

# License Metrics

## Qlik Value-Add Products

Qlik Alerting™, Qlik® Application Automation, Qlik AutoML™, Qlik Catalog®, Qlik Connector for SAP®, Qlik GeoAnalytics®, Qlik Lineage Connectors, Qlik NPrinting®, and Qlik Reporting®

The License Metrics are part of the Documentation for Qlik Alerting, Qlik Application Automation, Qlik AutoML, Qlik Catalog, Qlik Connector for SAP, Qlik GeoAnalytics, Qlik Lineage Connectors, Qlik NPrinting, and Qlik Reporting Service, and govern the use of these Qlik® products.

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## 1. Qlik Alerting

**Overview.** Qlik Alerting is an intelligent alerting platform for Qlik Sense Enterprise on Windows. Qlik Alerting customers must be utilizing a currently supported version of Qlik Sense Enterprise on Windows. Qlik Alerting capabilities are associated with the Qlik Sense Enterprise license as shown below.

Qlik Sense Enterprise License Type	Qlik Alerting Capabilities
Professional User	Create/receive all alert types
Analyzer User	Create self-service alerts and receive all alert types
Analyzer Capacity	Receive broadcast and notification alerts only (via e-mail only)
Token - User Access Pass	Create/receive all alert types
Token - Login Access Pass	Not recommended as one Login Access Pass is consumed per each alert generation, but can create/receive all alert types.
CPU Core-based users	Create/receive all alert types
Any Recipient (No Qlik Sense License)	Receive broadcast and notification alerts only

### Alert Types

- **Data Alerts:** Alerts based on the data in Qlik Sense applications using simple or complex conditions, notifying users when data changes.
  - Self-service alerts: A data-based individual alert created by a user for personal delivery and not enabled for sharing with other users.
  - Distributed alerts: A data-based alert created by a Professional User with one or multiple recipients:
    - Broadcast: Every recipient receives the same alert message.

- Managed: Every recipient receives the alert based on their data privileges on the source application.
- **System Alerts:** Alerts that let users know about important system events that have taken place (unsuccessful application reloads, etc.).
- **Notifications:** A notification whereby every recipient receives the same message created by an administrator.

### Deployment Types

- **Single Deployment per Qlik Sense Enterprise Site:** Each Qlik Alerting Server may be connected to one unique Qlik Sense Enterprise Site. For purposes of these License Metrics, a Qlik Sense Enterprise Site means deployment of a single Qlik Sense Enterprise license key within a single node or multi-node instance of Qlik Sense Enterprise on Windows. Deployment prerequisites are set forth in the Qlik Alerting Product Documentation at help.qlik.com.
- **Test and Development Sites:** Each Qlik Alerting Enterprise Server license for Professional, Analyzer or Analyzer Capacity users includes one test site and one development site during the subscription period only. Test and Development Sites for Token or CPU Core sites are not included. Test and development sites may not be used for production purposes or for disaster recovery.

## 2. Qlik Application Automation

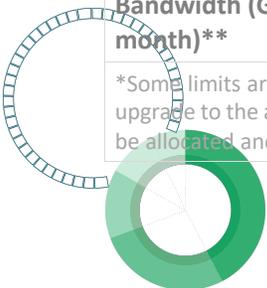
Qlik Application Automation is an included feature with a Qlik Sense Enterprise (“QSE”) SaaS subscription and may be upgraded or purchased separately.

### A. Upgrade Options for QSE SaaS

The table below shows the permitted use for each tier of Qlik Application Automation.

	QSE SaaS (Included)	Start Up	Scale Up	Premiere	Premiere Expansion	Enforced*
Number of Tenant Automation Runs (per month)**	5,000	20,000	60,000	200,000	Additional 200,000	No
Standard Connectors	All	All	All	All	-	-
Number of Users	All SaaS Users	All SaaS Users	All SaaS Users	All SaaS Users	-	Yes
Connections per User**	Unlimited	Unlimited	Unlimited	Unlimited	-	No
Automations per User	10	Unlimited	Unlimited	Unlimited	-	No
Maximum Concurrent Tenant Automation Runs	10	10	15	30	-	Yes
Average Concurrent Automation Runs (per month)	5	5	5	15	-	No
Bandwidth (GB per month)**	1,000	1,000	2,500	5,000	-	No

\*Some limits are not enforced within the product and actual use may exceed stated limits. Repeated overage will require an upgrade to the applicable level corresponding with actual use. In a multi-tenant entitlement deployment, concurrent runs may be allocated and deployed by Customer across all tenants only up to the total contracted entitlement, and usage in excess of



contracted entitlement is subject to additional fees

\*\* As used above, “Automation” means a workflow made by or for a Customer. “Automation Run” means one execution of an Automation (manual run, test run, scheduled run, triggered run or webhook run). “Connection” refers to the number of connected data sources or Third Party Applications. “Bandwidth” is measured in GB for Automation Runs (both uploading and downloading when using a connection to Qlik Application Automation or a Third Party Application). “Third Party Application” refers to a third-party product, API and/or any technology, tool, application, integration, platform or other software or system, which is not provided by Qlik that interoperates with Qlik Application Automation.

## B. Standalone

Qlik Application Automation runs on the Qlik Cloud platform. Standalone Qlik Application Automation subscriptions will include five (5) Qlik Sense Enterprise SaaS Professional Users included. Any additional users will require a separate Qlik Sense Enterprise SaaS subscription.

## 3. Qlik AutoML

Qlik AutoML provides customers with the ability to train and deploy machine learning models on Qlik Cloud. Qlik AutoML is sold by capacity, which is measured by the number of deployed models and the size of the dataset that can be used. Deployed models are counted by the number of models in development or in production. Dataset sizes are measured by the number of rows multiplied by the number of columns. Concurrent tasks refers to the number of experiment training jobs a tenant can perform in parallel. Qlik AutoML is included with a Qlik Sense Enterprise (QSE) SaaS subscription with the limits set forth below. Additional capacity may be purchased by tier for customers that require higher levels of either deployed models, concurrent tasks, or dataset size.

In a multi-tenant entitlement deployment, capacity and user-based entitlements may be allocated and deployed by Customer across all tenants only up to the total contracted entitlement. Usage in excess of contracted entitlement is subject to additional fees.

	QSE SaaS (Included)*	Start Up Tier	Scale Up Tier	Premier Tier	Premier Tier Expansion**
Deployed Models	2	5	10	20	20
Concurrent Tasks	1	5	10	15	15
Dataset Size	100K	1M	10M	100M	-
Advanced Features	No	Yes	Yes	Yes	-

\*Subscriptions for Start Up, Scale Up and Premier Tiers include 5 QSE SaaS Professional Users.

\*\*Premier Expansion requires a Premier subscription and provides incremental additional deployed models and concurrent training on top of the existing capacity for the Premier tier. There is no increase in dataset size, which remains limited to 100M.

## 4. Qlik Catalog

**Overview.** Qlik Catalog (formerly Qlik Data Catalyst) builds an enterprise-scale repository of data for analytics. It includes automated data preparation and metadata tools to streamline the transformation of raw data into analytics-ready information assets. Qlik Catalog can be used with Qlik Sense Enterprise Client-Managed, QlikView or Qlik Data Integration. Minimum training and implementation services are required for new purchases.

**Metrics.** Qlik Catalog is licensed per site and includes up to 1,000 Tables in a production environment with the option to purchase additional capacity in packs of 1,000 Tables. A test and development site is included with the same configuration as the production site. Test Sites may not be used for production purposes or for disaster recovery (DR). DR use requires a license for a separate production instance. The DR instance may be installed and ready to run, but cannot be live and in use prior to the production site being shut down.



## 5. Qlik Connector for SAP®

The SAP Connector is available for Qlik Sense Enterprise (“QSE”) Client-Managed and QlikView. A separate connector is required for use with QSE SaaS. Connectors are licensed based on the Qlik Sense or QlikView configuration.

QSE Client-Managed	QSE SaaS	QlikView
One connector is required for each Qlik Sense site.	One connector is required for each QSE SaaS tenant.	One connector is required for each QlikView cluster or QlikView Desktop <sup>1</sup> .

## 6. Qlik GeoAnalytics

Qlik GeoAnalytics enables geographical analysis with both Qlik Sense and QlikView. The product consists of (i) extensions that provide geographical visualizations, (ii) a Qlik GeoAnalytics Connector and (iii) for Qlik GeoAnalytics Enterprise Server, a Qlik GeoAnalytics Server. The Connector is used to load data from supported data sources and enables several analytical operations using a wizard that can be applied to external data or data that is already loaded in a Qlik application.

### Qlik GeoAnalytics & Geocoding Products

PRODUCT	DESCRIPTION	LICENSE
Qlik GeoAnalytics Base	<p>The Base Software<sup>2</sup> consists of extension objects used in the client and a connector. The connector and the extensions communicate with an external Qlik-hosted server that does all lookups and operations and sends back the results.</p> <p>Qlik GeoAnalytics Base includes a user-selectable feature, Qlik GeoAnalytics Plus, that can be installed to provide geo calculations on premise (except routing and location lookups) and access to local resources.</p>	<p>Qlik GeoAnalytics Base is offered as a subscription.</p> <p>Each Qlik GeoAnalytics Base license may be used with multiple QlikView and/or Qlik Sense servers.</p>
Qlik GeoAnalytics Enterprise Server (includes a Qlik GeoAnalytics Test Server)	<p>The Enterprise Server Software includes all of the features of Qlik GeoAnalytics Base plus a local server that provides background maps, location lookups and geo-calculations (serving of satellite imagery is performed remotely).</p>	<p>Qlik GeoAnalytics Enterprise Server is offered as a subscription. Customers with a perpetual license to GeoAnalytics Base may upgrade their perpetual license to GeoAnalytics Enterprise Server.</p> <p>Each Qlik GeoAnalytics Server is separately licensed, but one Qlik GeoAnalytics Enterprise Server can serve multiple QlikView and/or Qlik Sense servers.</p>

<sup>1</sup> For existing QlikView customers with Publisher licenses, one connector is required per Publisher, irrespective of the number of QlikView servers.

<sup>2</sup> GeoAnalytics data is included without additional charge for so long as i) Customer maintains a subscription, or remains current on Maintenance with a perpetual license, and ii) Qlik continues to make such data generally available.

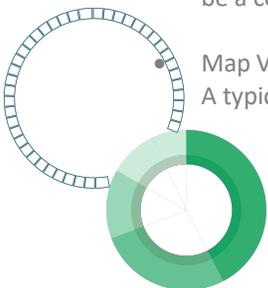
PRODUCT	DESCRIPTION	LICENSE
Qlik GeoAnalytics Test Server	The Test Server Software includes all of the features of Qlik GeoAnalytics Enterprise Server but is limited to use only in a Test Environment.	Test Server is a server license that provides an environment separate from production to use for data validation, application testing, and preparation/migration of Qlik Applications to new versions and/or releases of QlikView or Qlik Sense.
Qlik Geocoding	Add-on package for Qlik GeoAnalytics Base and GeoAnalytics Enterprise Server that provides conversion from street addresses to geographical coordinates, and vice versa.	Qlik Geocoding requires Qlik GeoAnalytics Base or Qlik GeoAnalytics Enterprise Server, and is licensed as a fixed quantity of geocoding lookups that must be exercised within one (1) year of purchase.
Qlik GeoAnalytics for OEM	Same as Qlik GeoAnalytics Base.	Qlik GeoAnalytics for OEM is licensed as an annual subscription.
Qlik GeoAnalytics Enterprise Server for OEM (includes a Qlik GeoAnalytics Test Server)	Same as Qlik GeoAnalytics Enterprise Server.	Qlik GeoAnalytics Enterprise Server for OEM is licensed as an annual subscription.
Qlik Geocoding for OEM	Same as Qlik Geocoding	Qlik Geocoding for OEM requires Qlik GeoAnalytics for OEM or Qlik GeoAnalytics Enterprise Server for OEM, and is licensed as a fixed quantity of geocoding lookups that must be exercised within one (1) year of purchase.

**Test Environment.** A Test Environment provides an environment separate from production to use for data validation, application testing, and preparation/migration of QlikView/Qlik Sense documents including geospatial information.

**Qlik GeoAnalytics Operations.** Qlik GeoAnalytics includes geographic analysis operations when data is loaded into Qlik Sense or QlikView. Depending on the product, there are certain restrictions in the following categories:

- **Data Source per Operation.** This is related to the size of size of the input data to each operation call. The Connector supports different input data types, but the input data is typically a loaded table.
- **Data Source for Route-Based Operations.** The route operations are: “Route,” “TravelAreas” and “Closest” (all transportation modes except “Bird”).
- **Location Lookups.** These are operations that use the included location database, such as “Standard Areas and Points.” A lookup occurs when a place name is translated into an area or a point. A place name can, for instance, be a country, county, city, zip code or an airport.

- **Map Views.** Each Map View is a map transaction that is used to load a map image or tile into the browser window. A typical map consists of ten (10) tiles.



PRODUCT	MAXIMUM DATA SOURCE PER OPERATION	MAXIMUM DATA SOURCE FOR ROUTE-BASED OPERATIONS	LOCATION LOOKUPS	MAP VIEWS
Qlik GeoAnalytics Base or Qlik GeoAnalytics for OEM	20,000 rows	400 rows	50,000 rows	1 million per month per Customer or OEM Partner
Qlik GeoAnalytics Enterprise Server or Qlik GeoAnalytics for OEM – Enterprise Server	Up to available memory	Unlimited (available memory)	Unlimited (available memory)	Unlimited (available memory)

**Qlik Geocoding Operations.** Qlik Geocoding provides geographical (GPS) coordinates corresponding to a location, such as a street address and vice versa. Address and key information is sent to remote servers for each lookup request. Each address or individual coordinate set sent to the Qlik Geocoding server constitutes a lookup request, regardless of the extent to which resulting data is returned (e.g. an invalid or incomplete street address or GPS coordinates may result in non-discrete data or no data at all being returned). Up to five thousand (5,000) lookup requests may be sent in a single call to the Geocoding server.

Geocoding is sold as a fixed quantity of lookup requests, where such quantity of lookups must be used within one (1) year from the date of purchase. Unused lookup requests remaining as of the date of expiration are forfeited.

**Cold Standby for Qlik GeoAnalytics Enterprise Server.** Qlik GeoAnalytics Base and Enterprise Server licenses can be installed on as many servers as required for backup or disaster recovery purposes. However, no more than the licensed number of GeoAnalytics Software may be running at any given time. Thus, a cold standby environment can be installed and ready to run, but cannot be live (that is, the services cannot be started) and in use prior to the live environment being shut down.

## 7. Qlik Lineage Connectors

Qlik Lineage Connectors are a software tool that is used with Qlik Sense Enterprise (“QSE”) SaaS to send lineage data from on-premise environments to Qlik Cloud. Connections to Qlik Sense Enterprise Client-Managed, QlikView and Qlik NPrinting are included with a QSE subscription. All other sources are available as a paid subscription on a per-tenant basis. To enable the connection between Qlik Lineage Connectors and QSE, the tenant administrator utilizes an API key to authenticate the communication between the on-premise environment and Qlik Cloud.

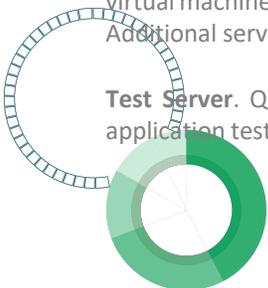
## 8. Qlik NPrinting

### A. Qlik NPrinting

Qlik NPrinting is software that enables report generation, distribution and scheduling within QlikView® and Qlik Sense® Client-Managed.

**Server.** Qlik NPrinting Server license includes a single engine to be installed on one Server. For purposes of these License Metrics, a “Server” means a single physical or virtual machine instance capable of running server software. For clarity, each virtual machine, hardware partition, or blade on which Qlik NPrinting Server is running is considered to be a separate Server. Additional server engines may be added for a fee.

**Test Server.** Qlik NPrinting Test Server provides an environment separate from production to use for data validation, application testing, and preparation/migration of QlikView or Qlik Sense documents to new versions and/or releases of Qlik



Products. Qlik NPrinting Test Server comes in two editions, Qlik NPrinting Test Server and Qlik NPrinting SBE Test Server, both of which have the same features and limitations as the corresponding production servers. Test Servers are marked in the License Enable File (LEF) to indicate a Test Version.

**External Use.** NPrinting reports may be distributed to external users. The NPrinting software may not be distributed to external users and may only be installed on servers owned by the customer. However, customers may permit external users to access the Newsstand on the NPrinting server.

## B. NPrinting Version 17+

Qlik NPrinting 17+ is licensed as a server and does not require a separate license for a Designer. Version 17+ supports the ability to schedule reports over multiple engines (or servers), if additional engines are licensed. Version 17+ does not impose limits on the number of recipients, reports, triggers or developers. With Qlik NPrinting 17+, there is no requirement to have a QlikView Local Client licensed on the same machine as the QlikView NPrinting Designer. However, the account used for running Qlik NPrinting needs to be allocated a QlikView Local Client or a Named User CAL licensed through the QlikView Server. There is no requirement to allocate a Qlik Sense user license to the account used for running Qlik NPrinting.

**Qlik NPrinting SMB Server.** The Qlik NPrinting SMB Server has the same functionality as the Qlik NPrinting 17 Server, except that it is limited to 250 named user recipients and 2 developers, with no ability to add engines. Mail groups or distribution lists may not be designated as a single named user recipient.

## 9. Qlik Reporting Service

Qlik Reporting Service is an included feature with a Qlik Sense Enterprise (“QSE”) SaaS subscription and may be upgraded. The table below shows the permitted use for each tier of Qlik Reporting Service.

	QSE SaaS (Included)	Start Up	Scale Up	Premiere	Premiere Expansion Increments	Enforced*
<b>Maximum Number of Reports per Month</b>	100	1,000	5,000	20,000	20,000	No

\*Some limits are not enforced within the product and actual use may exceed stated limits. Repeated overage will require an upgrade to the applicable level corresponding with actual use.

As used above, “Report” means a document output of a reporting services call (Via API or Generate Report Block in Automations). Examples of Reports are:

- Direct API call to return a chart in a document format is a count of 1 Report
- Within an Automation, the execution and successful return of a composed multi-page document from a Generate Report Block is a count of 1 Report.

## 10. General

**Third Party APIs.** Qlik Products may connect with or access third party web-based applications, including Geocoding and connectors. Third-party application programming interfaces (“API”) are not managed by Qlik, and Qlik cannot be responsible for disruptions in connectivity, if any third-party APIs are changed or discontinued by the respective third parties.

