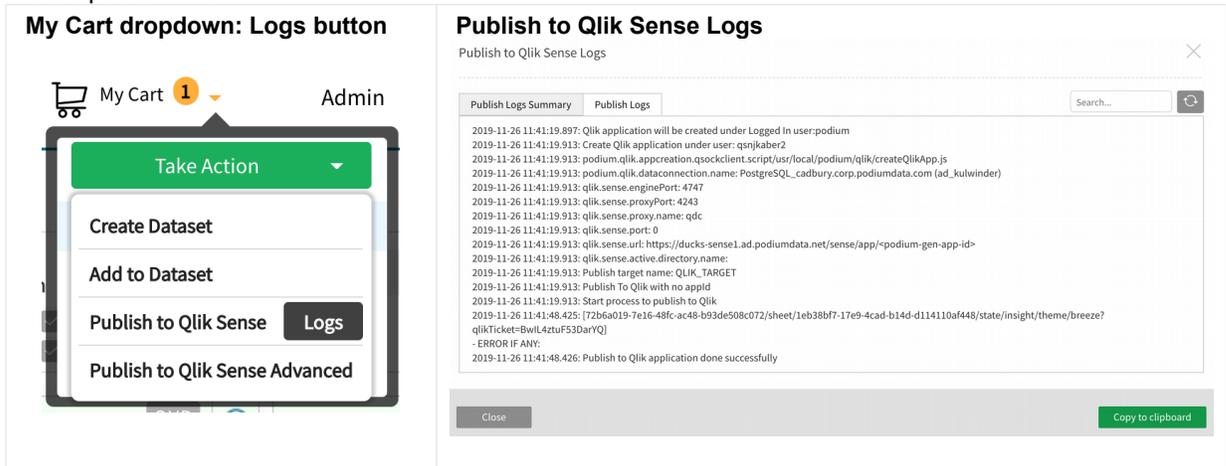
Enable True False

Finish

Enhancements

- i. 9084. Logging, Publish to Qlik Sense. My Cart dropdown now features a button that will navigate users to logging for Publish to QS. From Publish Logs Summary tab, click on the eyeball icon on any row for

Publish Logs for that job. Publish Logs Summary includes Job Name, Username, Status, Start Time, Last Update Time.



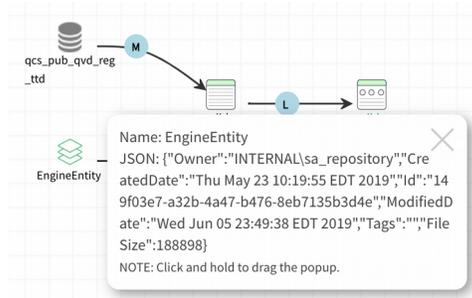
- ii. 10286. Capture of QVD Qlik Lineage. Building on display of source creation [file name] from Qlik Sense QVD XML tag CreatorDoc for Qlik Sense upstream lineage display (delivered in September 2019 release), this enhancement extends lineage support based on the same CreatorDoc element with additional support for the below 2 formats displayed with the QVD app icon:

UUID example: <CreatorDoc>48b12cc7-8731-4c53-aa79-fae536fb8976</CreatorDoc>

Session app example: <CreatorDoc>SessionApp_bc9c9d33-5404-4859-83ad-7581fbf37119</CreatorDoc>

The QVD app name now reflects either the UUID, the Session app, or the file name at the end of the Linux or Windows path.

When a user clicks the QVD app icon, displayed metadata includes the app name and the following details in JSON format: Owner, CreatedDate, ModifiedDate, Tags (applied to the App in Qlik Sense), and FileSize.



- iii. 10315. Display of QVD Lineage data. Lineage data extracted from QVD's XML Creatordoc tag displays information either: Linux path, Windows, App session id, or UUID (universally unique identifier). For QVDs with CreatorDoc information as Windows or Linux path only the filename is displayed as the Name. For QVDs with CreatorDoc information as SessionApp or UUID, the whole SessionApp or UUID is displayed as the Name.

Windows path	Linux path	Session App	UUID

- iv. 10329. Scheduling for QVD incremental Load. Users are able to define a schedule service set my the administrator that will initiate the QVD incremental load. Note that the system does not allow more than one load process to run at a time for a given Qlik installation. If another load is in progress at the

scheduled execution time, the scheduled load will not start. Incremental load shouldn't run until at least one full load is completed for the QVD Installation. This will prevent incremental load from attempting to ingest an unexpectedly large number of QVDs.

- v. 10433. Publish to Qlik Sense Lineage displays with Qlik App icon. The name for the icon is defined through `core_env` property: `qlik.sense.target.name`. The enhancement includes logging that captures "Publish To Qlik" (ex. P2Q_podium_1574765193621) job name for Publish to Qlik Sense and Publish to Qlik Sense Advanced.
- vi. 10940. QVD import logs can now be removed immediately or periodically through two methods:
 - 1. `core-env` property:
`#Active Directory, QVD Import and Sentry/Ranger ACL logs older than this number of days will be deleted. Default: 90 (days)`
`#log.purging.date.difference.threshold=90`
 - 2. Maintenance Service "QVD Import Log Purging". Click on Admin>Maintenance Services "QVD Import Log Purging" is one of the maintenance tasks that can be scheduled for "One Time Immediate" or "Recurring".
- vii. 11131. KPIs for QVDs have been rescoped to include data inputs not previously available. For example, Operational KPI for QVDs update when a QVD sync is run to reflect QVD changes in Qlik Data Catalyst. QVD KPI popularity weightage has also been adjusted to better reflect usage relevant to QVDs. See [11131.detail](#) for updated QVD KPI calculations.
- viii. 11173. Lineage graph and object-level JSON is now available from entity grid dropdown in Discover.
- ix. 11588. New `core_env` property (`qlik.sense.active.directory.name`) found in Qlik Sense Publish Capability section must be specified in `core_env.properties` file once. This enhancement saves the user from having to manually update `createQlikApp.js` and `updateExistingApp.js` script files with the user directory name. This enhancement 1) further automates Publish To Qlik configuration, 2) allows Publish To Qlik configuration to persist upon upgrades; before this enhancement these settings had to be re-configured upon every upgrade, and 3) centralizes Publish To Qlik properties into the QDC primary configuration file.

Bug Fixes

- i. 11258. Publish to Qlik Sense action now displays and is enabled on Datasets dropdown menu in Discover.
- ii. 11296. QVD Import, Qlik Sense Connector definition screen, Select Directory File Browser for either Default QVD Mount Point or QDC Base Directory, upon manual entry of paths not in system for either base directory or Linux path threw an error and did not bring user back to Qlik Sense Connector definition screen. User now is directed back to Qlik Sense Connector definition screen as expected.
- iii. 11297. Security, Active Directory. When an Active Directory user was deleted from Active Directory and a sync process was run then a `NullPointerException` displayed in logs. There were no other consequences. The NPE is no longer displaying in logs.
- iv. 11298. Security, QVD Groups edit displayed a misleading list of Source Connection types that are not supported in Qlik Data Catalyst for QVDs (ex. FILE, JDBC, JSON, etc.) Source Connection types now display QVD connections.
- v. 11299. Qlik Data Catalyst for QVDs, Security, Qlik Sense groups could be deleted. Users should not have been allowed to delete Qlik Sense groups however if a user went to Security and Group section, then selected "View Details" to edit a Qlik Sense group and "Saves" regardless of whether any changes were made, the bulk "Delete" button was now enabled and the user could select the Group and delete it with the bulk "Delete" button. The "Delete" button is now disabled.

- vi. 11309. Datasets feature was not working for Qlik Data Catalyst for QVDs. Users are not able to delete or edit datasets.
- vii. 11312. API CatalogController /v1/pagedQvd response included QVDs without loaded data for connections that have been deleted and re-created. The responses now only include QVDs with data loaded as expected.
- viii. 11409. QVD sources/entities are not getting deleted when their connector is deleted if a data load is in progress or queued up ("INITIALIZED" or "RUNNING" state) when the connector is deleted.
- ix. 11434. Single node. Large QVD import were not persisting, error example, 'ERROR: value "14824881784" is out of range for type integer'. 2GB was the limitation for QVDs or it would fail at import sync step. Large entities are now persisting successfully.

Known Issues

- i. 11823. QVD load fails if multiple QVDs with the same name are loaded from different sub-folders of same parent folder.

Details Appendix

11131.detail

Updated QVD KPI Descriptions and Calculations in Qlik Data Catalyst

Score	Component	Weight	Description/Calculation
Operational	Recency	100%	<p>Computes the difference between now and the last load and compares that to the typical update frequency. This metric will be N/A until QDC sees the first refresh coming from Qlik Sense.</p> <p>Components Last_Load_Date_Time=Last time the QVD was loaded on Qlik Sense First_Load_Date_Time=Time the QVD is synced on Qlik Sense upon QVD ingestion Typical Period (typical interval between updates)=(Last_Load_Date_Time - First_Load_Date_Time)/Number_of_Loads Latest_Period=Now - Last_Load_Date_Time Number of Loads=Number of times the QVD was loaded on Qlik Sense since first QDC ingest If Number_of_Loads=1 THEN RECENCY is N/A If Latest_Period <= Typical_Period THEN Recency = 1 (100%) If Latest_Period > Typical_Period THEN Recency =.5 If (Latest_Period - Typical_Period) / Typical_Period<=0 THEN Recency=0</p> <p>Note: All variables in these calculations refer to QVD generation on the Qlik Sense side, not the loads of QVD metadata into QDC.</p>
Operational Total		100%	
Size	Size Volume	50%	<p>Relative size of the QVD in memory/storage units (file size on disk) (QVD Size - Smallest QVD Size) / (Largest QVD Size - Smallest QVD Size) If all QVDs are the same size (unlikely)=1</p>
Size	Size Records	50%	<p>Relative size of the QVD in number of records (# records in QVD - smallest # records across all QVDs) / (largest # records across all QVDs - smallest # records across all QVDs) If all QVDs have the same number of records (unlikely)=1</p>
Size Total		100%	<i>(Replaces Quality Metric applied to Non-QVD entities)</i>
Popularity	Number of Tags	15%	<p>Count of tags compared to average (includes both tags imported from Qlik and tags created in Qlik Data Catalyst) Average Tags=Total # of tags across all QVDs / # of QVDs $0.5 + ((\# \text{ tags for the QVD} - \text{Average_Tags}) / \text{Average_Tags}) * 0.5$ If above is greater than 1 set to 1 If Average_Tags is 0 set to 0</p>
Popularity	Number of Comments	20%	<p>Count of comments (Qlik Data Catalyst Comments, previously known as "blog") compared to average Average Comments=Total # of comments across all QVDs / # of QVDs $0.5 + ((\# \text{ comments for the QVD} - \text{Average_Comments}) / \text{Average_Comments}) * 0.5$ If above is greater than 1 set to 1 If Average_Comments is 0 set to 0</p>
Popularity	Number of Publish Jobs	65%	<p>Count of Publish jobs executed including QVD compared to average Average Publish Jobs= Total # of executed Publish jobs across all QVDs / # of QVDs $0.5 + ((\# \text{ executed Publish jobs using the QVD} - \text{Average_Publish_Jobs}) / \text{Average_Publish_Jobs}) * 0.5$ If above is greater than 1 set to 1 If Average_Publish_Jobs is 0 set to 0</p>
Popularity Total		100%	