Qlik

License Metrics for Qlik Sense® and Qlik Analytics Platform®

These License Metrics are part of the Documentation and govern the use of Qlik Sense Enterprise, Qlik Sense Business and Qlik Analytics Platform.

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I. Qlik Sense Overview

Qlik Sense is available as a subscription only. Customers can choose from several options to access Qlik Sense, including SaaS and Client-Managed Editions. Qlik Sense SaaS Editions include Qlik Sense Enterprise (QSE) SaaS and Qlik Sense Business, which provide a cloud infrastructure hosted and managed by Qlik. Qlik Sense Enterprise (QSE) Client-Managed Edition allows customers to deploy on premises or in a customer-managed cloud. QSE Client-Managed customers can also add QSE SaaS to the same subscription, which allows applications to be managed and distributed across on-premise or cloud environments from a unified platform. User and access types for Qlik Sense SaaS and QSE Client-Managed editions are listed below. Qlik Sense Tokens remain available only to customers with existing Qlik Sense Token licenses.

A Qlik Sense Client-Managed site refers to a deployment, which is managed with a single license key and may cover multiple servers or nodes ("Site"). A Qlik Sense Enterprise SaaS tenant is a container within Qlik Cloud, which is managed with a single license key ("Tenant"). Customers requiring multiple Client-Managed Sites may be required to separately license usage entitlements for each Site. Customers requiring multiple Qlik Sense Tenants may license subscriptions for separately managed Tenants or a centrally managed multitenant entitlement with multiple Tenants. Test and Development Sites require separate licenses, except where expressly included in a subscription.





II. Qlik Sense Enterprise SaaS

Qlik Sense Enterprise SaaS subscriptions include one tenant and standard capacity limits as described below. Additional tenants may require separate subscriptions. Qlik Sense Enterprise SaaS is not available to MSP partners.

A. Access to Qlik Sense Enterprise SaaS

| Access Type | Description |
|------------------------|---|
| Professional User | Professional User is a full developer and user license, which provides access to all features of Qlik Sense Enterprise SaaS. Professional User subscriptions include access to Qlik GeoAnalytics Base and Qlik Web Connectors during the subscription period and for so long as the products are generally available. Professional Users are not available for external use by third parties. ¹ |
| Analyzer User | Analyzer User is a limited user license and allows users to access and explore Qlik Sense Applications. Analyzer Users may not create or modify Qlik Sense Applications, create or publish new sheets, update or modify data or access a Personal Space. At least one Professional User is required to purchase an Analyzer User. |
| Analyzer Capacity Pack | Analyzer Capacity offers access to QSE SaaS with metered usage. Analyzer Capacity is sold in packs of 1,000 minutes per month. Minutes are allocated and reset on a monthly basis and any unused minutes remaining at the end of a month are forfeited. Consumption of minutes is based on active use and in minimum increments of 6 minutes. Usage is actively metered and users will be denied access if the licensed capacity is exceeded. If a customer enables and consents to overage, customer will be permitted to exceed purchased minutes and will be invoiced for any overage (at 125% of list price) the following month. Analyzer Capacity functionality is the same as the Analyzer User functionality. At least one Professional User is required to purchase Analyzer Capacity. |

B. QSE SaaS Capacity Limits (Standard)

| Application Size Limit (in-memory) | The maximum size of an application, which contains the visualization layer, load script and highly compressed data. The in-memory size maximum refers to the amount of memory an application consumes when it is being loaded with data in QSE SaaS. | 5 GB Maximum |
|--|--|--------------|
| Concurrent Applications | The maximum number of applications for all users that can be run at any given time. If more than 1 application is used as a constant display or billboard, application performance may be impacted. Display or billboard use means circumventing the automatic logout function to keep a login active and force an application to display without interruption. | Unlimited |
| Scheduled Data Reloads (per day) | The total number of data refreshes that can be scheduled in a single day. There is no limit on manual data refreshes. A data reload is an update to the data model that changes its schema and/or content using an automated or manual script. | Unlimited |

| Scheduled Data Reload Concurrency | The total number of scheduled data refreshes that may occur at the same time. In some cases, queuing may occur due to high concurrency demands. | Unlimited |
|--------------------------------------|--|-----------|
| Total Cloud Storage (on disk) | Cloud storage is limited to data specifically used for purposes of analytics. Cloud storage capacity may not be used to store non-analytics data or as a backup repository for unrelated data. | Unlimited |

QSE SaaS Expanded Capacity С.

Qlik Sense Enterprise SaaS subscriptions may be upgraded to include Expanded Capacity limits. Expanded Capacity has the same limits as Standard Capacity but with the expanded limits as set forth below.

| Application Size Limit (in-memory) | The maximum size of an application, which contains the visualization layer, load script and highly compressed data. The in-memory size maximum refers to the amount of memory an application consumes when it is being loaded with data in Qlik Sense Enterprise SaaS. | 10 GB Maximum |
|--|---|------------------------|
| Concurrent Large Applications | The maximum number of Qlik Sense SaaS applications with expanded size limits (between 5GB to 10GB) that can be run at any given time. | 2, 4 or 8 Applications |

D. **QSE SaaS Dedicated Capacity**

Qlik Sense Enterprise SaaS subscriptions may be upgraded to include Dedicated Capacity limits. Dedicated Capacity has the same limits as Standard Capacity except as set forth below.

| Dedicated Capacity (Per instance) | The amount of compute capacity available per instance. An instance is either dedicated to application analytics or reloads. A minimum of two instances is required for applications and reloads with an option to expand on a per instance basis thereafter. | Capacity Options: Minimum 2 instances at 240 GB (120 GB each) and 15 CPU. Option to expand at 12 GB per instance; or Minimum 2 instances at 480 GB (240 GB each) and 15 CPU. Option to expand at 240 GB per instance. |
|--|--|---|
| Application Size Limit (in-memory) | The maximum size of an application, which contains the visualization layer, load script and highly compressed data. The in-memory size maximum refers to the amount of memory an application consumes when it is being loaded with data in Qlik Sense Enterprise SaaS. Application size is constrained by available resources and subject to the maximum size limit. | 50 GB Maximum |
| Concurrent Large | The maximum number of Qlik Sense SaaS applications with expanded size limits (above 5GB) that can be run at any given time is constrained by available resources up to the | Capacity Limits |

| max application size limit. | |
|-----------------------------|--|
| | |

E. **QSE SaaS Multi-Tenant Entitlement.** A QSE SaaS Multi-Tenant entitlement permits the deployment of multiple tenants from a single subscription. 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. If using Customer Managed Keys (CMK), a unique CMK is required to be deployed to each tenant.

III. Qlik Sense Enterprise Client-Managed

Qlik Sense Enterprise Client-Managed edition provides a standard on-premises deployment with full create and consume capabilities. The customer manages all aspects of the deployment, including infrastructure. Client-Managed subscriptions include access to one Test and one Development Site for the subscription period.

Α. **Qlik Sense Enterprise Client-Managed**

| User Type* | License | Description |
|----------------------|------------------------------------|---|
| Professional User | Client- Managed Subscription | Professional User is a full developer and user license, which provides access to all features of Qlik Sense Enterprise Client-Managed. Professional Users receive all of the features of the Analyzer User plus the ability to create Qlik Sense applications ("Applications") and sheets, access My Work, and authenticate to both the Qlik Sense mobile application and Qlik Sense Desktop. Professional User subscriptions include access to Qlik GeoAnalytics Base and Qlik Web Connectors at no additional cost during the subscription period and for so long as the products are generally available. Professional Users are not available for external use by third parties. |
| Professional User | Client- Managed Perpetual | Professional User perpetual licenses include all of the features, functions and restrictions of subscription Professional User licenses but do not include Test or Development Sites. Professional User perpetual licenses include access to Qlik GeoAnalytics Base and Qlik Web Connectors, for so long as the customer remains current on maintenance and the products are generally available. |
| Analyzer User** | Client- Managed Subscription | Analyzer User is a limited user license and allows users to access and explore Qlik Sense Applications. Analyzer Users may not create or modify Qlik Sense Applications, create or publish new sheets, update or modify data, access My Work, or authenticate to Qlik Sense Desktop. At least one Professional User is required to purchase an Analyzer User. Analyzer Users may be accessed and used by external third parties authorized by the customer. At least one Professional User is required to purchase an Analyzer User. |
| Analyzer User** | Perpetual | Analyzer User perpetual licenses include all of the features, functions and restrictions of subscription Analyzer User licenses but do not include Test or Development Sites. Analyzer User perpetual licenses include access to Qlik GeoAnalytics Base and, Qlik Web Connectors, for so long as the customer remains current on maintenance and the products are generally available |

| User Type* | License | Description |
|----------------------|---------|---|
| Analyzer Capacity | | Analyzer Capacity is a capacity-based license option and offers access to QSE Client- Managed with metered usage. Analyzer Capacity is sold in packs of 1,000 minutes per month. Minutes are allocated and reset on a monthly basis and any unused minutes remaining at the end of a month are forfeited. Consumption of minutes is based on active use and in minimum increments of 6 minutes. Usage is actively metered and users will be denied access if the licensed capacity is exceeded. If a customer enables and consents to overage, customer will be permitted to exceed purchased minutes and will be invoiced for any overage (at 125% of list price) the following month. Analyzer Capacity functionality is the same as the Analyzer User functionality and is administered with the Qlik License Service beginning with the February 2019 release. Analyzer Capacity requires at least one Professional User license for development. |

*To access a Professional or Analyzer User license, the user must be uniquely identified and authenticated. An IP address is not a valid form of user identification.

B. QSE SaaS Add-On for Client-Managed

Customers with a QSE Client-Managed subscription can add a QSE SaaS Add-On to their deployment for an additional charge. QSE SaaS cannot be added to a QSE Client-Managed perpetual license. The QSE Add-On includes all of the features of QSE SaaS. One tenant is included with a QSE SaaS Add-On subscription. QSE SaaS Add-On will include the same user or access types and quantities as the underlying QSE Client-Managed subscription. With a Qlik Sense Enterprise SaaS Add-On, named users have one identity and login across both QSE Client-Managed and SaaS deployments and users can distribute content from QSE Client-Managed to QSE SaaS.

IV. Unified License

QlikView Add-On

A unified license refers to a common user license model between Qlik Sense Enterprise and QlikView. The QlikView Add-On allows QlikView to be added to QSE SaaS and QSE Client-Managed deployments using a common license model. A unified license requires use of the Qlik License Service, which enables Professional Users, Analyzer Users or Analyzer Capacity Packs to be centrally managed and assigned or allocated for use with either QlikView or Qlik Sense.¹

V. Qlik Sense Business

Qlik Sense Business (QSB) is a is a SaaS offering hosted on Qlik Cloud Services (QCS) to operationalize analytics across groups and teams. QBS is made available to customers on a per user basis.

1. Qlik Sense Business Capacity Limits

| | Parameter | Maximum | Description | |
|------|--|---------|---|--|
| TITI | Application Size | 1.25 GB | The maximum size of an app, which contains the visualization layer, load script and | |
| | ¹ Existing QlikView customers with CALs may take advantage of unified licensing by contacting their account representative. Unified licensing requires use of QlikView version which supports the Qlik License Service. | | | |
| | | | Qlik Sense License Metrics 5 | |

| Parameter | Maximum | Description |
|---|-----------------|--|
| (in-memory)* | | highly compressed data, that can be consumed in-memory. The in-memory size maximum refers to the amount of memory an app can consume when it is being loaded with data in Qlik Sense Business. |
| Total Cloud Storage (on disk) | 250GB | The total amount of storage on disk for the QSC tenant including staged data, apps and user-generated content. Cloud storage is restricted to Qlik application data only. |
| Scheduled Data Reloads Per Day | 50 | The total number of data reloads across all apps that can be scheduled in a single day. There is no limit on manual data reloads. A data reload is an update to the data model that changes its schema and/or content using an automated or manual script. |
| Scheduled Data Reload Concurrency | 3 | The total number of scheduled data reloads that may occur at the same time. There is no limit on manual data refreshes. |
| Shared Spaces | 5 | Allows groups of Users access to collaboratively create apps and/or interact with apps. |
| Personal Spaces | 1 (per User) | Users can create and share their own apps. Spaces are sections of the hub used to both collaboratively develop Applications and control access to Applications. |

Β. Accessing Qlik Sense Business

In order to access Qlik Sense Business, each User must have accepted a customer's invitation to join the customer's Qlik Sense Business group and have been registered (by email address) by customer's account. User assignments are made within the total number of Users in the subscription and may not be transferred to another user unless due to: (i) termination of employment, or (ii) other business circumstance in which the user no longer requires access to Qlik Sense Business (e.g., transfer of the user to a new business unit).

VI. Qlik Sense Enterprise Core-Based Site (CPU)

Qlik Sense Enterprise core-based sites are licensed based on the number of CPU Cores ("Cores") on which the software will operate and is not available for QSE SaaS. The license key limits the maximum number of Cores on which the Qlik Associative Engine and its components may operate. Cores must be licensed for the Qlik Associative Engine on the central node and any other node used for reloading data or providing user access to an application supported by the Software. A Core means a single processing unit within a processor or CPU, whether physical or virtual, including a vCPU or virtual core, which is capable of executing a single software thread at a time. If the software is installed across multiple nodes, the total number of Cores on all nodes may not exceed the licensed number of Cores.

The Qlik Analytics Platform includes a suite of application program interfaces ("APIs") as well as a development toolkit with developer, governance and management tools. Developers may build applications by using these APIc at developer toolkit, or other standard web and Windows® development tools. No built to the standard web and Windows® development tools. No built to the standard web and Windows® development tools.



with the software, therefore, access to QAP Applications must be through other platforms such as portals, webservers or locally installed applications.

A. Cores

The Qlik Analytics Platform ("QAP") is licensed based on the number of Cores on which the software will operate. The software license is administered using a license key, which limits the maximum number of Cores on which the Qlik Associative Engine ("Engine") and its components may operate. Cores must be licensed for the Qlik Associative Engine on the central node and any other node used for reloading data or providing user access to an application supported by the software ("QAP Application"). A Core means a single processing unit within a processor or CPU, whether physical or virtual, including a vCPU or virtual core, which is capable of executing a single software thread at a time. If the software is installed across multiple nodes, the total number of Cores on all nodes may not exceed the licensed number of Cores.

Use of QAP is subject to the following minimum configuration and license requirements.

| QAP Editions | Minimum Configuration | License Model |
|--|-----------------------|---------------------------|
| Qlik Analytics Platform for OEM | 4 Cores | Subscription |
| Qlik Analytics Platform External Edition | 4 Cores | Perpetual or Subscription |

Use of Qlik Analytics Platform Β.

The right to access and view a QAP Application is restricted to external third parties authorized by the customer. Authorized third parties may not create, upload, or modify any of the data, which they are permitted to view, and may not install, download, or copy the Software in connection with viewing QAP Applications. QAP may not be used to deploy Qlik applications for customer's internal users and access to QAP Applications from inside the LAN is not permitted, except for purposes of testing and validation. Separate Qlik Sense Enterprise licenses and environments are required to develop Qlik applications or deploy Qlik applications for use internally. However, where access to a QAP Application is both publicly available and no user authentication or login is required (e.g., from a public website), such use is permitted regardless of whether the end user is internal or external.

C **Test Sites**

The QAP test and development sites are licensed separately, and the test or development site does not have to mirror the LEF for a production site. A QAP test or development site may not be used for production purposes.

VIII. Qlik Sense Enterprise Multi-Cloud Deployment

Subscriptions for Qlik Sense Enterprise Professional/Analyzer/Capacity licensed between June, 2018 to July, 2020 include deployment options on Windows® and Qlik Cloud Services. QSE on Windows refers to the standard on-premises deployment (or in a customer or third-party cloud) with full create and consume capabilities. This environment is where application development and reloads occur and is required for a multi-cloud deployment. Applications can be distributed And the second services.

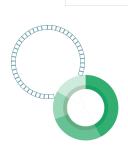
IX. Qlik Sense Tokens

Qlik Sense Tokens are only available to customers with existing Token licenses using a QSE Windows-based deployment. Qlik Sense Tokens are used to assign access pass types that determine how users are able to access Qlik Sense. For customers using Tokens, Qlik Sense is administered using a license key, which holds the number of Tokens available to allocate as access passes. An access pass allows users to access streams and Applications within a Qlik Sense site. A Qlik Sense site is a collection of one or more nodes connected to common central node.

A. Access Passes

There are different types of access passes to choose from and each type corresponds to a specific consumption model for accessing Qlik Sense. Each access pass provides the Qlik Sense user with a certain type of access to Applications. The following table lists the types of access passes that are available to the Qlik Sense Server.

| Access Pass Type | License | Description |
|---------------------|---|---|
| User Access Pass | Available with perpetual and subscription licenses | A User Access Pass allows a unique and identified user to access the Qlik Sense hub. The access pass is valid within an entire Qlik Sense site. For example, if a user first connects to a node in the USA and then, at a later stage, connects to a node in the UK, the user consumes the same access pass, if the two nodes are connected to the same central node. The maximum number of parallel user connections for a single user of this type of access pass is five (5). A user connection is the combination of device and browser that is used by a single user to connect to Qlik Sense. If a user who already has a user connection is established. One (1) token corresponds to one (1) User Access Pass. User Access Passes are allocated using the Qlik Management Console (QMC) Table Text. |
| Login Access Pass | Available with perpetual licenses only | A Login Access Pass allows an identified or anonymous user to access the hub for a maximum of 60 continuous minutes per 28-day period. If the user exceeds the 60- minute time limitation, the user connection does not time out. Instead, another login access pass is used. If no more login access passes are available, the session is discontinued. If an identified user is disconnected, the user can re-connect and continue to use the same access pass, if re-connecting within the 60 minutes. If an anonymous user is disconnected, the user gets a new access pass when re-connecting. The login access pass tracks the number of logins and runs over 28 days. For example, if 1000 logins are assigned to Group A, the users in Group A can use 1000 logins over 28 days. If 100 logins are consumed on Day 1, the 100 logins are available again on Day 29. |
| | | The maximum number of parallel user connections for a single identified user of this type of access pass is five (5). Note that an anonymous user can only have one (1) user connection. One (1) token corresponds to ten (10) Login Access Passes. Login Access Passes are allocated using login access groups in the QMC Table Text |



B. Removing Access Passes

| Access Pass Type | Description |
|-------------------|--|
| User Access Pass | When a User Access Pass is removed, it enters a quarantine period for seven (7) days starting from the last time that the access pass was used. For example, if the access pass is used on January 10, the Tokens used to allocate the access pass are not available for new allocations until January 18. During the quarantine period, the original allocation of the access pass can be reinstated, which means that the quarantine period ends and the user can start using the access pass pass pass again. |
| Login Access Pass | When a Login Access Pass is removed, the tokens used to allocate the access pass become available in accordance to the following procedure: For every ten (10) unused Login Access Passes, one (1) Token is freed up. For every ten (10) Login Access Passes that leave the used state after 28 days, one (1) Token is freed up. |

X. General

These general provisions are applicable to Qlik Sense Enterprise and Qlik Analytics Platform unless stated otherwise.

A. External Use

Licenses for which external use is permitted may be accessed by third parties authorized by the customer for viewing Applications incidental to a business relationship with the authorized third parties. Authorized third parties shall not be permitted to create Applications, or to create, upload, or modify any of the data which they are permitted to view. Customer may not share license keys or permit third parties to install download or copy the Qlik Sense Software in connection with viewing Applications.

| License | Internal Use | External Use |
|------------------------------|--------------|--------------|
| Qlik Sense Professional User | Y | N** |
| Qlik Sense Analyzer User | Y | Υ |
| Qlik Sense Analyzer Capacity | Y | Y |
| Qlik Sense Tokens | Y | Y |
| Qlik Sense CPU Core | Y | Y |
| Qlik Analytics Platform | N* | Y |
| Qlik Sense Business | Y | Y |

* Except for purposes of application testing and validation

** Except as permitted under a Qlik OEM Agreement

B. Named User Licenses

Named user licenses are assigned to an identified user and may not be transferred or reallocated to another user unless due to business circumstances in which the user no longer requires use of the license (e.g., termination or transfer to a new business unit). Licenses may not be freely transferred, reassigned or otherwise shared among a pool of users, so that the ratio of licenses to users is greater than one-to-one on a recurring basis. QSE user licenses deployed on Windows, which are assigned to an identified user, will be subject to a quarantine period before the license can be reassigned to another user.

| Named User License Types | Quarantine Period |
|--------------------------------------|-------------------|
| Qlik Sense Professional User | 7 days |
| Qlik Sense Analyzer User | 7 days |
| Qlik Sense Tokens (User Access Pass) | 7 days |

C. Disaster Recovery

QSE customers using a Windows deployment may stand up a separate node for disaster recovery purposes. If there is a need to separate the production node, license keys may be installed on additional servers as required for backup or disaster recovery purposes on cold standby. No more than the licensed quantity of Software may be running at any given time. A cold standby environment can be installed and ready to run, but cannot be live (i.e., the Windows services cannot be started) and in use prior to the live environment being shut down.

D. Display Accounts & Public Displays (QSE on Windows)

User licenses are reserved for end user individuals, but may also be assigned to a service account to manage system services (e.g., web servers) that require a user ID. One user license should be assigned to one service account, and one service account should be designated per service or application.

A user license may also be designated for a monitor, screen or other publicly displayed device ("Display") to publish or display an Application to many viewers, provided the Display is not interactive. Use of a Display to circumvent user licensing requirements is not permitted. One user license should be assigned for each Display. A single user license may not be used to create parallel connections for multiple Displays.

E. Multiplexing/Shared User Accounts

Multiplexing occurs when multiple end users are able to simultaneously access a single system through a common shared interface, such as a web server product. Because Qlik Sense may assign a license to the shared interface rather than to each of the end users accessing Qlik Sense via the interface, multiplexing can result in the number of actual users exceeding the number of users licensed. If Qlik Sense software is utilized with an interface that permits multiplexing to occur, customer is required to license a quantity of licenses equivalent to the total number of actual users at the multiplexing front end. The use of user login sharing, sharing of user credentials, shared logins or passwords is prohibited in Qlik Sense Enterprise SaaS.

F. Multiple Deployment Sites (QSE Client-Managed)

| | Description |
|-----------------|--|
| Production Site | A Qlik Sense deployment on Windows can include both a development node and a production node supported by one license key. If there is a need to separate the production node from the development node, separate license keys (or one per Qlik Sense site) would be required. |
| Harris | Qlik Sense License Metrics |

| | Description |
|------------------|---|
| Test Site | A Qlik Sense Test Site provides an environment separate from production to use for validation, testing, and quality assurance. A Qlik Test Site may not be used in production. |
| Development Site | A Qlik Sense Development Site provides an environment separate from production to use for development of Applications or release management prior to testing. A Qlik Development Site may not be used in production. A Development Site is purchased separately from the Test and Production Site. If a Development Site is purchased with production capacity, the Development Site will mirror the production capacity at the time of purchase of the Development Site. |

