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## License Metrics for QlikView

The License Metrics are part of the Documentation for QlikView and govern the license and use of the Software.

### 1. Client Access Licenses

To connect to a QlikView® Server (QVS), each client needs a Client Access License (CAL). The CALs must be licensed together with a QlikView Server and associated with the server serial number. CALs require a device to connect to the QlikView Server. A device refers to a machine, tablet, phone as well as different browsers within the same device. A CAL can only support one session at a time per device. CALs cannot be transferred to a QlikView client program or between different QlikView Server clusters. If a user is required to work with documents residing in different clusters, a separate CAL is needed for each of the clusters. **Note:** The CALs require the QlikView Servers within a cluster to be within the same geographical and physical location and within the same network sub-net/segment.

### 2. CAL Types

The CALs described below are used to provide users access to the various QlikView Servers identified in Section 9, *QlikView Server Editions*. CALs are used for licensing only and have nothing to do with user authentication for data access purposes.

CAL Type	Description
Named User CAL	<p>A Named User CAL is assigned to a unique and identified user (see Section 3, Identification) who may access as many QlikView documents as may reside on the server or server cluster to which the Named User CAL is assigned using one (1) User Connection. A User Connection is established when a user is identified by the QlikView Server from one QlikView client program (for example, the AJAX client, QlikView Desktop, or the Internet Explorer plugin) using a Computer or Tablet or Mobile device.</p> <p>A Named User CAL may only be transferred to another user in accordance with the license terms and the user definitions in Section 3 below, in which case there is a 7-day quarantine before the Named User CAL can be transferred to another user. There is no time limit for how long a user assigned a Named User CAL can access a QlikView document.</p>
Document CAL	<p>A Document CAL is assigned to a unique and identified user, who may access only the one QlikView document to which the Document CAL is assigned using one (1) User Connection. A QlikView document refers to a .qvw file, which is the file format for applications generated by using QlikView. Multiple Document CALs can be assigned to a particular user. For example, if a user connects to two QlikView documents, the user will have been assigned two Document CALs. A Document CAL may be transferred to another user pursuant to the software licensing agreement, in which case there is a 7-day quarantine before the Document CAL can be transferred to another user. There is no time limit for how long a user assigned a Document CAL can access the QlikView document to which the CAL is assigned.</p>



CAL Type	Description
Session CAL	A Session CAL allows any user, identified or anonymous, using one (1) User Connection to access as many QlikView documents as may reside on the QlikView Server (or server cluster) to which the Session CAL is assigned for a minimum period of 15 minutes. The term QlikView client program refers to a QlikView software client such as the AJAX client, QlikView Desktop, or the Internet Explorer plugin. Each QlikView client program which is opened creates a connection to the QlikView Server when it connects to an access point or to a QlikView document directly for the first time and utilizes a separate Session CAL. The session is held open until that instance of the QlikView client program is closed. Users may open and close multiple QlikView documents in one session as long as the QlikView client program itself is not closed and reopened. The minimum session time for a Session CAL is 15 minutes, which means that sessions that end in less than 15 minutes will still consume the session until the 15 minutes has passed. Sessions which terminate after 15 minutes will consume their actual session length. By default, there is no maximum session length, but this can be configured.
Usage CAL	A Usage CAL allows any user, identified or anonymous, using 1 (one) User Connection to access only one QlikView document, residing on the server or server cluster to which the Usage CAL is assigned for a time period of 60 minutes per 28-day period. If a user exceeds the 60 minute time limitation, the user will have consumed two Usage CALs without any warning being given to the user. Every 28 days, the Usage CAL is refreshed and the user may once again view a new QlikView document for 60 minutes using the same Usage CAL. Usage CALs are continuously recharged (at a rate corresponding to 1/28 of the total number of Usage CALs assigned to the QlikView Server per day).

### 3. Identified Users

To use a Named User CAL or Document CAL, the user must be identified via an authenticated user name (Windows Active Directory or through a ticket exchange between the web server and QlikView Server). The two methods of identification cannot be mixed on the same QlikView Server. An IP address is not a valid form of user identification. Note that the user name identification requires Windows authentication on AJAX clients, since machine name identification cannot be used for these clients.

Named and Document CALs are assigned to an identified user and may not be transferred to another user unless the transfer is due to a i) termination of employment, or ii) a transfer of the user to a new business unit or group resulting in no access to the Qlik Software. When a Named User or Document CAL is transferred, there is a 7-day quarantine before the CAL can be used by another user.

### 4. Document CAL Restrictions

The purpose of the Document CAL is to provide a license to use a single QlikView document. To prevent the combination of many data models in a single QlikView document, there are restrictions in the documents that can be used with the Document CAL. The Named User CAL, the Session CAL, and the Usage CAL can be used to open any functional QlikView document. However, the Document CAL can only be used with QlikView documents that have a single contiguous data model and do not contain any chasm traps between tables.



Most common data models used in QlikView documents can be used for Document CALs. For instance, proper star schemas and snowflake schemas typically have the field with the highest cardinality in the fact table and the keys in dimensional tables have a lower cardinality. For snowflake schemas, the cardinality decreases further when moving away from the fact table. Documents containing such models typically fulfill the above demands and are well-suited for Document CALs.

QlikView documents with multiple logical islands are normally not allowed. Multiple logical islands are only allowed, if the additional tables are unconnected and contain only few records or a single column.

In addition, the document may not contain any loosely coupled tables.

Finally, the cardinality (that is, the number of distinct values) of the key fields must decrease when moving away from the fact table.

## 5. Combining Different CALs

A given instance of QlikView Server can carry any combination of the CAL types listed in Section 2 (CAL Types). When different CAL types are combined on the same server, the order of priority in the CAL assignment is done as follows:

1. If there is a dedicated Named User CAL for the connecting client, it is used.
2. If there is a dedicated Document CAL for the connecting client, it is used.
3. If a new Named User CAL can be assigned to the connecting client, it is used.
4. If a new Document CAL can be assigned to the connecting client, it is used.
5. If there is an available Session CAL, it is used.
6. If there is an available Usage CAL, it is used.
7. If none of the above, access is denied.

## 6. License Lease

A QlikView client program that does not have a registered license is allowed to connect to a QlikView Server and “borrow” a license, so that the user can work offline for a period of 30 days. The QlikView client program must then make an authenticated log on (not anonymous) and obtain a Named User CAL. Each time QlikView is started, QlikView tries to contact the QlikView Server and renew the license lease. If the QlikView client program cannot reach the server after 30 days, the license lease expires.

A license lease can only be used with QlikView Desktop and the Internet Explorer plugin. This means a license lease cannot be obtained when using an AJAX client. A license lease is not supported by OEM Servers or Test Servers.

## 7. Cluster Licensing

A special type of license is available to allow multiple QlikView Server installations to share the same license serial number and support shared CALs. The servers are automatically considered as clustered. Note that this configuration affects networks where unauthorized license sharing between test and production environments has been configured. **Note:** The CALs require the QlikView Servers within a cluster to be within the same geographical and physical location and within the same network sub-net/segment.

## 8. Cold Standby Servers

QlikView Server and QlikView NPrinting Server license keys can be installed on as many servers as required for backup or disaster recovery purposes. However, no more than the licensed number of Servers 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 Windows services cannot be started) and in use prior to the live environment being shut down.

## 9. QlikView Server Editions & Other Products

The QlikView Server comes in a number of editions designed for different organizations and purposes. Upgrading is done through the license key. The various editions of QlikView Server are listed below.

Edition	Description
QlikView Enterprise Edition (EE) Server	QlikView EE Server is designed to be used in large and complex deployments and provides features such as unlimited documents, server-based collaboration, integration with third-party security systems, server clustering, and cluster licensing. The minimum configuration of a QlikView EE Server is five Named User Client Access Licenses (CALs).
QlikView Small Business Edition (SBE) Server	QlikView SBE Server is designed to be used in smaller deployments. The minimum configuration of a QlikView SBE Server is five Named User CALs.
QlikView Information Access Server (IAS)	QlikView IAS is a QlikView Server that is licensed for an uncapped number of users and a single QlikView document. The IAS may be licensed with multiple QlikView documents for an additional fee. QlikView IAS runs in anonymous mode and must be publically accessible without authentication (on the public Internet). The AJAX client or a customized AJAX client can be used via QlikView WorkBench, which is included in IAS. Note: There is no license lease from QlikView IAS.
QlikView Extranet Server (QES)	QES allows users to deploy QlikView documents to their extranet and may only be used by authorized third parties located outside of the firewall strictly to view QlikView documents on the server. Use of the QES inside the LAN is not allowed. The QES can only be deployed with Session or Usage CALs. Authorized third parties are not permitted to create, upload, or modify any of the data which they are permitted to view and may not install, download, or copy the QlikView Software in connection with viewing a QlikView document. QES supports mobile clients and can be deployed in clustered environments. The AJAX client or a customized AJAX client can be used via QlikView WorkBench, which is included in QES.
QlikView Test Server	QlikView Test Server is a server license that provides an environment separate from production to use for data validation, application testing, and preparation/migration of QlikView documents to new versions and/or releases of QlikView. QlikView Test Server comes in two editions, QlikView EE Test Server and QlikView SBE Test Server, both of which have the same features and limitations as the corresponding production servers. In addition, the watermark "Test" is superimposed on all charts. Test Servers are marked in the License Enable File (LEF) to indicate a Test Version. Note: There is no license lease from QlikView Test Server.



In addition to the QlikView Server editions described above, other available QlikView products are listed below.

Product	Description
QlikView Publisher	QlikView Publisher is a license that adds significant functionality to the standard reload capability of QlikView Server. QlikView Publisher includes functionality to handle field level security and access control from central administration software like Window Active Directory or Novell® LDAP. QlikView Publisher is also needed to support complex distribution models for QlikView documents. In addition, each license of QlikView Publisher allows an additional node/server for reload, distribution, or security management in a multi-node/server deployment. With the additional component QlikView Publisher PDF Report Distribution, any QlikView document report can be distributed as a .pdf file to a folder or via email or SMTP.
QlikView WorkBench	QlikView WorkBench (an add-on to QlikView EE Server) is a development tool for creating web mash-ups with QlikView. It features drag and drop editing capabilities within the Microsoft Visual Studio® development environment and allows for custom web interfaces and integration with third-party services. WorkBench also allows for rapid deployment of QlikView objects within Microsoft SharePoint portal environments by a div tag integration. Note: QlikView WorkBench is not available for use with QlikView SBE Server.
QlikView Web Parts for Microsoft SharePoint®	QlikView Web Parts (an add-on to QlikView EE Server) for Microsoft SharePoint allows for rapid deployment of QlikView objects within Microsoft SharePoint portal environments. <b>Note:</b> QlikView Web Parts is not available for use with QlikView SBE Server. Note: Web Parts is not available for QlikView 12 (and later versions). QlikView WorkBench may be used in place of Web Parts.
QlikView Local Client	QlikView Local Client is a client with functionality used to develop QlikView documents. The user may store or install one (1) backup copy for archival and disaster recovery purposes. The Local Client may not be shared for use on different computers or servers. If a serial number, password, license key or other security device is provided to the user for use with the Local Client, the user may not share or transfer such security device with or to any other user of the Software or any other third party.
QlikView Personal Edition	Any registered user may be permitted to download QlikView and develop QlikView documents for personal use. QlikView Personal Edition cannot open QlikView documents created by other users or perform an import of an entire layout from an XML file.

## 10. QlikView Server Features and Limitations

The table below lists the features and limitations of each edition of QlikView Server (Yes = supported, No = not supported).



	EE	SBE	IAS	QES
<b>Licensing</b>				
Named User CALs	Yes	Yes (max 25)	No	No
Session CALs	Yes	No	Yes (unlimited)	Yes
Usage CALs	Yes	No	No	Yes
Document CALs	Yes	Yes (max 100)	No	No
External Users Allowed?	No	No	Yes	Yes
<b>Clients</b>				
AJAX (and mobile devices via AJAX)	Yes	Yes	Yes (WorkBench included)	Yes (WorkBench included)
Internet Explorer Plugin	Yes	Yes	No	No
Installed QlikView Client	Yes	Yes	No	No
<b>Scalability</b>				
Can be clustered (additional server license required)	Yes	No	Yes	Yes
Unlimited Documents	Yes	Yes	Yes (Additional fee required for more than one document.)	Yes
<b>Integration</b>				
Third Party Security Integration	Yes	No	No	Yes



	EE	SBE	IAS	QES
Dynamic Data Update	Yes	Yes	Yes	Yes
<b>Features</b>				
License Lease (offline access, Named User CALs required)	Yes	Yes	No	No
Annotations	Yes	Yes	No	Yes
Collaboration (sheets, sheet objects, and input fields)	Yes	Yes	No	No
Session Collaboration	Yes	Yes	No	Yes
QlikView Publisher and PDF generation (additional license required)	Yes	Yes	No	Yes
Qlik Connector for use with SAP NetWeaver® (additional license required)	Yes	Yes	Yes	Yes
Test Server Option	Yes	Yes	Yes	Yes
Can be embedded in Microsoft SharePoint (QlikView Web Parts for Microsoft SharePoint) (additional license required)	Yes	No	Yes	Yes
Build bespoke mashups/AJAX applications (QlikView WorkBench) (additional license required)	Yes	No	Yes (included)	Yes (included)
<b>Security</b>				
Section Access	Yes	Yes	No	Yes
Document Metadata Service (DMS)	Yes	No	No	Yes
Active Directory/NTFS	Yes	Yes	No	Yes
Anonymous User	Yes (with Session CALs)	No	Yes (mandatory)	No



## 12. Remix

With any new purchase of QlikView CALs, a licensee that is current on maintenance for its QlikView licenses, may at its option, remix licensee's QlikView CALs for Qlik Sense Tokens pursuant to the QlikView Remix Policy located at the Qlik Customer Portal. Use of such Tokens shall be subject to the terms of the applicable license agreement between Qlik and the licensee. The exercise of such option shall be evidenced by a remix certificate executed by the licensee.