

OpenLM monitors license data in real time, and accumulates it in a relational database. This approach facilitates both:

- Management of network licenses in real time, and
- Production of historical license usage reports.

This document is a short overview of the historical license reports available on the OpenLM EasyAdmin web application.

For a more overall view of the different capabilities offered by EasyAdmin, [please refer to this document](#).

## **License Usage**

Click the EasyAdmin 'Start' → 'Reports' → "License Usage".

The powerful license usage report window accounts the consumption of single or multiple feature licenses with respect to the total number of licenses. It plainly presents license consumption patterns over configurable periods and sample resolutions. This information can be used to identify bottlenecks and redundancies in the license inventory.

This report is available in 3 different formats, according to the tabs in the display pane: As a table, a chart or as a heatmap diagram.

# Historical license usage reports - KB4065 | 2

**License Usage**

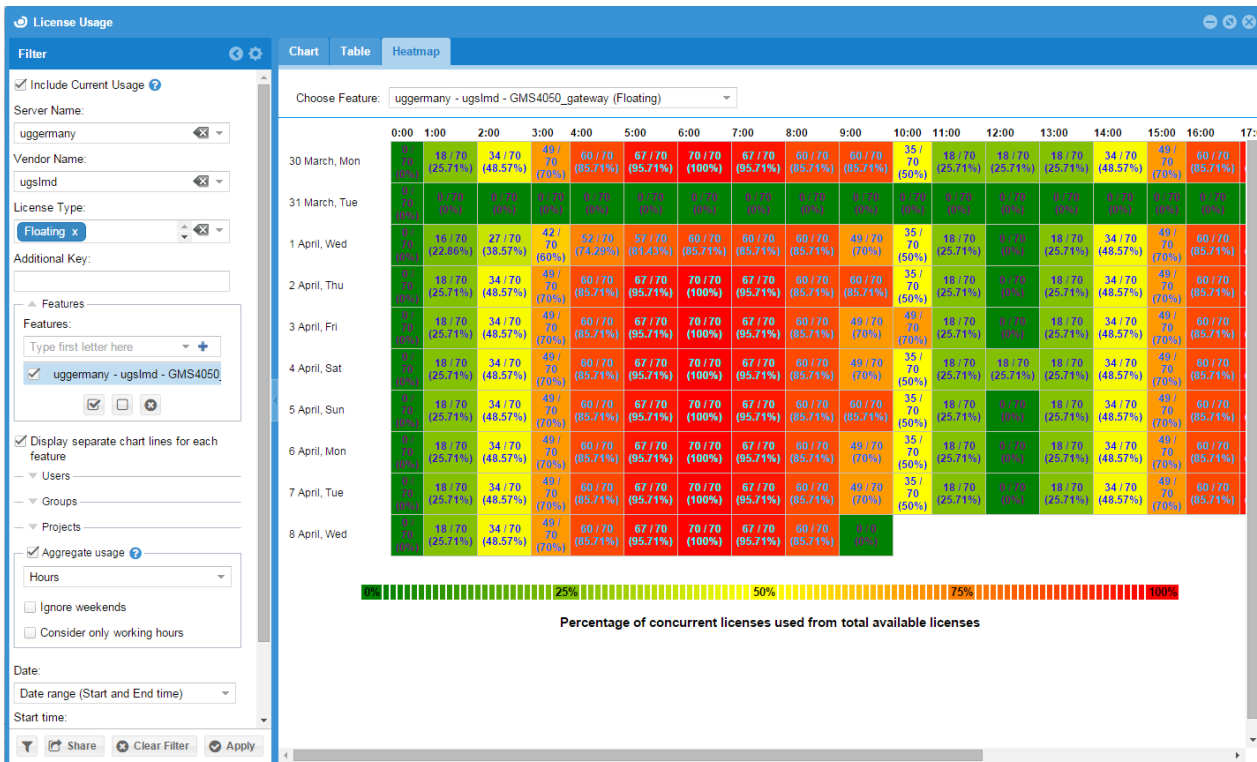
Filter

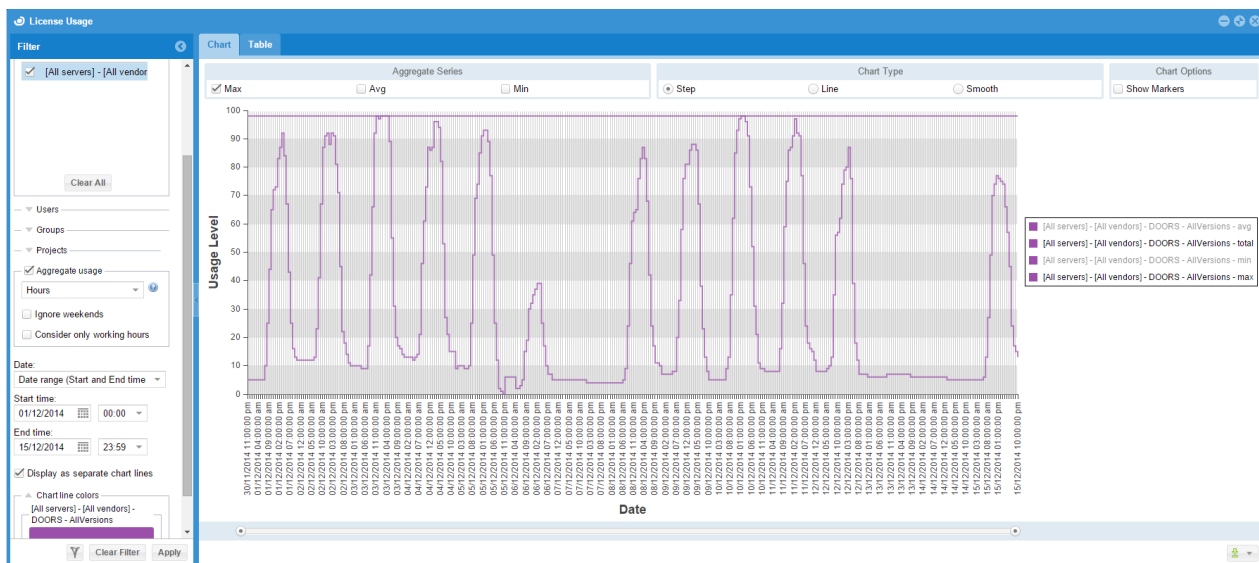
- Include Current Usage
- Server Name:
- Vendor Name:
- License Type:
- Additional Key:
- Features:
  - uggermany - ugslmd - GMS4050
- Display separate chart lines for each feature
- Users:
- Groups:
- Projects:
- Aggregate usage
  - Hours:
  - Ignore weekends
  - Consider only working hours
- Date:
- Date range (Start and End time):
- Start time:

Table

From	Server	Vendor	License Type	Feature	Total available licenses	Max # of concurrent ...
30/03/2015 00:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
30/03/2015 01:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	18
30/03/2015 02:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	34
30/03/2015 03:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	49
30/03/2015 04:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	60
30/03/2015 05:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	67
30/03/2015 06:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	70
30/03/2015 07:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	67
30/03/2015 08:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	60
30/03/2015 09:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	60
30/03/2015 10:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	35
30/03/2015 11:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	18
30/03/2015 12:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	18
30/03/2015 13:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	18
30/03/2015 14:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	34
30/03/2015 15:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	49
30/03/2015 16:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	60
30/03/2015 17:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	67
30/03/2015 18:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	70
30/03/2015 19:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	70
30/03/2015 20:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
30/03/2015 21:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
30/03/2015 22:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
30/03/2015 23:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
31/03/2015 00:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
31/03/2015 01:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
31/03/2015 02:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
31/03/2015 03:00:00	uggermany	ugslmd	Floating	GMS4050_gateway	70	0
31/03/2015 04:00:00	uooermany	uoslmd	Floating	GMS4050_gateway	70	0

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The “License usage” report window has some unique features:

- The chart view period can be zoomed - in and out using the zoom drag buttons.
- The chart may be presented as “steps”, “lines” or “Smoothed lines”.

The license usage window’s smart filter enables users to customize the usage report according to the following criteria: Server, Vendor, License Type, Additional Key (e.g. asset info), Feature, User, Group and Project.

There are some unique features to the “License usage” window’s filter:

- The time span of the usage report is configurable: select between predefined periods (e.g. last 30 days) and a start - to - end period definition
- The “Aggregated usage” check box selects between displaying the maximal level (“top watermark”) of usage sampled per period (hour /day / week) or the actual usage occurrences as reported by the license manager.

## License Activity

The License Activity window enables system administrators to produce sophisticated reports, and track license activity of individual users. The “Group by” tab on this window facilitates license statistics report generation according to Workstations, Features, Users, Groups, and Projects.

User Name	Workstation	Start Time	End Time	Vendor	Server	Feature	Product
Adam Perry	adb6708	21/05/2014 11:41:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	alpldea	Direct CAD Interface - SDRG-IDE
Harvey Sinclair	adb3765	21/05/2014 11:41:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	alpldea	Direct CAD Interface - SDRG-IDE
Adam Perry	adb6708	21/05/2014 11:41:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	dyna	ANSYS LS-DYNA
Harvey Sinclair	adb3765	21/05/2014 11:41:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	dyna	ANSYS LS-DYNA
Adam Perry	adb6708	21/05/2014 11:41:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	aloptmesh	ANSYS ICEM CFD OptiMesh
Harvey Sinclair	adb3765	21/05/2014 11:41:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	aloptmesh	ANSYS ICEM CFD OptiMesh
Patricia Foster	wseas1661	21/05/2014 11:42:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	alpldea	Direct CAD Interface - SDRG-IDE
Ava Montague	gbi5767	21/05/2014 11:42:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	alpldea	Direct CAD Interface - SDRG-IDE
Patricia Foster	wseas1661	21/05/2014 11:42:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	dyna	ANSYS LS-DYNA
Ava Montague	gbi5767	21/05/2014 11:42:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	dyna	ANSYS LS-DYNA
Patricia Foster	wseas1661	21/05/2014 11:42:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	aloptmesh	ANSYS ICEM CFD OptiMesh
Ava Montague	gbi5767	21/05/2014 11:42:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	aloptmesh	ANSYS ICEM CFD OptiMesh
Madeleine Freeman	gbi5798	21/05/2014 11:43:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	alpldea	Direct CAD Interface - SDRG-IDE
Alice East	wswe16519	21/05/2014 11:43:04	21/05/2014 11:49:59	ansyslmd	AnsysUSA	alpldea	Direct CAD Interface - SDRG-IDE

## Projects and Groups usage

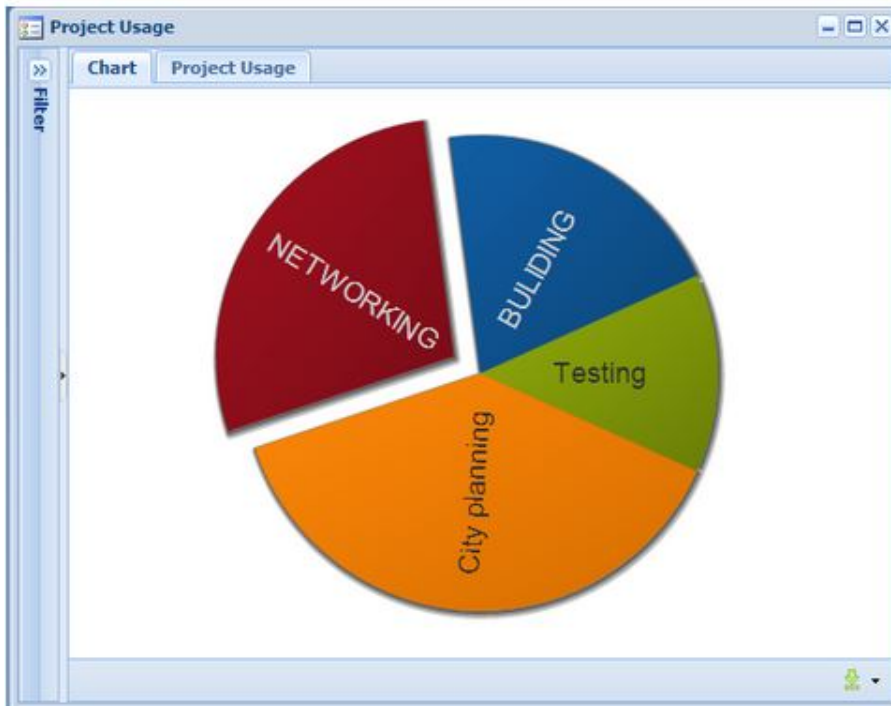
OpenLM facilitates monitoring of user activity, and can attribute license usage according to groups and projects. This functionality is often applied in order to implement license charge back policy (license usage billing).

Please refer to this document for more information on the [different types of entities \(e.g. Users, Groups, Projects\)](#) in OpenLM.

## Project usage report

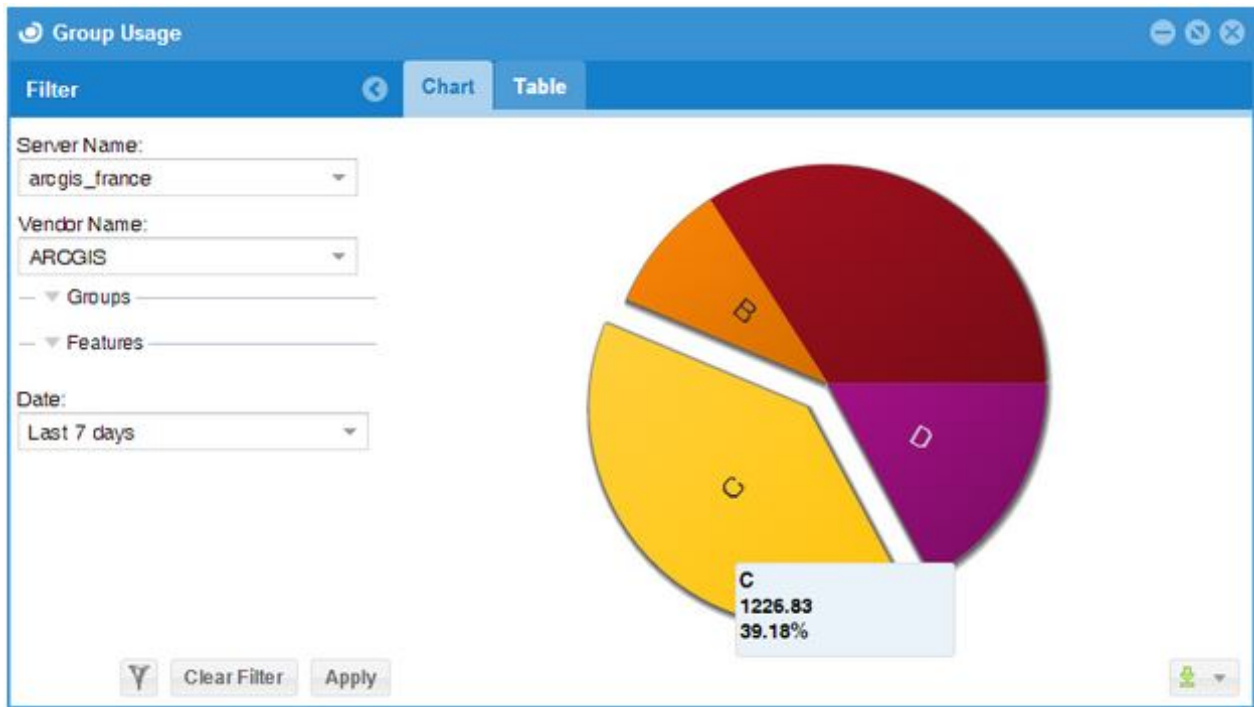
Project reporting enables project-oriented companies to get license usage time according to the active project, as reported by the end user.

For more information on license usage reporting by projects, [please refer to this document](#).



## Group usage report

Group reporting allows managers and system administrators to obtain license usage statistics according to groups.

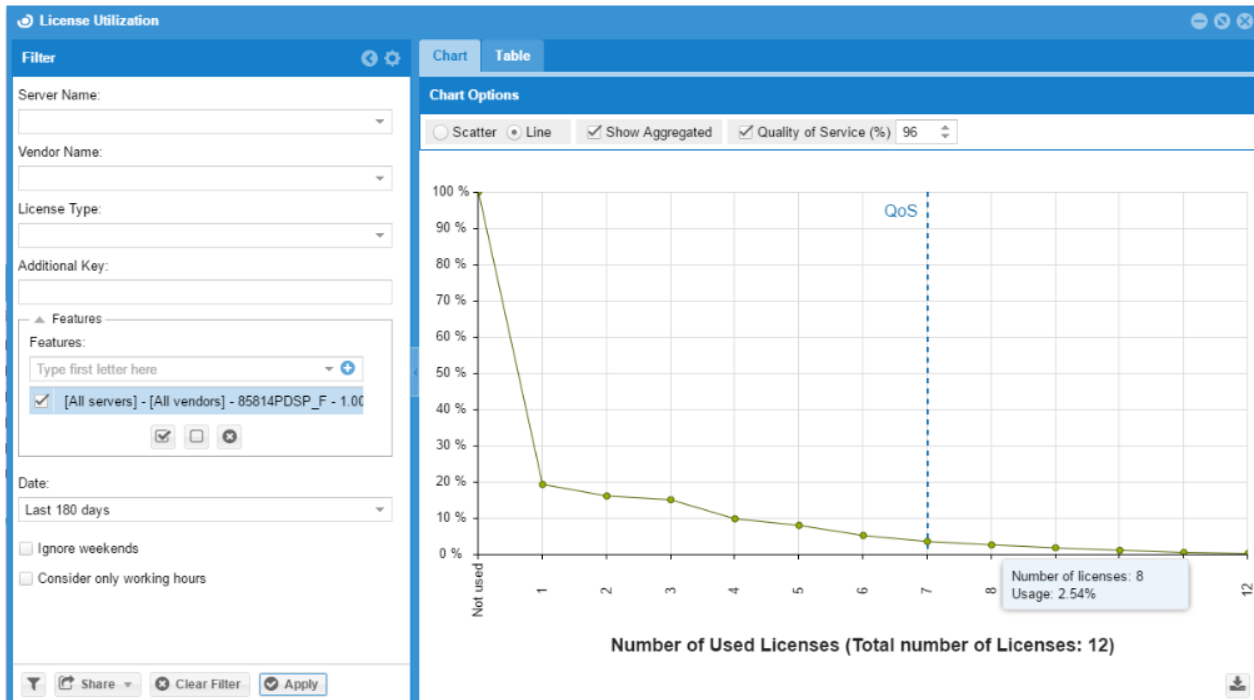


## License Utilization (“Efficiency report”)

Click the EasyAdmin ‘Start’ button, and select ‘Management’ → “License utilization”.

This chart indicates the license usage efficiency. Each column ‘x’ answers the question: “what is the percentage of usage time that at least x licenses have been in use”. This form of presentation ignores momentary usage peaks, and provides a vivid realization of the true license consumption pattern. It clearly depicts the number of licenses that are actually required in the organization.

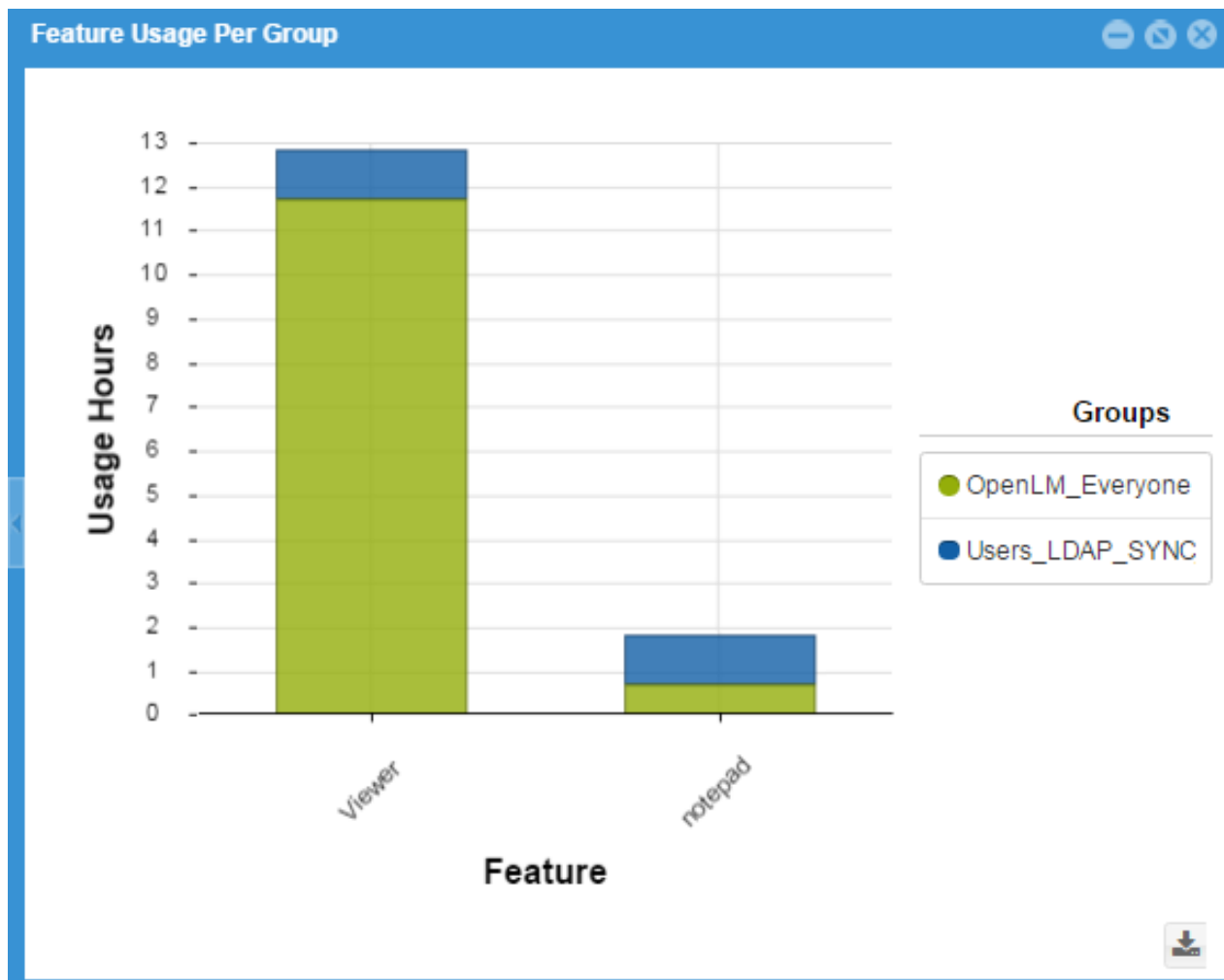
The QoS line indicates the number of required licenses in order to support a certain percentage of license requests. In the example below, the chart shows that only 7 licenses (out of 12 available licenses) are required to support 96% of license requests:



[For more information about this important report window, please refer to this document.](#)

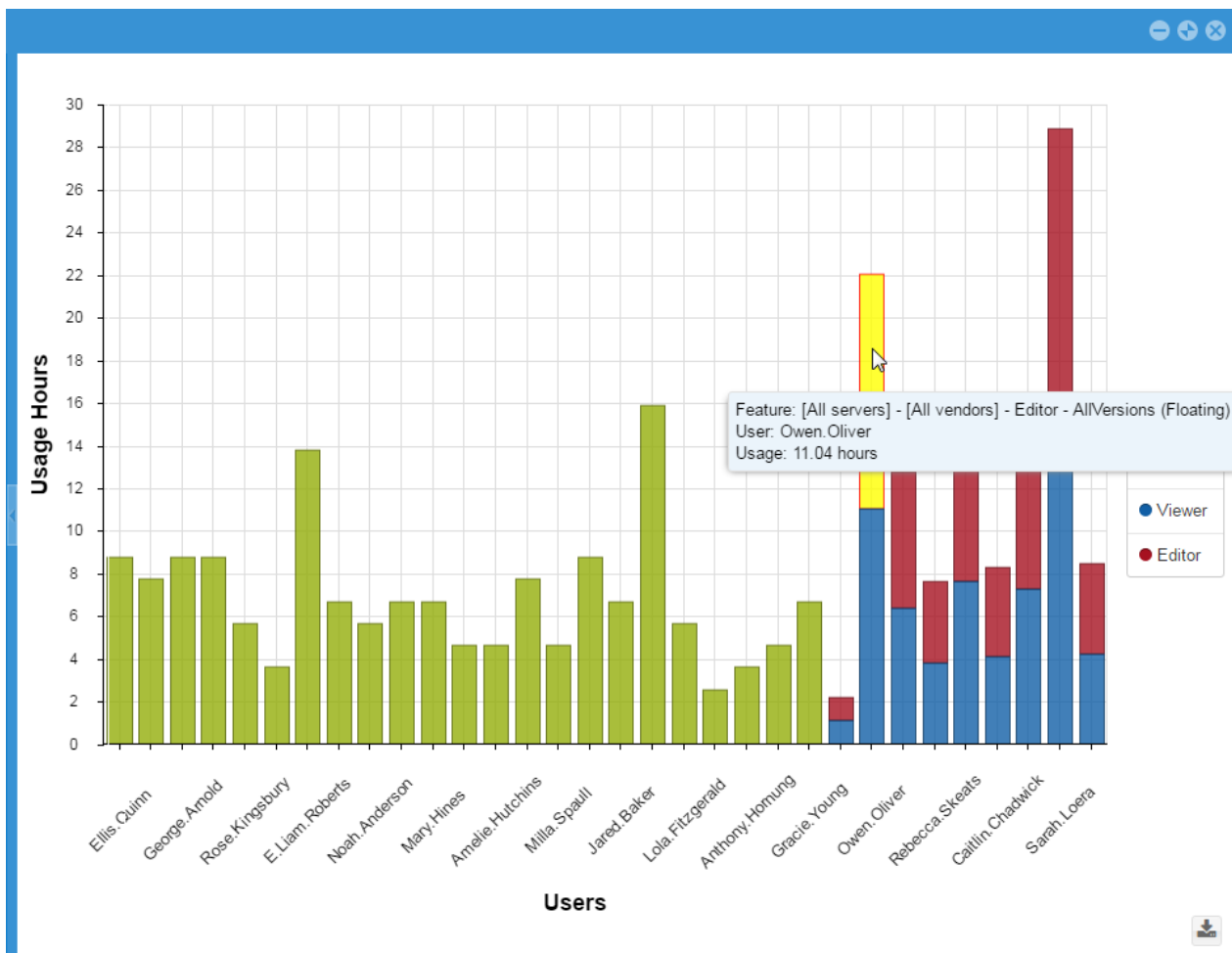
## Additional license usage reports

Click the EasyAdmin 'Start' button, and select 'Reports' → "Feature usage per group". This window presents the usage in hours of selected features per the selected user groups or all active groups, in a stacked vertical bar chart. Hover over the chart to view explicit usage information per each section of the bars.



Click the EasyAdmin 'Start' button, and select 'Reports' → "Feature usage per user". This window presents the usage in hours of selected features per the selected users or per all active users, in a stacked vertical bar chart. Hover over the chart to view explicit usage information per each section of the bars.





## Denied License requests

Click the EasyAdmin 'Start' button, and select 'Reports' → 'Denials'.

This is a presentation of historic license denial occurrences.

At the time of writing this article, OpenLM supports the reporting of denials for FlexLM, DSLS and IBM-LUM license managers.

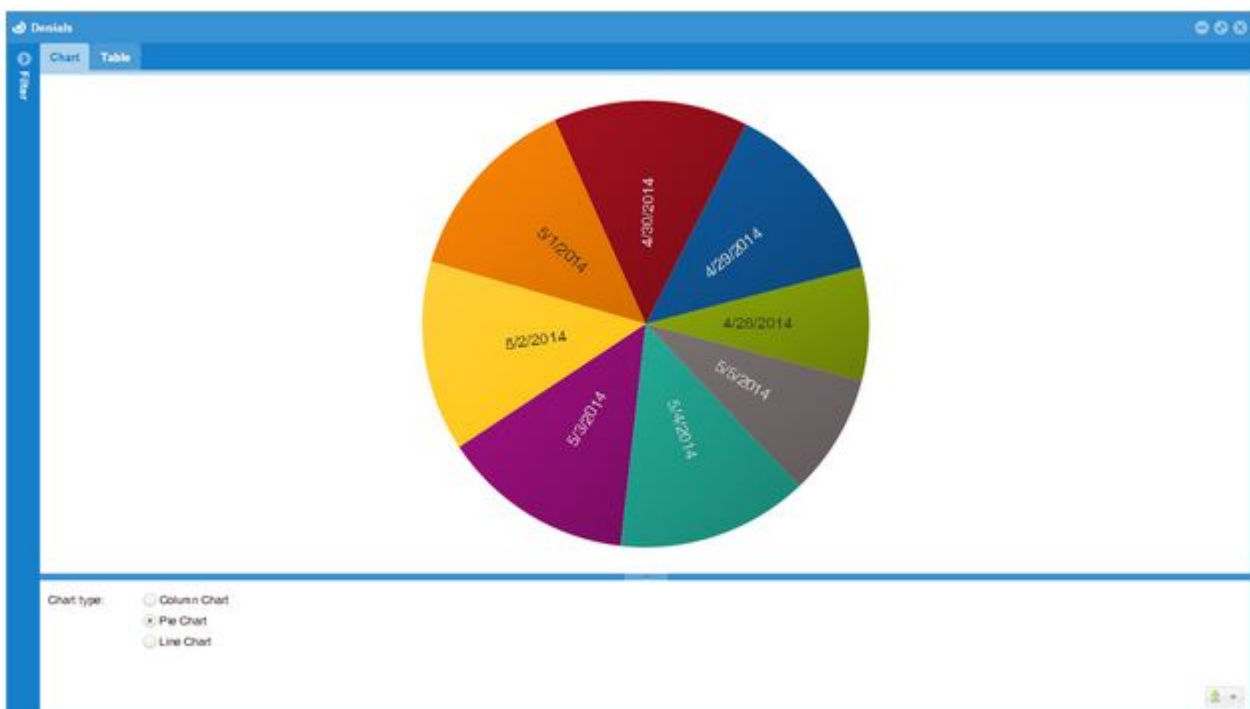
This feature requires installation of an OpenLM Broker on the license server machine. [Please consult this document for more information.](#)

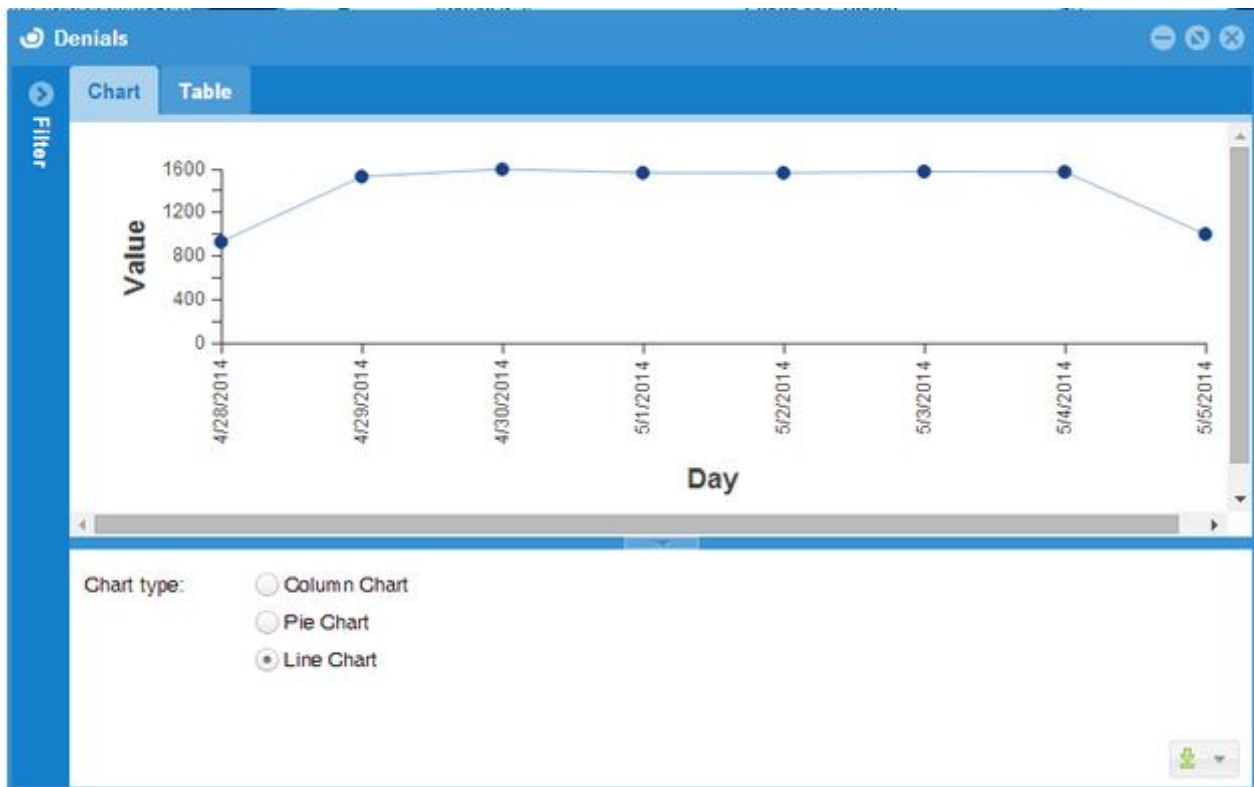
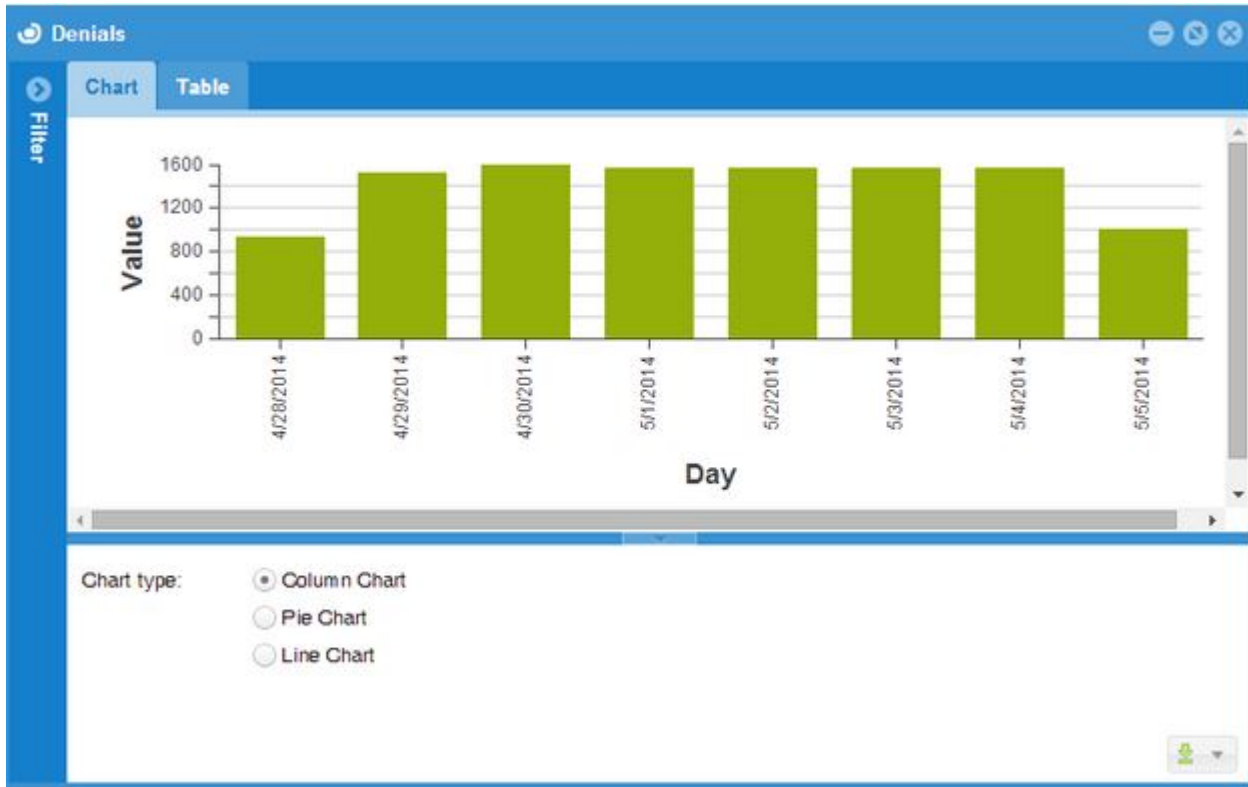
A few points to note regarding the Denials report window:

- Information may be sliced according to a list of criteria, e.g.: time, user, project,

group, workstation, denial type, vendor name, license server, license type (e.g. Floating, Node-locked), and “additional key” (e.g. FlexLM asset info).

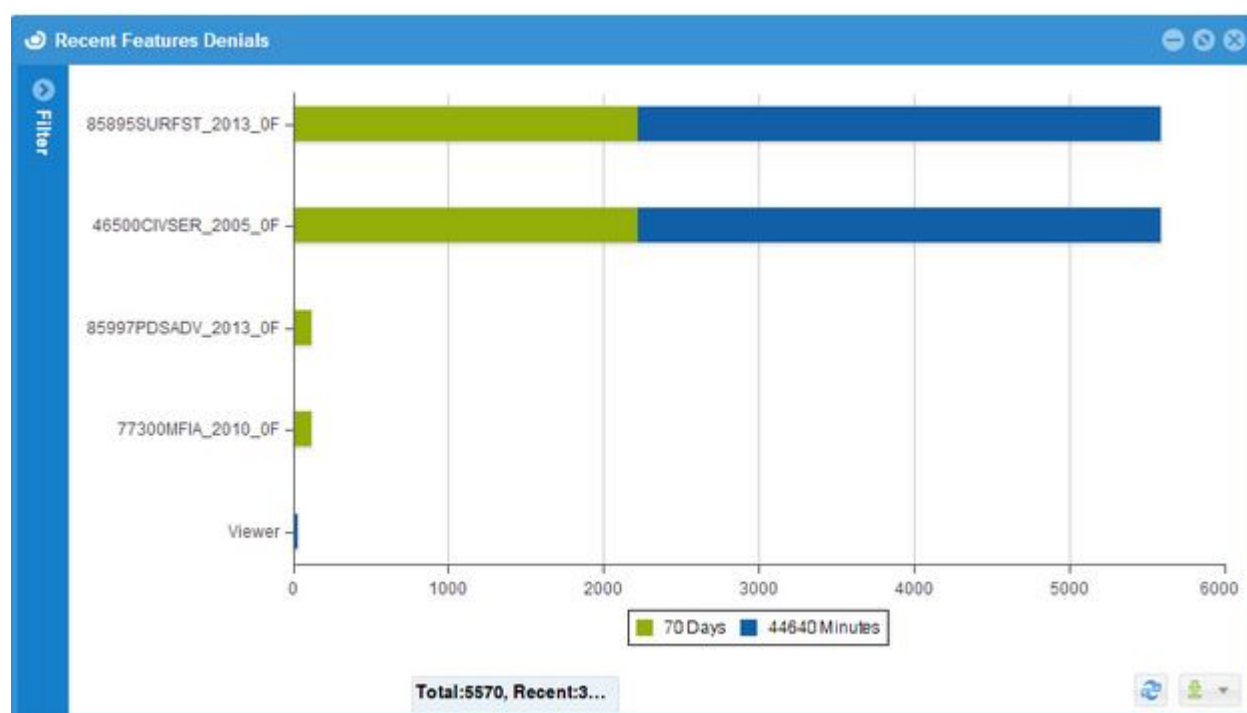
- It may be presented as a pie chart, line or table.
- The filter includes a “True denials” check box. This option filters out irrelevant denial reports made by the license manager. Such irrelevant reports include:
  - Multiple requests made by a specific user in a short period of time, and
  - License requests that have been denied by one server, but granted by another.





## OpenLM EasyAdmin - Widgets - Recent features denials

Click the EasyAdmin 'Start' button, and select 'Widgets' → "Recent feature denials". This window provides preliminary statistic processing of license denials per feature: It presents the number of denied license requests in long term and short term period.



### That's not all.

In addition to the various historical license reports depicted above, OpenLM provides a configurable platform to prepare customized license reports. [Please read more about it here.](#)

Please feel free to turn to [our support team](mailto:support@openlm.com)(support@openlm.com) with any issue or request concerning the reporting of license usage on the OpenLM system.