



Capvidia License Server

Installation & Licensing

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I. Installation and setup of the Capvidia License Server

A. *Hardware and Software Recommendations*

- 1.8 GHz or faster processor. Quad-core or better is recommended.
- At least 4 GB RAM (8 GB is recommended).
- At least 5 GB of available space on the hard disk.
- Keyboard and Mouse or some other compatible pointing device.
- Video adapter and monitor with (1280 x 720) or higher resolution.
- Operating Systems: Windows 10, Windows 8, Windows 7, Windows Server 2008 R2 or higher.
- Platform: 64-bit.
- Microsoft Edge (Chromium) (Canary Channel).

B. *Capvidia License Server*

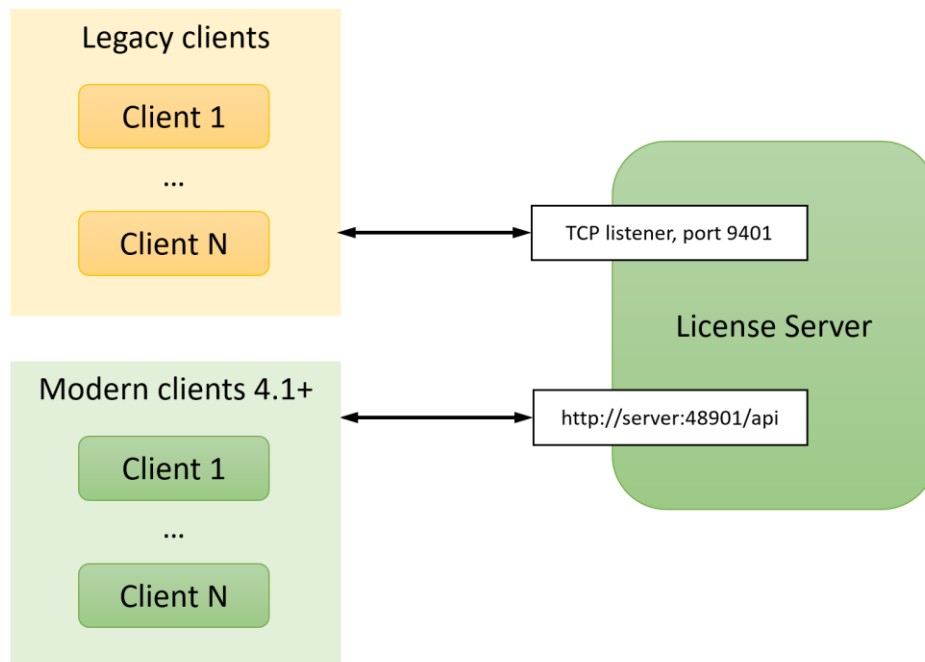
The Capvidia License Server allows users to share licenses for Capvidia products in a network. When a user wishes to use a Capvidia application, a request is made to the license server. If a license is available, it is given to the user. When the user finishes using the application and the license time expires, the license is freed and made available to other users.

The Capvidia License Server Manager application is used to monitor the licenses that are in use, manage licenses, revoke licenses from clients, view server logs, and generate reports with server usage statistics.

C. *License Server and Clients*

The license server can provide floating licenses for the following Capvidia applications:

- MBDVidia
- MBDVidia for Creo
- MBDVidia for NX
- CompareVidia
- FormatWorks
- CATIA-2-SolidCAM
- Pundit CMM
- 3DTransVidia
- KompasVidia



The server supports both new and legacy clients, however the possibilities for working with the legacy clients are limited, please see “Legacy clients”. Legacy client support may be disabled - see “Server configuration”.

D. Installing Capvidia License Server

0. Check the download file size

Check that the download completed and that you have the full archive by comparing the size of the downloaded zip-file with the size mentioned on the official download page

<https://www.capvidia.com/downloads>

1. Administrative rights and Anti-virus applications

Installation of Capvidia License Server requires administrative access to your PC, which is normally provided by your IT department. Be sure you can configure your anti-virus applications (if any active) to allow Capvidia License Server installation.

2. Previous version of Capvidia License Server

If you already have Capvidia License Server installed on your computer, uninstall it before going to the next step.

3. Installation

To install Capvidia License Server run “CapvidiaLicenseServer64_X_X_XXXXXX.exe” and all necessary components will be installed on your computer.

4. Silent installation

A silent installation is the type of installation that you run from the command line to install Capvidia License Server on any machine. Type the following syntax at the command prompt to install Capvidia License Server silently:

CapvidiaLicenseServer64_X_X_XXXXXX.exe -y /s /l=English "/p=d:\soft\CapvidiaLicenseServer"

Where: “d:\soft\CapvidiaLicenseServer” - installation folder.

5. Install Microsoft Edge (Chromium, Canary channel)

The statistics window in Capvidia License Server Manager requires Microsoft Edge (Canary Channel) installed. It can be downloaded with the following link:

<https://www.microsoftedgeinsider.com/en-us/download>



Canary Channel

This browser is installed simultaneously with the production version of MS Edge.

6. Change administrator password

The default password and username are *admin/admin*. We recommend changing the password after the installation of Capvidia License Server Manager, please see “Change administrator password”.

E. Server configuration

The user can change some of the server settings by editing the configuration file. The configuration file is located in the server working directory (“%programdata%\Capvidia\Capvidia License Server\server_config.json”). It is a JSON file. Here are the default options:

```
{
  "administrator": {
    "description": "Administrator",
    "email": "",
    "first_name": "",
    "last_name": "",
    "login": "admin",
    "password": "EfFqkEoBkSDZQCgx",
    "role": "administrator",
    "salt": "52af298d-a4f9-4c03-a3d3-79aea5e1d0a0"
  },
  "listener_port": 48901,
  "listener_protocol": "http",
  "log_exclude_tags": [
    "req=version",
    "req=version2",
    "req=monitor",
    "req=monitor2",
    "req=ping",
    "req=ping_idle",
    "req=ping2",
    "req=GET clients.list",
    "req=GET products.list",
    "req=GET settings.version",
    "req=PUT client.ping"
  ]
}
```

```
],
"log_verbosity": "Info",
"max_idle_time_sec": 10800,
"support_legacy_clients": true,
"version": "2.5"
}
```

Option	Type	Default Value	Description
log_verbosity	Enumeration	Info	Log verbosity level: Debug Info Warning Error Critical None.
administrator	Object	Login: admin Password: admin	Administrator account. The password is stored in a hashed form so do not try to edit it manually.
max_idle_time_sec	Integer	10800 sec (3 h)	The maximum idle time [in seconds] that a client can hold a license.
log_exclude_tags	Array of strings	See defaults above	Specifies tags of messages that should be excluded from the log file.
support_legacy_clients	Boolean	true	true – support the legacy API, false – use only the new API.

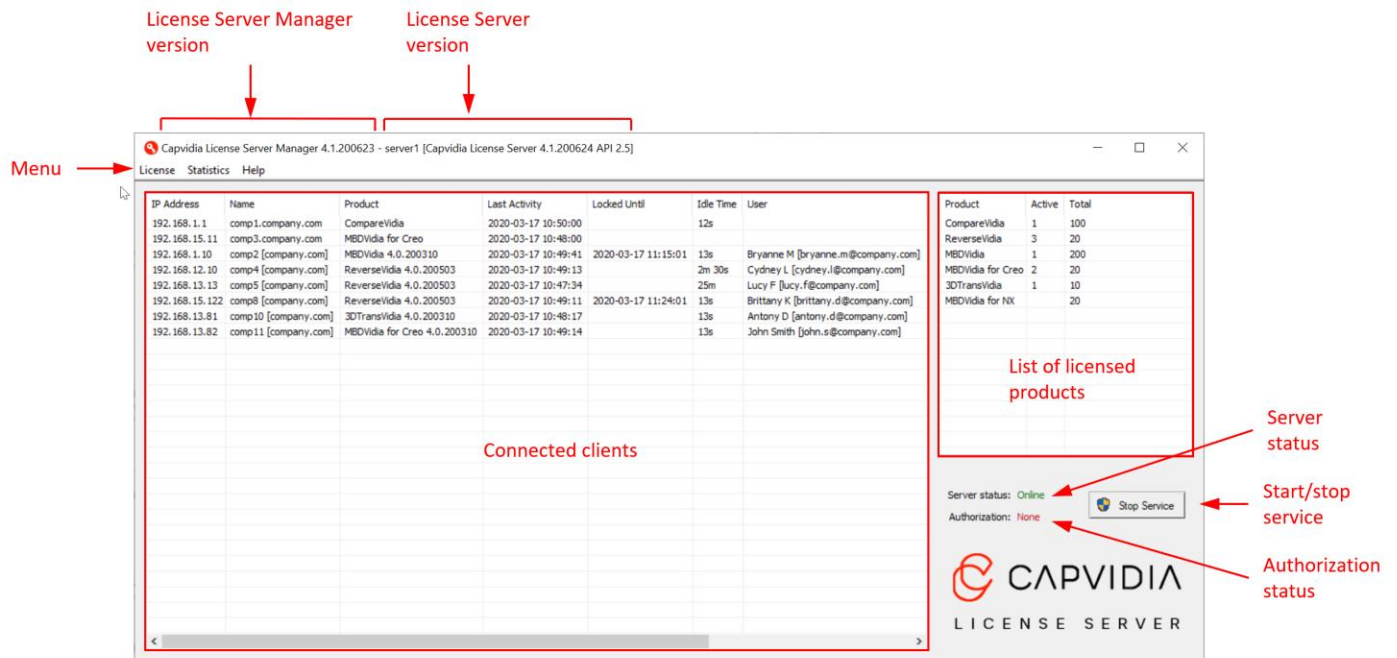
If the configuration file is missing, it is created at the server startup with default settings.

To make changes to this file, you need to stop the service, make changes and start the service, for more information please see “Start / stop License Server service”.

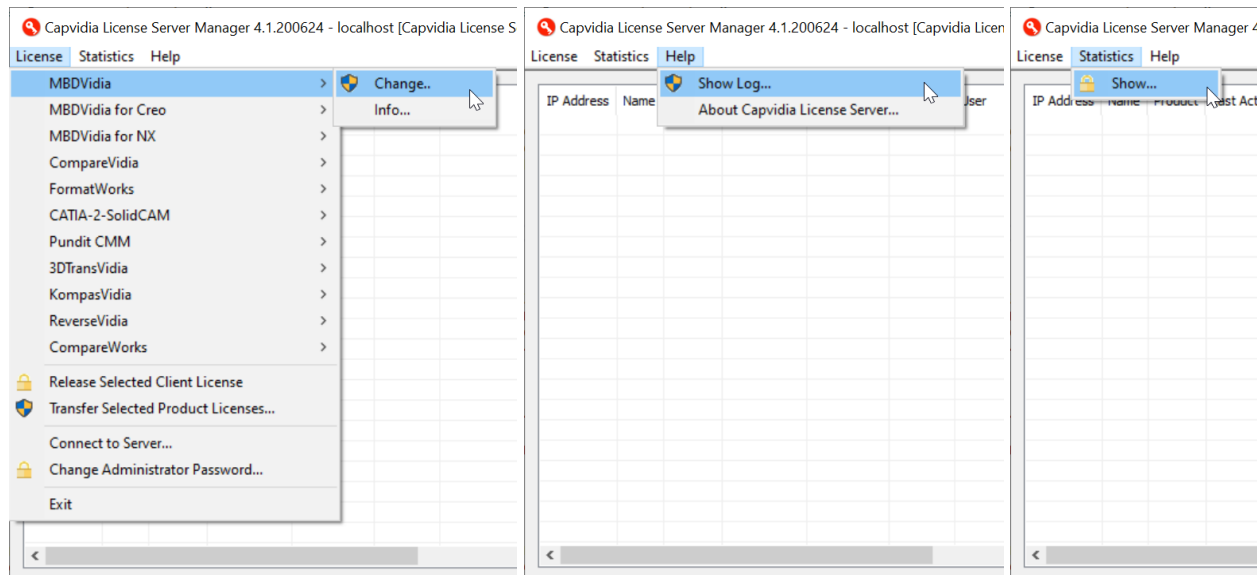
F. Capvidia License Server Manager Interface

1. UI elements

The Capvidia License Manager window:



Application menu:



Operations that require a connection to CLSM with an administrator password are marked by the icon .

Operations that require the launch of CLSM with administrator rights locally on the server machine are marked with an icon .

List of operations:

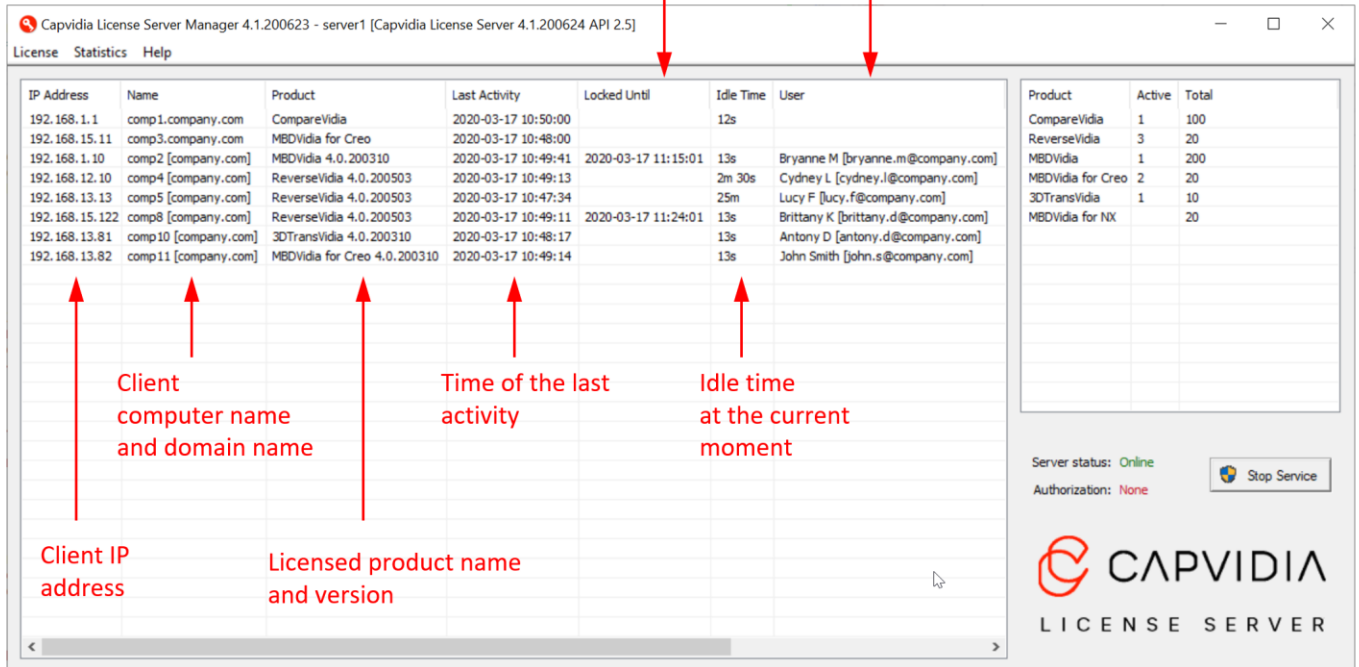
Operation	Limitations	Description
-----------	-------------	-------------

<product>/Change...		Change product license
<product>/Info..		Show product license info
Release Selected Client License		Release selected client license
Transfer Selected Product Licenses...		Transfer selected product licenses
Connect to Server...		Connect to Capvidia License Server
Change Administrator Password...		Change Capvidia License Server administrator password
Show log		Show Capvidia License Server password
Statistics/show		Show Capvidia License Server statistics
Start/Stop service		Start/Stop Capvidia License Server service

2. List of connected clients

Locking time indication

User name and login



Client IP address

Client computer name and domain name

Licensed product name and version

Time of the last activity

Idle time at the current moment

IP Address	Name	Product	Last Activity	Locked Until	Idle Time	User
192.168.1.1	comp1.company.com	CompareVidia	2020-03-17 10:50:00		12s	
192.168.15.11	comp3.company.com	MBDVidia for Creo	2020-03-17 10:48:00			
192.168.1.10	comp2 [company.com]	MBDVidia 4.0.200310	2020-03-17 10:49:41	2020-03-17 11:15:01	13s	Bryanne M [bryanne.m@company.com]
192.168.12.10	comp4 [company.com]	ReverseVidia 4.0.200503	2020-03-17 10:49:13		2m 30s	Cydne L [cydney.l@company.com]
192.168.13.13	comp5 [company.com]	ReverseVidia 4.0.200503	2020-03-17 10:47:34		25m	Lucy F [lucy.f@company.com]
192.168.15.122	comp8 [company.com]	ReverseVidia 4.0.200503	2020-03-17 10:49:11	2020-03-17 11:24:01	13s	Brittany K [brittany.d@company.com]
192.168.13.81	comp10 [company.com]	3DTransVidia 4.0.200310	2020-03-17 10:48:17		13s	Antony D [antony.d@company.com]
192.168.13.82	comp11 [company.com]	MBDVidia for Creo 4.0.200310	2020-03-17 10:49:14		13s	John Smith [john.s@company.com]

Product	Active	Total
CompareVidia	1	100
ReverseVidia	3	20
MBDVidia	1	200
MBDVidia for Creo	2	20
3DTransVidia	1	10
MBDVidia for NX		20

Server status: Online

Authorization: None

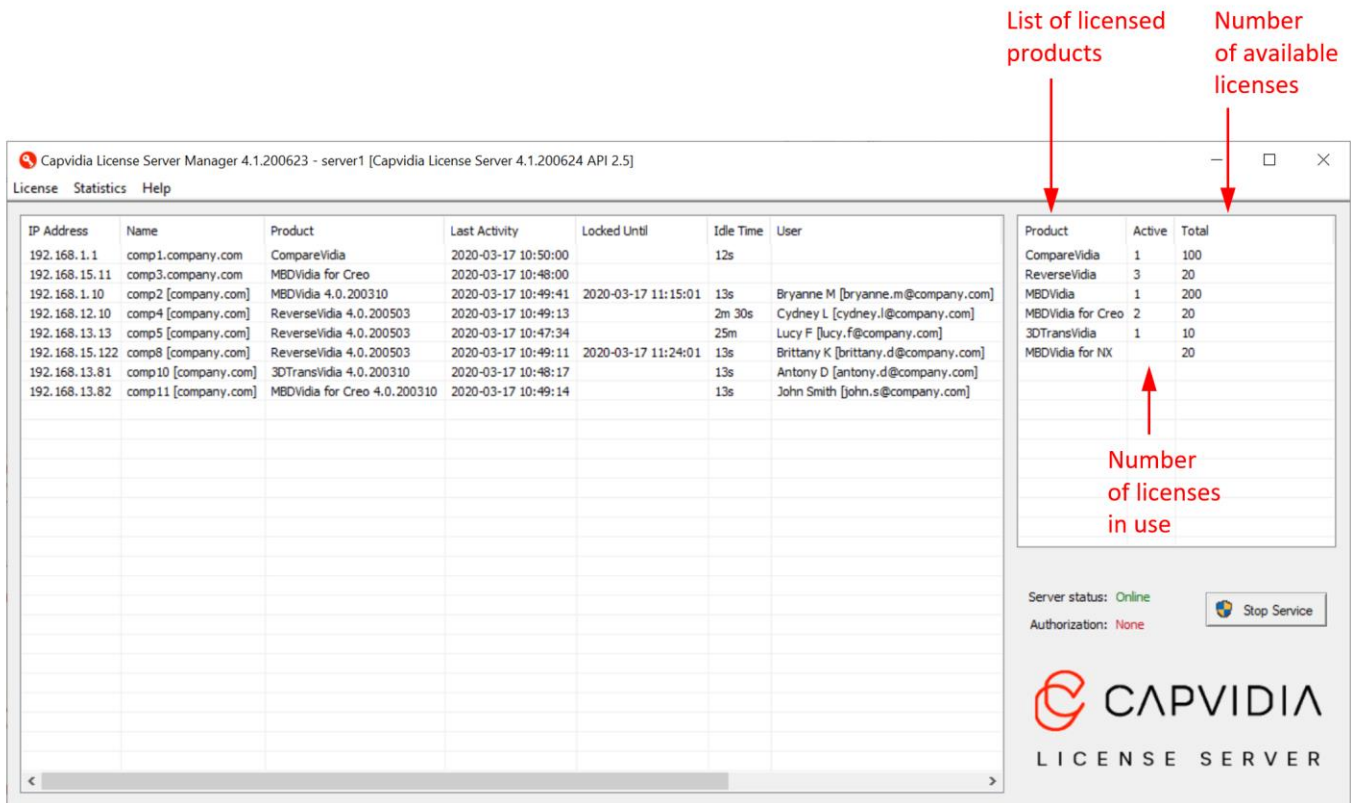
Stop Service

CAPVIDIA
LICENSE SERVER

The locking time indicates for how long the license remains locked after the application license is acquired. By default, when the application is run less than 5 minutes or more than 1 hour the license is not locked. In the column *Locked Until* the user can see the time when the lock will be freed.

The client idle time is time when the client computer is not being used by any program. The license will be freed after exceeding the maximum idle time (3 hours by default). The *Idle Time* parameter can be changed in the server configuration file.

3. List of licensed products



The screenshot shows the Capvidia License Server Manager interface. The main table lists licensed products with columns: IP Address, Name, Product, Last Activity, Locked Until, Idle Time, and User. A summary table on the right shows the number of active licenses and total available licenses for each product.

Product	Active	Total
CompareVidia	1	100
ReverseVidia	3	20
MBDVidia	1	200
MBDVidia for Creo	2	20
3DTransVidia	1	10
MBDVidia for NX	20	20

Annotations in the image point to the 'List of licensed products' (the main table), 'Number of available licenses' (the 'Total' column in the summary table), and 'Number of licenses in use' (the 'Active' column in the summary table).

II. Usage scenarios

Capvidia License Server Manager (CLSM) can be used in various scenarios. CLSM can be run on a remote computer or on a server machine with or without authorization as an administrator. Depending on these conditions, a different set of functions is available.

A. Basic operation

Available operations, when CLSM is launched without administrator authentication:

Operation	Limitations	Description
<product>/Info..		Show product license info

Connect to Server...		Connect to Capvidia License Server
----------------------	--	------------------------------------

B. Remote administrator operations

Available operations, when CLSM is launched remotely with administrator authentication:

Operation	Limitations	Description
<product>/Info..		Show product license info
Release Selected Client License		Release selected client license
Connect to Server...		Connect to Capvidia License Server
Change Administrator Password...		Change Capvidia License Server administrator password
Statistics/show		Show Capvidia License Server statistics

C. Local administrator operations

Available operations when CLSM is running locally with administrator privileges. If there is authorization as a server administrator, operations requiring authorization will also be available (marked with the corresponding icon):

Operation	Limitations	Description
<product>/Change...		Change product license
<product>/Info..		Show product license info
Release Selected Client License		Release selected client license
Transfer Selected Product Licenses...		Transfer selected product licenses
Connect to Server...		Connect to Capvidia License Server
Change Administrator Password...		Change Capvidia License Server administrator password
Show log		Show Capvidia License Server password
Statistics/show		Show Capvidia License Server statistics
Start/Stop service		Start/Stop Capvidia License Server service

D. Start/stop License Server service

The operation requires the launch of CLSM on the computer where the server is installed; CLSM must be started with administrator rights. The connection to the server must be made at the localhost address (this is done by default when CLSM starts).

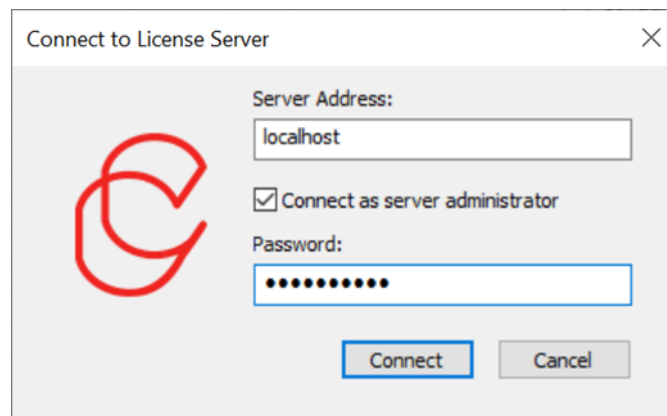
The current status of the service is displayed on the “Start / Stop Service” button. Pressing the button causes the service to start or stop.

After the service starts successfully, the server status is changed to Online, the list of users and products is filled with current data, the title of the connected server is displayed in the title window.

In case of a problem with starting the service, use the command of the Start menu, for more information please see “Manual install / uninstall the Capvidia License Server Service”.

E. Connect to License Server

After you run this command, the connection window will appear:

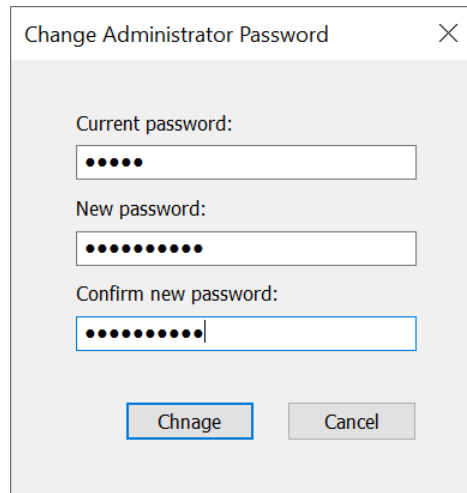


Enter the server address in the Server Address field. If you plan to use commands that require authorization, enable the authorization option and enter the server administrator password.

After the connection is established, the interface will update the authorization status, server status, client list, product list, and server information in the title window.

F. Change administrator password

Administrator password can be changed locally or remotely. After running this command, the following window will appear:



Change Administrator Password

Current password:

New password:

Confirm new password:

Change Cancel

Enter the current password and then a new password twice. The new password must be at least 8 characters long.

After the operation is completed successfully, the new password will be used to reconnect to the server. The authorization status, server status, client list, product list, and server information will be updated in the title window.

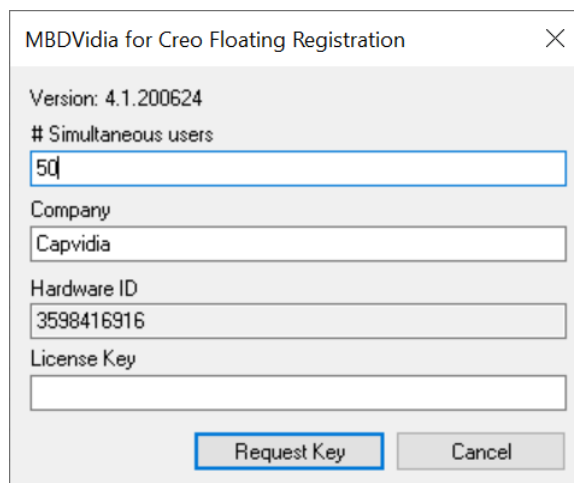
If you lose your password, you can reset it, for more information please see “Server configuration”.

G. *Change licenses*

The operation requires the launch of CLSM on the computer where the server is installed; CLSM must be started with administrator rights. The connection to the server must be made at the localhost address (this is done by default when CLSM starts).

The current status of the service is displayed on the “Start / Stop Service” button. Pressing the button causes the service to start or stop.

Please select the menu item License / <Product> / Change ...:



MBDVidia for Creo Floating Registration

Version: 4.1.200624

Simultaneous users

Company

Hardware ID

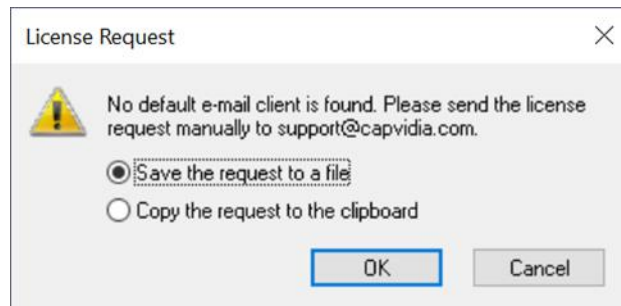
License Key

Request Key Cancel

Enter a number of simultaneous users for the product and a company name.

After you enter the information, push the “Request Key” button. This will automatically create an e-mail with your data attached to be sent to Capvidia support department.¹

If the letter is not sent (for example, the mail program is not available on this computer), then you will be offered to save the request data to a file or clipboard. This data should be sent to support@capvidia.com.



Our support staff will use this information to generate a license key. This key is a combination of 24 letters and characters and will be sent to you via e-mail.

After receiving the license key:

- Start License/<Product>/Change...
- Enter the number of simultaneous users for the product.²
- Type (or copy & paste) the key in the field “License Key”.
- Push the OK button.

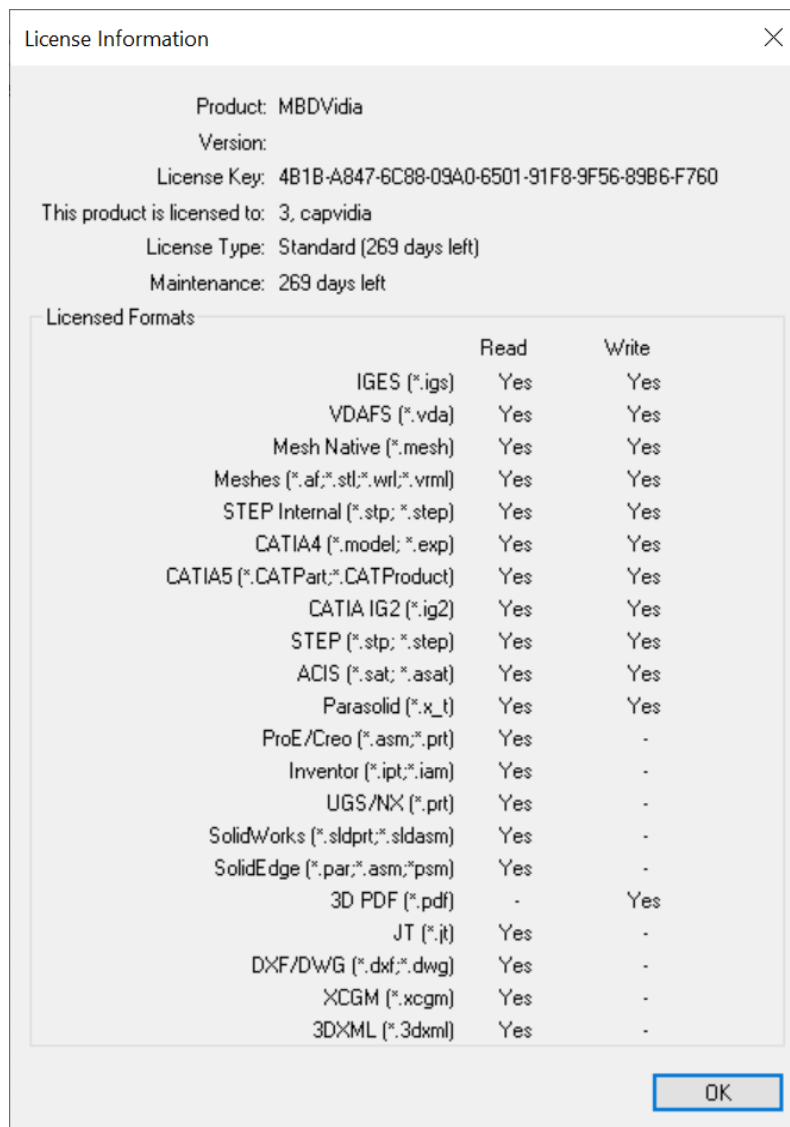
License changes will be reflected in the list of licensed products. You can also view the license info in the Show product license info operation.

H. Show product license info

Product licensing is displayed when CLSM is started remotely or locally. When the License / <Product> / Info ... command is executed, the Information window appears:

¹ If you do not have direct access to the internet choose the “Save” button to store the data in a text file which needs to be sent as an attachment to support@capvidia.com.

² Number of simultaneously allowed users should be equal to the number filled at the license requesting step.



I. *Transfer licenses*

The operation requires the launch of CLSM on the computer where the server is installed; CLSM must be started with administrator rights. The connection to the server must be made at the localhost address (this is done by default when CLSM starts).

Use the menu command *License/Transfer Selected Product Licenses...* to transfer a product license from this licenses server to another. Before running this command select a product (or a set of products) in the list of licensed products. The license of the selected product will be excluded from the current license server and archived to an encrypted zip file to be e-mailed to Capvidia.

J. *Release client license*

The operation can be performed when starting CLSM locally or remotely; the administrator authorization is required.

From the list of clients, select one and run the Licenses / Release Selected Client License command. Confirm the operation in the dialog box that appears. After the operation is completed, the license of the specified client is revoked and attempts to capture the license by this client are blocked during next 5 minutes.

K. Show Capvidia License Server log file

The operation requires the launch of CLSM on the computer where the server is installed; CLSM must be started with administrator rights. The connection to the server has to be made at the localhost address (this is a default setting when starting CLSM).

Select the menu item Help / Show Log ...:

```
server_log.txt - Notepad
File Edit Format View Help
2020-06-25 15:40:22.889 25644 14432 Info [req=GET report.computers_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:40:26.643 25644 26000 Info [req=GET report.computers_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:40:36.754 25644 14432 Info [req=GET report.time_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:40:36.766 25644 14432 Info [req=GET report.time_license_max] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:41:38.166 25644 14432 Info [req=GET report.users_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:41:57.495 25644 2744 Info [req=GET report.users_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:42:12.223 25644 13012 Info [req=GET report.users_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:42:16.815 25644 13012 Info [req=GET report.users_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:43:02.232 25644 13012 Info [req=GET report.computers_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:43:05.353 25644 14432 Info [req=GET report.computers_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:43:17.650 25644 14432 Info [req=GET report.computers_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:44:32.108 25644 26000 Info [req=GET report.users_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:44:33.836 25644 26000 Info [req=GET report.products_users] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:44:34.836 25644 2744 Info [req=GET report.users_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:45:10.381 25644 7696 Info [req=GET report.computers_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:45:21.789 25644 2744 Info [req=GET report.products_users] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:53:36.477 25644 14432 Info [req=GET report.time_products] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:53:36.488 25644 14432 Info [req=GET report.time_license_max] [ver=2.5] [rt] [agent=Capvidia License Server Manager 4.1.200624]
2020-06-25 15:58:03.791 25644 23140 Info [service] stop
2020-06-25 15:58:03.791 25644 23140 Info [service] status = SERVICE_STOP_PENDING, check_point = 1
2020-06-25 15:58:03.791 25644 23140 Info [license_server] Stopping the server
2020-06-25 15:58:03.791 25644 23140 Info [rt] [listener] listening stopped
2020-06-25 15:58:03.798 25644 23140 Info [license_server] [eventlog] The server has been stopped
2020-06-25 15:58:03.799 25644 23140 Info [service] status = SERVICE_STOPPED, exit_code = 0
2020-06-25 15:58:03.799 25644 23140 Info [rt] [eventlog] Server stopped
2020-06-25 15:59:06.737 18108 9424 Info [license_server] Capvidia License Server 4.1.200624
2020-06-25 15:59:06.737 18108 9424 Info [license_server] getProfileFolder() = 'C:\ProgramData\Capvidia\Capvidia License Server'
2020-06-25 15:59:06.738 18108 9424 Info [license_server] tempFolder() = 'C:\ProgramData\Capvidia\Capvidia License Server\temp'
2020-06-25 15:59:06.738 18108 9424 Info [service] CService::start name = 'Capvidia License Server'
2020-06-25 15:59:06.738 18108 21280 Info [service] CService::main
2020-06-25 15:59:06.738 18108 21280 Info [service] arg[0] = 'Capvidia License Server'
2020-06-25 15:59:06.738 18108 21280 Info [service] status = SERVICE_START_PENDING, check_point = 1
2020-06-25 15:59:06.738 18108 21280 Info [service] CService::start
2020-06-25 15:59:06.738 18108 21280 Info [license_server] Starting 'Capvidia License Server 4.1.200624' (service)
2020-06-25 15:59:06.738 18108 21280 Info [license_server] Server internal version: 2.5.
2020-06-25 15:59:06.738 18108 21280 Info [license_server] Server API version: 2.5.
2020-06-25 15:59:06.738 18108 21280 Info [license_server] Host ID = 3598416916
2020-06-25 15:59:06.738 18108 21280 Info [license_server] Profile folder = 'C:\ProgramData\Capvidia\Capvidia License Server'
2020-06-25 15:59:06.738 18108 21280 Info [license_server] License folder = 'C:\ProgramData\Capvidia\Capvidia License Server\licenses'
2020-06-25 15:59:06.738 18108 21280 Info [license_server] Configuration file = 'C:\ProgramData\Capvidia\Capvidia License Server\server'
2020-06-25 15:59:06.739 18108 21280 Info [license_server] Log file = 'C:\ProgramData\Capvidia\Capvidia License Server\server_log.txt'
```

File location on the server: "%programdata%\Capvidia\Capvidia License Server\server_log.txt".

III. Statistics Overview

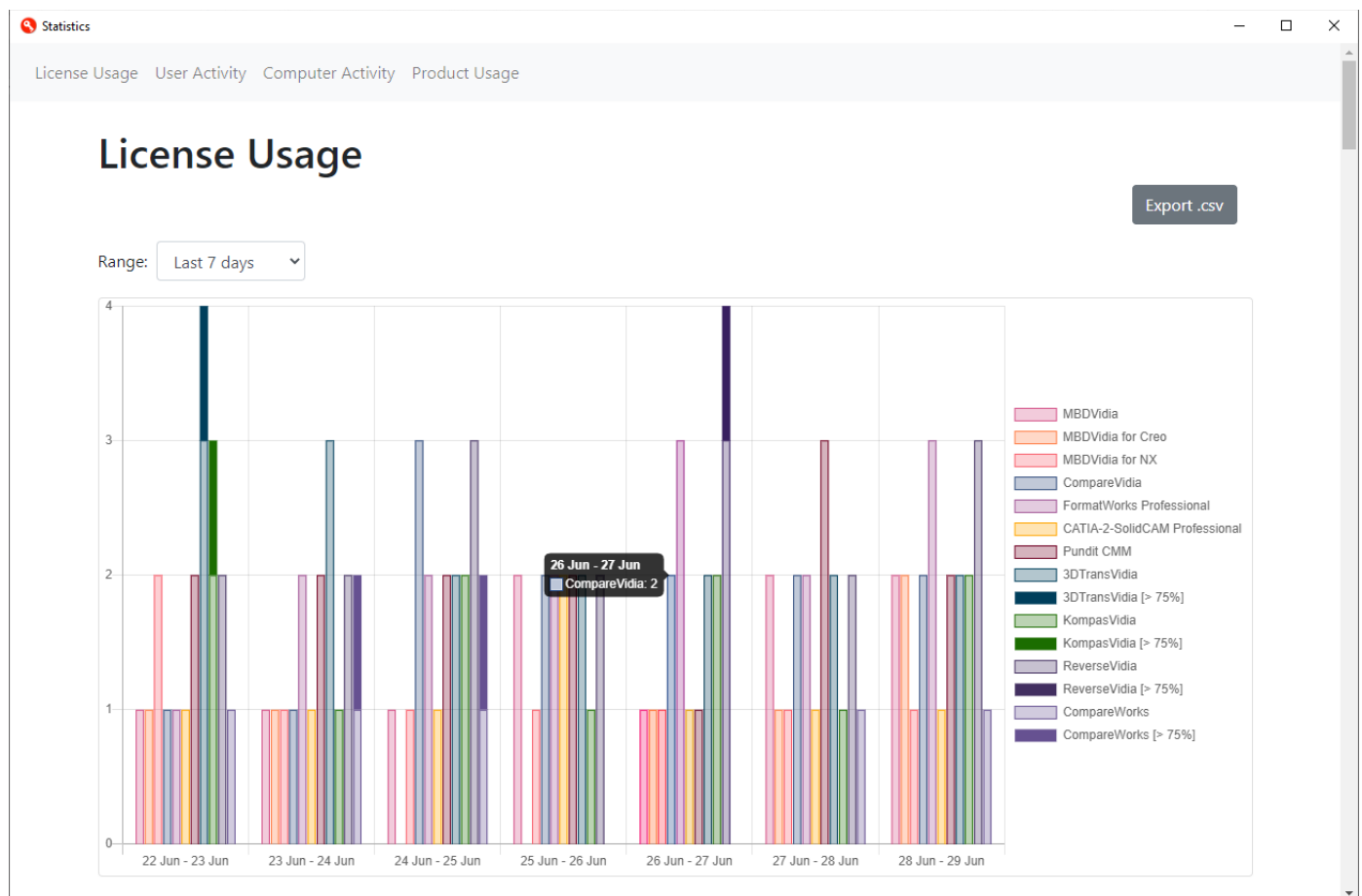
Statistics display is available when starting CLSM locally or remotely; the administrator authorization is required.

This component requires Microsoft Edge (Canary channel) to be installed, please see “Installing Capvidia License Server” or “Installing Capvidia License Server Manager”. In case of a problem with this component, you will be prompted to follow the link and install Microsoft Edge.

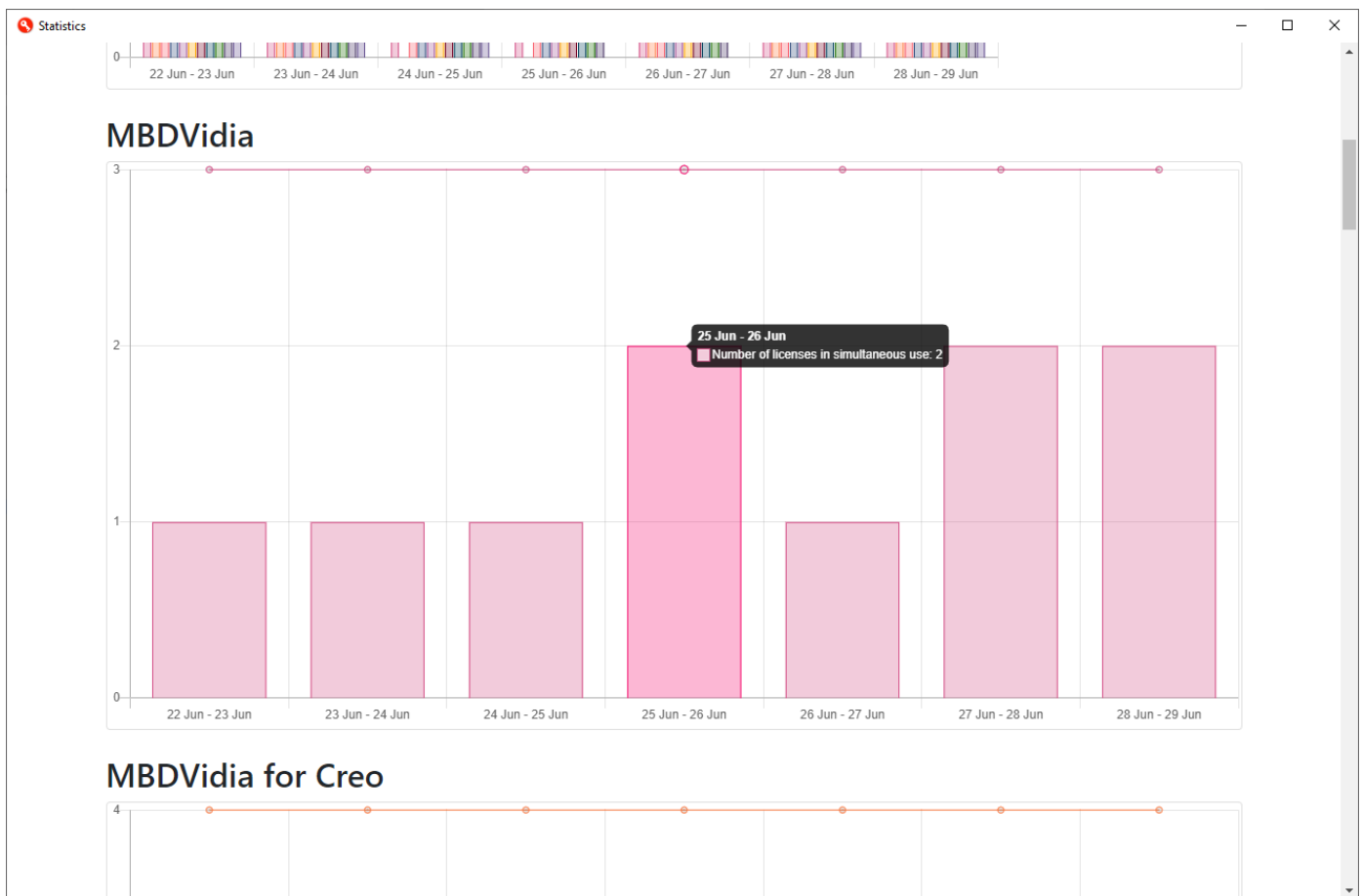
A. *License usage*

The license usage shows the maximum number of concurrently used product licenses on a given set of intervals.

The first chart shows information for all products:



In addition below the main chart you can find diagrams for each separate product. These diagrams contain a curve that shows the maximum number of available licenses for the product.



The legends in the diagrams are interactive, you can set a filter for each product.

The following intervals can be set to view the statistics:

- Last 365 days
- Last 30 days
- Last 7 days (default)
- Last day
- Last hour
- Custom

If the “Custom” type is selected, set the begin and end parameters of the interval manually and choose a number of interval spans.

Range: Custom Begin: 06/18/2020 12:00 AM End: 06/25/2020 12:00 AM Number of Spans: 5

The report can be saved in CSV format by using the “Export CSV” button:

	A	B	C	D	E	F	G	H	I	J	K
1	begin	end	num_max	num	duration_sec	num_max_3DTransVidia	num_3DTransVidia	duration_sec_3DTransVidia	num_max_CompareVidia	num_CompareVidia	duration_sec_CompareVidia
2	18.06.2020 15:34	19.06.2020 15:34	8	38	232290		1	1	9900	3	5
3	19.06.2020 15:34	20.06.2020 15:34	8	35	233230		3	6	23250	2	3
4	20.06.2020 15:34	21.06.2020 15:34	8	39	268310		3	5	24810	1	2
5	21.06.2020 15:34	22.06.2020 15:34	9	40	247780		3	6	21570	1	3
6	22.06.2020 15:34	23.06.2020 15:34	8	35	240280		3	5	13040	1	3
7	23.06.2020 15:34	24.06.2020 15:34	8	40	222370		4	10	53350	1	2
8	24.06.2020 15:34	25.06.2020 15:34	7	20	147450		1	1	10260	2	2
9											

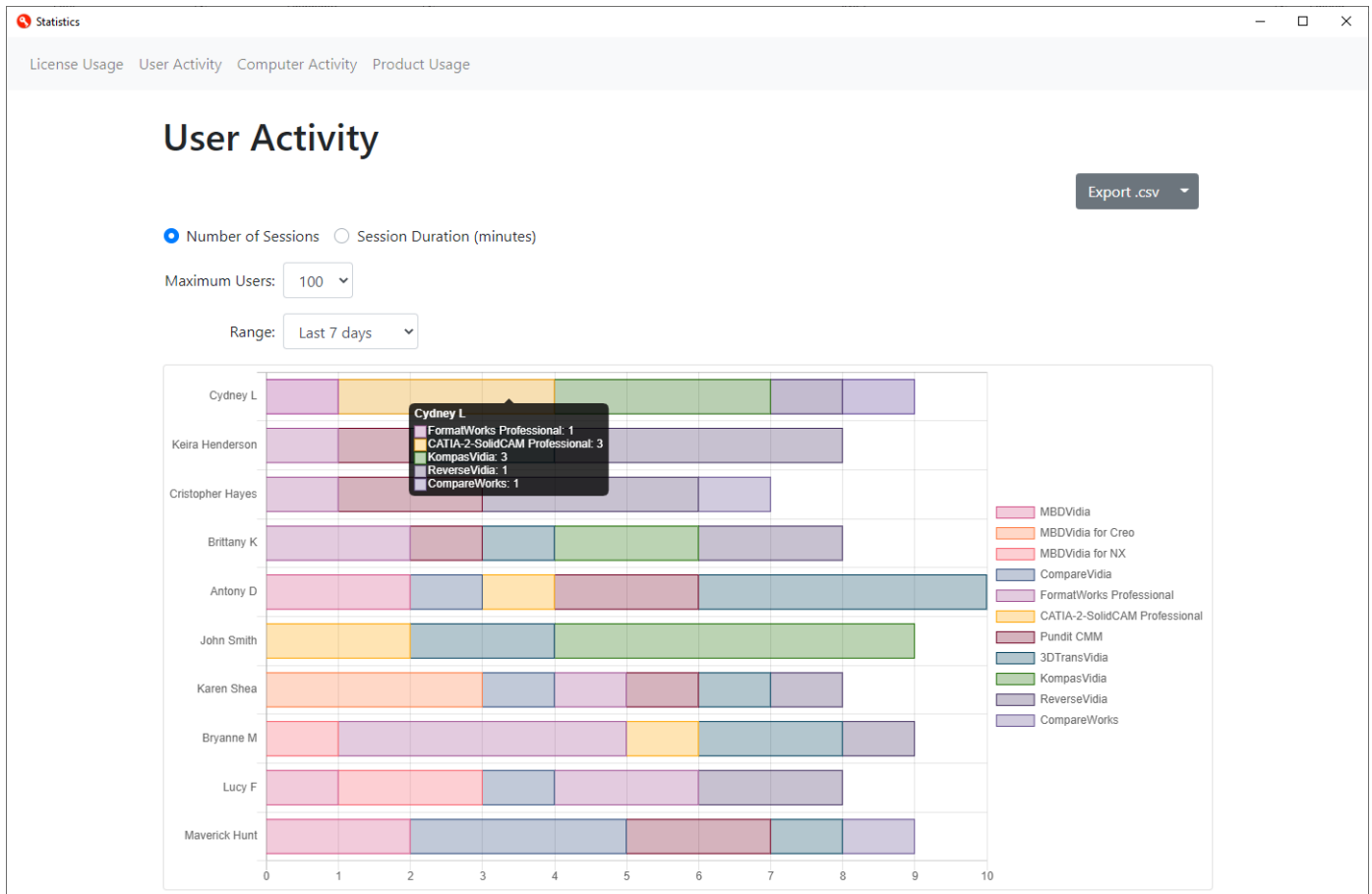
Each row in the CSV table represents a time interval, where the columns are:

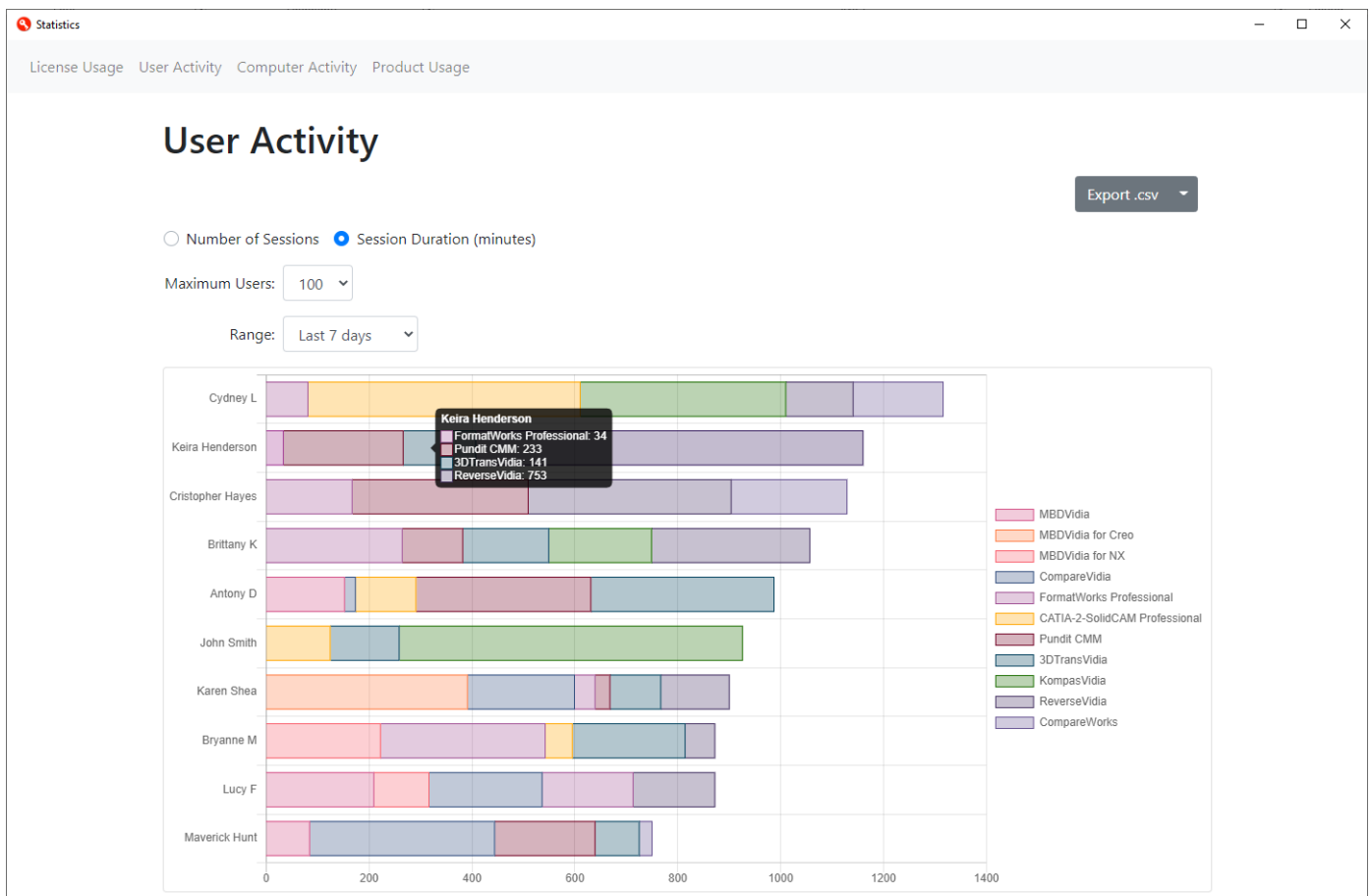
column	Type	Description
begin	Time	Interval start
end	Time	Interval end
num_max	Integer	The maximum number of concurrently used licenses (maximum of all num_max_ <product>)
num	Integer	The total number of sessions for all products
duration_sec	Integer	The total duration of sessions for all products
num_max_<product>	Integer	The maximum number of concurrent licenses for the <product>
num_<product>	Integer	The total number of sessions for the <product>
duration_sec_<product>	Integer	The total duration of sessions for the <product>
... other products ...	...	...

B. User activity

Shows statistics on the use of products by individual users at a given time interval.

A separate horizontal bar is displayed for each user with data on the products used. In the “Number of Sessions” mode, the total number of running sessions is displayed, and in the “Session duration (minutes)” mode - the total time the products are used in minutes.





The legends of the diagrams are interactive, you can set a filter for each product.

The maximum allowed number of displayed users is 100 (default); this value can be changed in the “Maximum Users” field.

The following intervals can be set to view the statistics:

- Last 365 days
- Last 30 days
- Last 7 days (default)
- Last day
- Last hour
- Custom

If you select “Custom,” set the interval manually.

Range: Custom Begin: 08/19/2011 01:45 PM End: 08/19/2011 01:45 PM

The report can be saved in CSV format (“Export CSV” button). The drop down button “Export CSV” allows you to export the entire report (Export All) or only the information on the screen (Export Selected - the default option). The “Export All” can be useful if there are more than 100 users.

	A	B	C	D	E	F	G	H	I	J	K	L
1	user_id	user_name	user_name_display	num_max	num	duration_sec	num_max_3DTransVidia	num_3DTransVidia	duration_sec_3DTransVidia	num_max_CompareVidia	num_CompareVidia	duration_sec_CompareVidia
2	5	john.smith@domain2.company.com	John Smith	1	22	170282	1	5	25320			
3	8	crisopher.hayes@domain2.company.com	Cristopher Hayes	1	20	153120	1	2	7080	1	1	5520
4	9	maverick.hunt@domain2.company.com	Maverick Hunt	1	19	152880	1	4	36660	1	5	47880
5	3	brittany.k@domain1.company.com	Brittany K	1	18	151680	1	2	15120			
6	7	keira.henderson@domain2.company.com	Keira Henderson	1	19	149520	1	2	8460			
7	1	cydney.l@domain1.company.com	Cydney L	1	23	149100	1	2	2700			
8	6	karen.shea@domain2.company.com	Karen Shea	1	20	146882	1	1	5940	1	1	12480
9	4	antony.d@domain1.company.com	Antony D	1	21	143880	1	5	25320	1	4	29640
10	0	bryanne.m@domain1.company.com	Bryanne M	1	19	140042	1	3	18662	1	4	31200
11	2	lucy.f@domain1.company.com	Lucy F	1	20	134642	1	1	6540	1	2	14280
12												

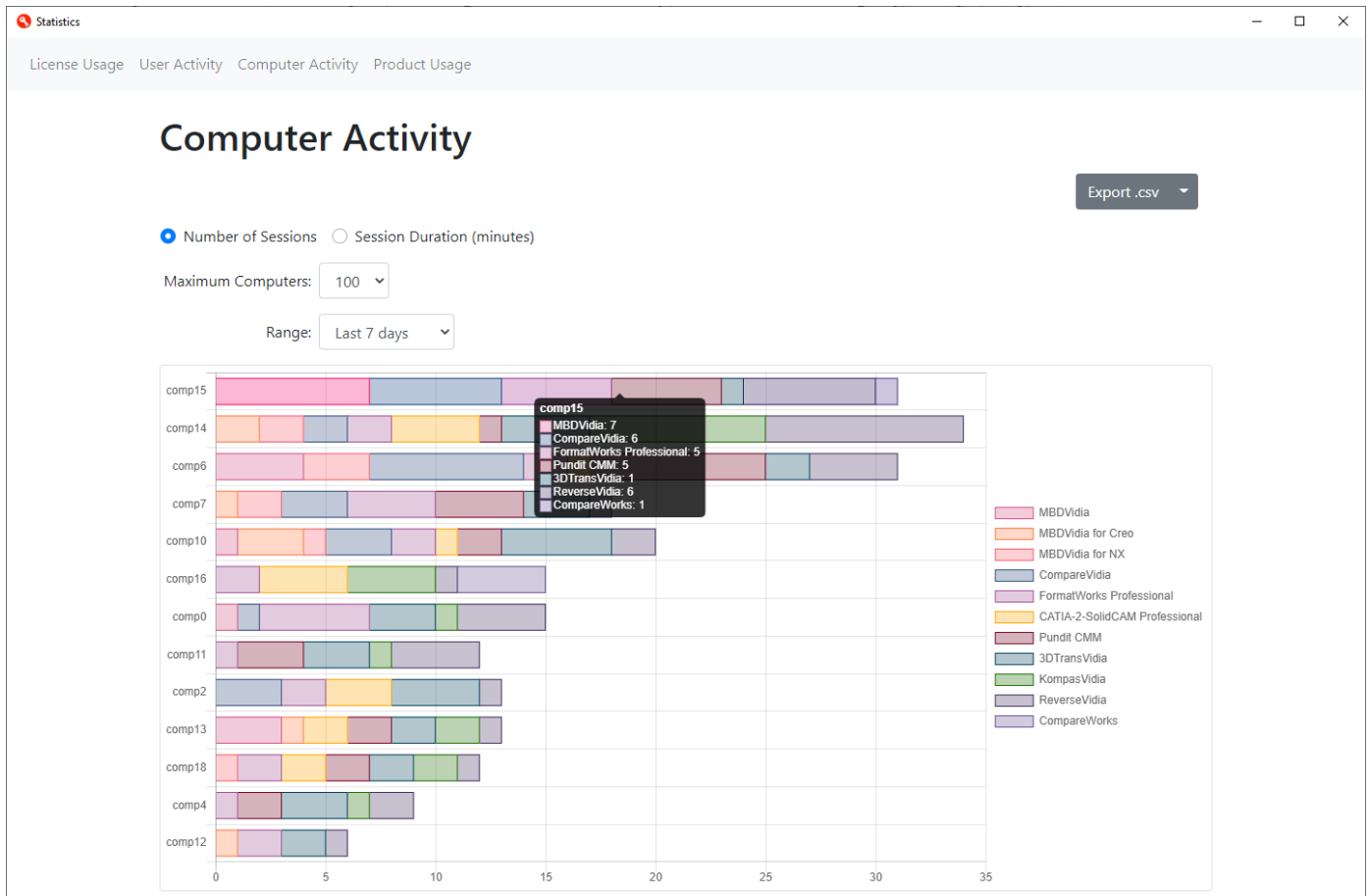
Each row in the table represents data for one user, where the columns are:

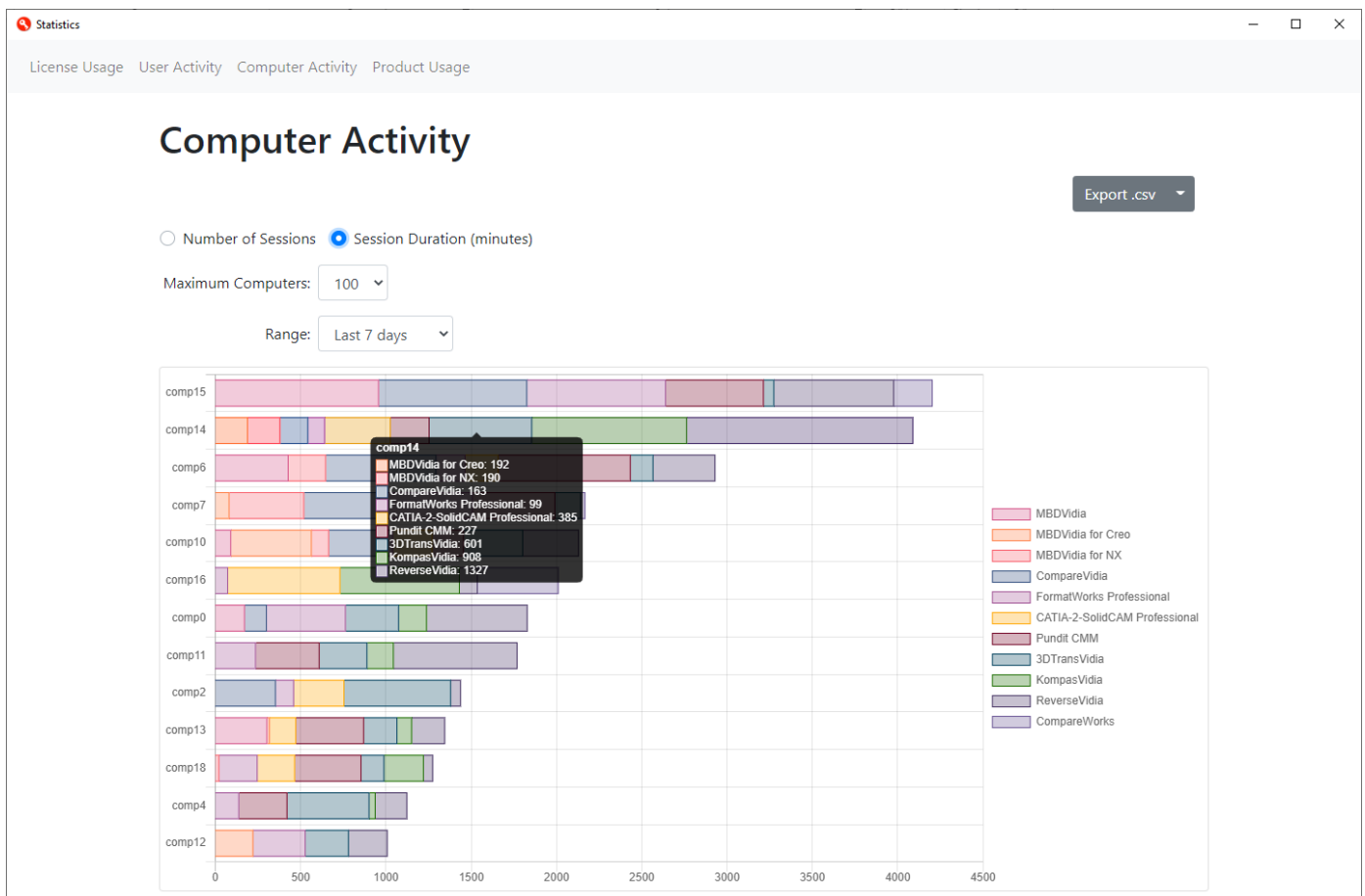
column	Type	Description
user_id	Integer	User identifier (internal)
user_name	String	Username login@domain
user_name_display	String	Display user name
num_max	Integer	The maximum number of concurrently used licenses (maximum of all num_max_<product>)
num	Integer	The total number of sessions for all products
duration_sec	Integer	The total duration of sessions for all products
num_max_<product>	Integer	The maximum number of concurrent licenses for the <product>
num_<product>	Integer	The total number of sessions for the <product>
duration_sec_<product>	Integer	The total duration of sessions for the <product>
... other products ...	...	...

C. Computer activity

Show statistics of product usage on different computers at a given time interval.

Each computer is displayed by a separate horizontal bar. In the “Number of Sessions” mode, the total number of running sessions is displayed, and in the “Session duration (minutes)” mode - the total time the products are used in minutes.





The legends of the diagrams are interactive, you can set a filter for each product.

The maximum allowed number of displayed computers is 100 (default), this value can be changed in the “Maximum Computers” field.

The following intervals can be set to view the statistics:

- Last 365 days
- Last 30 days
- Last 7 days (default)
- Last day
- Last hour
- Custom

If you select “Custom,” set the interval manually.

Range: Custom Begin: 08/19/2011 01:45 PM End: 08/19/2011 01:45 PM

The report can be saved in CSV format (“Export CSV” button). The drop down button “Export CSV” allows you to export the entire report (Export All) or only the information on the screen (Export Selected - the default option). Export All can be useful if there are more than 100 computers.

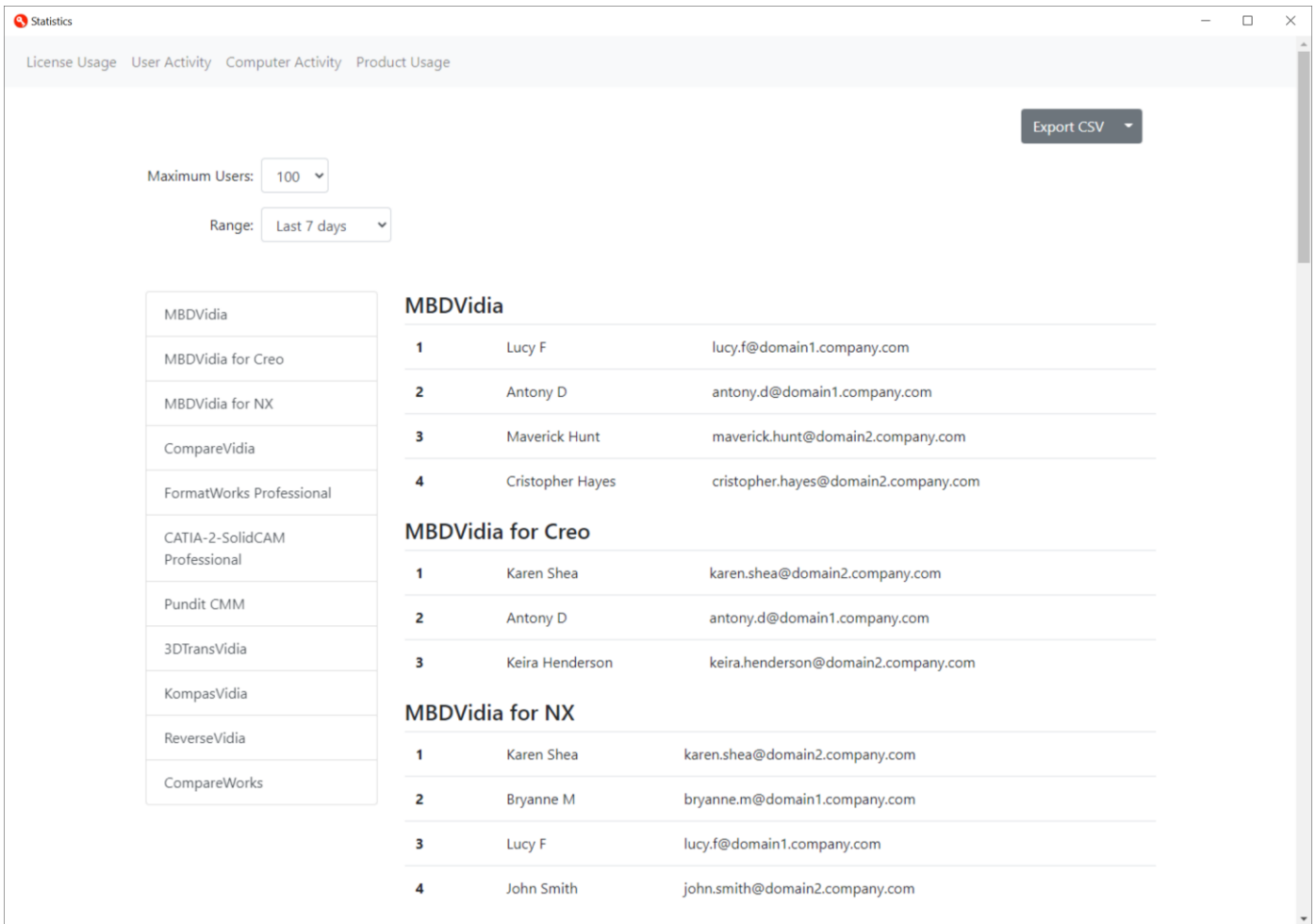
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	computer_id	hardware_id	computer_name	computer_domain	computer_addr	num_max	num	duration_sec	num_max_3DTransVidia	num_3DTransVidia	duration_sec_3DTransVidia	num_max_CompareVidia	num_CompareVidia	duration_sec_CompareVidia
2	14	14 comp14	domain2.company.com	192.168.0.4	3	40	287143	1	3	19500				
3	15	15 comp15	domain2.company.com	192.168.0.5	2	32	245983	1	3	13620		1	3	19800
4	6	6 comp6	domain1.company.com	192.168.0.6	2	21	151740	1	2	16740		1	4	39060
5	7	7 comp7	domain1.company.com	192.168.0.7	2	19	148860	1	4	31200		1	4	30660
6	10	10 comp10	domain2.company.com	192.168.0.0	2	20	125323	1	4	23460		1	3	21163
7	11	11 comp11	domain2.company.com	192.168.0.1	1	14	107040	1	1	1440				
8	13	13 comp13	domain2.company.com	192.168.0.3	1	13	98880	1	1	1860		1	3	28380
9	16	16 comp16	domain2.company.com	192.168.0.6	1	12	92280	1	2	2700				
10	0	0 comp0	domain1.company.com	192.168.0.0	1	8	80100	1	1	10020				
11	4	4 comp4	domain1.company.com	192.168.0.4	1	11	79680	1	1	5100				
12	2	2 comp2	domain1.company.com	192.168.0.2	1	11	71520	1	1	11760		1	1	9360
13	12	12 comp12	domain2.company.com	192.168.0.2	1	7	58080	1	1	7020				
14	18	18 comp18	domain2.company.com	192.168.0.8	1	7	45000	1	3	11760				
15														
16														

Each row in the table represents data for one computer, where the columns are:

column	Type	Description
computer_id	Integer	Computer ID (internal)
hardware_id	String	Hardware ID
computer_name	String	Computer name
computer_domain	String	Computer domain
num_max	Integer	The maximum number of concurrently used licenses (maximum of all num_max_ <product>)
num	Integer	The total number of sessions for all products
duration_sec	Integer	The total duration of sessions for all products
num_max_<product>	Integer	The maximum number of concurrent licenses for the product <product>
num_<product>	Integer	The total number of sessions for the <product>
duration_sec_<product>	Integer	The total duration of sessions for the <product>
... other products ...	...	...

D. Product usage

Shows users who used the product at a given time interval.



Statistics

License Usage User Activity Computer Activity Product Usage

Maximum Users: 100

Range: Last 7 days

Export CSV

Product	User ID	User Name	User Email
MBDVidia	1	Lucy F	lucy.f@domain1.company.com
	2	Antony D	antony.d@domain1.company.com
	3	Maverick Hunt	maverick.hunt@domain2.company.com
	4	Cristopher Hayes	cristopher.hayes@domain2.company.com
MBDVidia for Creo	1	Karen Shea	karen.shea@domain2.company.com
	2	Antony D	antony.d@domain1.company.com
	3	Keira Henderson	keira.henderson@domain2.company.com
MBDVidia for NX	1	Karen Shea	karen.shea@domain2.company.com
	2	Bryanne M	bryanne.m@domain1.company.com
	3	Lucy F	lucy.f@domain1.company.com
	4	John Smith	john.smith@domain2.company.com

The product list is interactive, allowing you to quickly switch to the corresponding product.

The maximum allowed number of displayed users is 100 (default), this value can be changed in the “Maximum Users” field.

The following intervals can be set to view the statistics:

- Last 365 days
- Last 30 days
- Last 7 days (default)
- Last day
- Last hour
- Custom

If you select “Custom,” set the interval manually.

Range: Custom Begin: 08/19/2011 01:45 PM End: 08/19/2011 01:45 PM

The report can be saved in CSV format (“Export CSV” button). The drop down button “Export CSV” allows you to export the entire report (Export All) or only the information on the screen (Export Selected - the default option). “Export All” can be useful if there are more than 100 users.

	A	B	C	D	E	F	G
1	product	num_max	num	duration_sec	num_max_maverick.hunt@domain2.company.com	num_maverick.hunt@domain2.company.com	duration_sec_maverick.hunt@domain2.company.com
2	3DTransVidia	4	27	151668	1	4	36660
3	FormatWorks Professional	4	26	169728			
4	ReverseVidia	3	34	258588			
5	Pundit CMM	5	32	286608	1	5	39360
6	CompareVidia	3	17	141000	1	5	47880
7	KompasVidia	3	15	120180			
8	CompareWorks	2	9	68340	1	2	9660
9	CATIA-2-SolidCAM Professional	2	13	96960			
10	MBDVidia for NX	2	7	50280			
11	MBDVidia	2	14	103920	1	3	19320
12	MBDVidia for Creo	1	7	44220			
13							

Each row in the table represents data for one product, where the columns are:

column	Type	Description
product	String	Product name
num_max	Integer	The maximum number of concurrently used licenses (maximum of all num_max_ <product>)
num	Integer	The total number of sessions for all products
duration_sec	Integer	The total duration of sessions for all products
num_max_<user>	Integer	The maximum number of concurrent licenses for user <user>
num_<user>	Integer	The total number of sessions for user <user>
duration_sec_<user>	Integer	The total duration of sessions for user <user>
... other users ...	...	...

IV. Capvidia License Server Manager

Additionally, the “Capvidia License Server Manager” application for remote monitoring and server management can be installed separately on a client computer.

A. *Installing Capvidia License Server Manager*

0. **Check the download file size**

Check that the download completed and that you have the full archive by comparing the size of the downloaded zip-file with the size mentioned on the official download page

<https://www.capvidia.com/downloads>

1. **Administrative rights and Anti-virus applications**

Installation of Capvidia License Server Manager requires administrative access to your PC, which is normally provided by your IT department. Be sure you can configure your anti-virus applications (if any active) to allow Capvidia License Server Manager installation.

2. **Previous version of Capvidia License Server Manager**

If you already have Capvidia License Server Manager installed on your computer, uninstall it before going to the next step.

3. **Installation**

To install Capvidia License Server Manager run

“CapvidiaLicenseServerManager64_X_X_XXXXXX.exe” and all necessary components will be installed on your computer.

4. **Silent installation**

A silent installation is the type of installation that you run from the command line to install Capvidia License Server Manager on any machine. Type the following syntax at the command prompt to install Capvidia License Server Manager silently:

CapvidiaLicenseServerManager64_X_X_XXXXXX.exe -y /s /l=English

"/p=d:\soft\CapvidiaLicenseServerManager"

Where: “d:\soft\CapvidiaLicenseServerManager” - installation folder.

7. **Install Microsoft Edge (Chromium, Canary channel)**

The statistics window in Capvidia License Server Manager requires Microsoft Edge (Canary Channel) installed. If it is not installed at your computer, it can be downloaded from the application.

This browser is installed simultaneously with the production version of MS Edge.

B. *Firewall settings*

See “Installing Capvidia License Server/Firewall Settings”.

V. Troubleshooting and advanced settings

A. *Installing the Capvidia License Server as a Service*

During installation, the LS is automatically registered as a service with autorun and is automatically started. When you uninstall the application, the service stops and is removed from the system automatically.

On Microsoft Windows operating systems, a Windows service is a long-running executable that performs specific functions, and which is designed not to require user intervention. Windows services can be configured to start when the operating system is booted and run in the background as long as Windows is running, or they can be started manually when required.

Once a service is installed, it can be managed by launching "Services" from the Windows Control Panel → Administrative Tools or typing "Services.msc" in the Run command on Start menu. The "Services" management console provides a brief description of the service functions and displays the path to the service executable, its current status, startup type, dependencies and the account under which the service is running. It enables users to:

- Start, stop, pause or restart services.
- Specify service parameters.
- Change the startup type which includes Automatic, Manual and Disabled:
 - Automatic - starts the services at system logon.
 - Manual - starts a service as required or when called from an application (according to definition, but only some of the time in practice, depending on the service).
 - Disabled - completely disables the service and prevents it and its dependencies from running.
 - Automatic (Delayed) is a startup type introduced in Windows Vista, that starts the service a short while after the system has finished booting and initial busy operations, so that the system boots up faster.

B. *Manual install/uninstall the Capvidia License Server Service*

Normally, the shortcuts are not required, as the service is installed automatically in the installer and is deleted in the uninstaller. However, in case of an unexpected problem, these shortcuts can be used to view the diagnostics.

There are two shortcuts "*Service Install*" and "*Service Uninstall*" placed in the *Capvidia License Server* folder: *Start* menu → Capvidia → Capvidia License Server.

The first, "*Service Install*" does the following:

- installs the service
- puts it in automatic start mode

- starts the service

If server starts successfully you can see a window with message like this:

```
C:\Windows\system32\cmd.exe

C:\Program Files\Capvidia\Capvidia License Server x64 Edition>"license_server_service.exe" create_service "C:\ProgramData\Capvidia\Capvidia License Server"
[SC] ChangeServiceConfig SUCCESS

C:\Program Files\Capvidia\Capvidia License Server x64 Edition>net start "Capvidia License Server"
The Capvidia License Server 4.1.200624 service is starting.
The Capvidia License Server 4.1.200624 service was started successfully.

Press any key to continue . . .
```

When trying to start an already running service message like this appears:

```
C:\Windows\system32\cmd.exe

C:\Program Files\Capvidia\Capvidia License Server x64 Edition>"license_server_service.exe" create_service "C:\ProgramData\Capvidia\Capvidia License Server"
[SC] ChangeServiceConfig SUCCESS

C:\Program Files\Capvidia\Capvidia License Server x64 Edition>net start "Capvidia License Server"
The requested service has already been started.

More help is available by typing NET HELPMSG 2182.

Press any key to continue . . .
```

You can close the window by pressing a "Close" button or by pressing any key.

The second one, "*Service Uninstall*", does the following:

- stops the service
- uninstalls the service

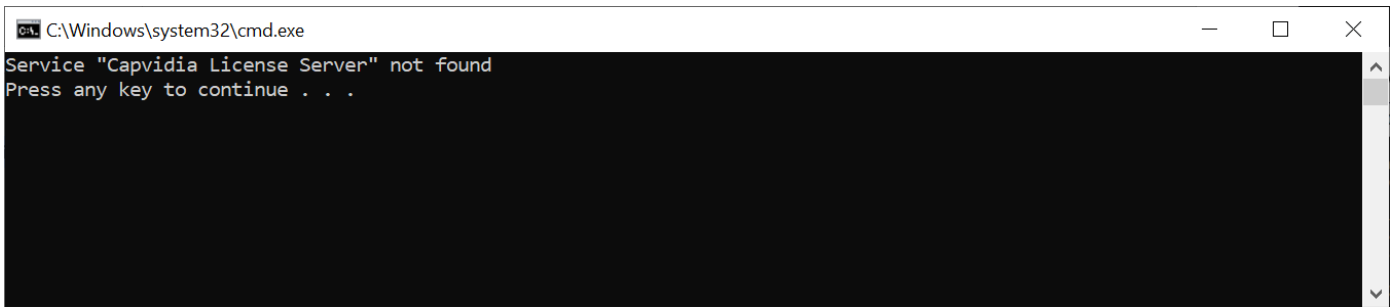
If server stops successfully you can see a window with message like this:

```
C:\Windows\system32\cmd.exe

C:\Program Files\Capvidia\Capvidia License Server x64 Edition>net stop "Capvidia License Server"
The Capvidia License Server 4.1.200624 service was stopped successfully.

C:\Program Files\Capvidia\Capvidia License Server x64 Edition>sc delete "Capvidia License Server"
[SC] DeleteService SUCCESS
Press any key to continue . . .
```

When service not found message like this appears:

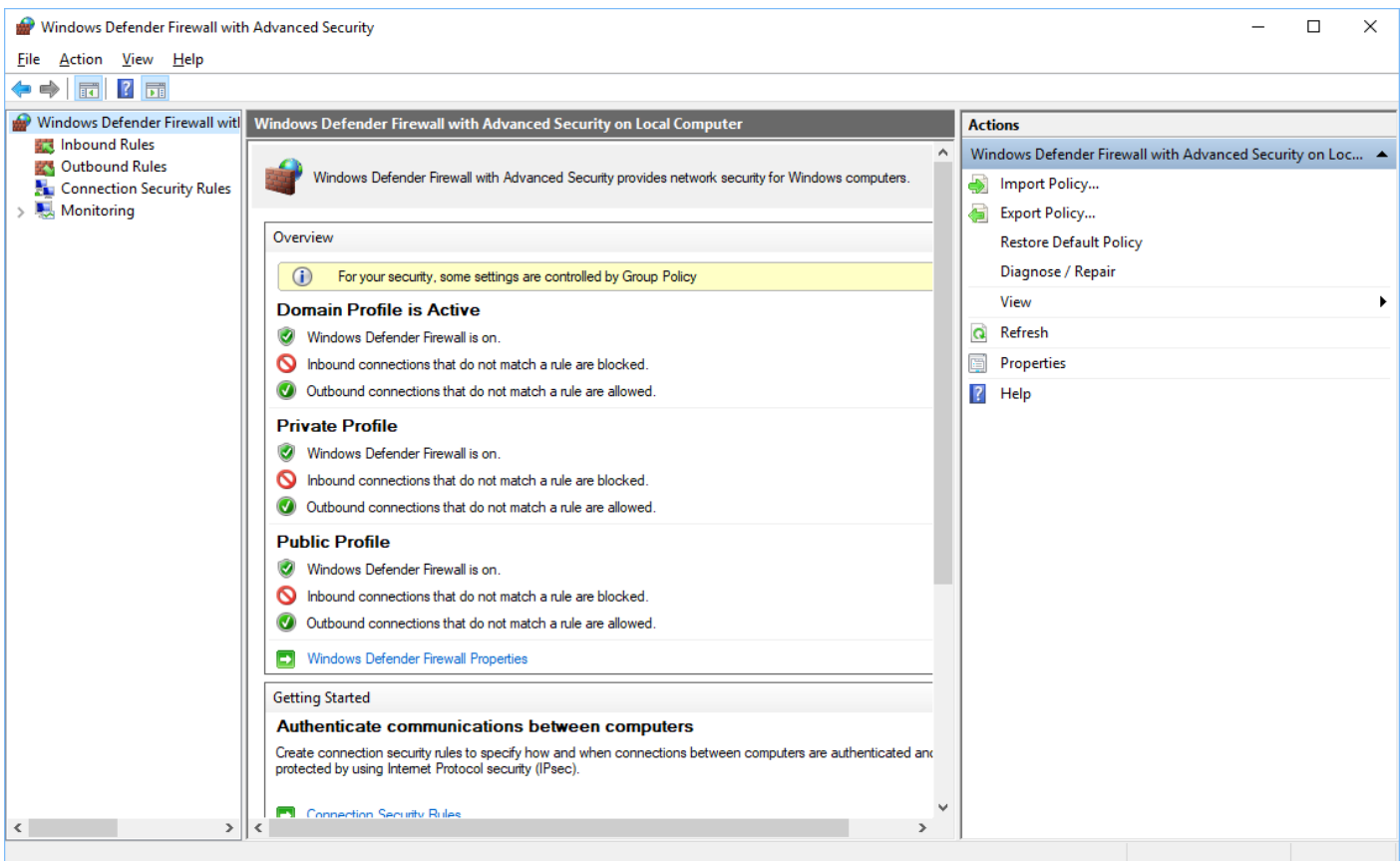


You can close the window by pressing a "Close" button or by pressing any key.

C. Firewall settings

When installing the server, two rules are added automatically in Windows Firewall. When the server is uninstalled, these rules will be deleted. The default rules are configured to allow the use of ports 9401 and 48901 for incoming and outgoing connections.

To configure Windows Firewall, click "Start", type "Windows Defender Firewall", click on "Advanced Settings" in the window that appears, then look through the rules in the "Inbound Rules" and "Outbound Rules" sections.



"Inbound Rules" section rules:

- "Capvidia License Server x64 Edition, port 9401 (TCP-In)"

- "Capvidia License Server x64 Edition, port 48901 (TCP-In)"

"Outbound Rules" section rules:

- "Capvidia License Server x64 Edition, port 9401 (TCP-Out)"
- "Capvidia License Server x64 Edition, port 48901 (TCP-Out)"

D. Resetting the administrator password

If the administrator password is lost, you can reset it in the following way:

- Stop the service
- Locate the server configuration file 'server_config.json' and open it in a text editor
- Copy the default "administrator" element (see Server Configuration section) into the configuration file
- You can also delete the configuration file (in this case, all settings will be reset to the default values, discarding any customizations).
- Start the service, the username and password for administrative access will be admin / admin.
- Go to Capvidia License Server Manager and change the password to a more secure one.

E. Legacy clients

The following limitations are present when connecting to the server with a legacy client:

- The client does not inform the server of its IP address; the IP address of the client from the server's side is displayed.
- The client does not inform the server of its computer name, the server itself tries to determine the computer name via DNS; this name may differ from what is visible from the client computer.
- The client does not inform the server of its username and domain. In reports, the username appears as unknown.
- The client does not inform the server about the version of the product used.

If you do not intend to use legacy clients [do not allow legacy client to connect to the license server], you can disable it through the support_legacy_clients option of the server configuration (please see "Server configuration").