JTB FlexReport Report Service and Client

Table of Contents

Instructions	3
Report Service installation	4
JTB FlexReport Service Configurator	5
Client installation	8
JTB FlexReport Client Configurator	8
JTB FlexReport Client	9
How to quickly create a report	9
Ribbon tips	9
Report Settings tab	9
Select Date	
Preset Values	
Time Frame	
Report Settings	
Interval	
Multiple in One Chart	
Multiple report	
New tab	
Include concurrent overlap usage	
Differences	
Color	
Borrowed line	
Hide Issued Lic	
Fill effect	
Denials	
Highlight today	
Create Date Time	
Summation	
Report Type	14

	Favorites	15
	Duplicate and Multiply the Time	16
	Tools	16
	MinMaxAvg	17
	Feature Server tab	18
	Detailed tab	19
	Hours chart tab	20
	List report	21
	Auto Reports tab	22
	Export tab	26
	Drilldown list	26
	Tools tab	28
	Style	37
	Application menu	38
	Quick Access Toolbar	40
S	ample reports	42
	Monthly chart on a per day basis	42
	Monthly chart as a continuous line	43
	Chart as a continuous line including borrowed usage and with interval set to 1 day	44
	Denials showing on charts	45
	Stacked line	47
	Stacked Line with multiple features in one chart	48
	Stacked percentage with fill effect	49
	MinMaxAvg showing Max, Min, Avg used licenses and Standard deviation	50
	Histogram	51
	Unique users chart showing how many different users were using the feature per selected interval	1.54
	Multiple feature groups are selected as well as multiple servers and plotted in the same chart	56
	Hours per user	57
	A whole quarter but with interval set to 1 day	58
	Multiple chart with one chart with all features and then one chart per feature in separate tabs	59
	Database discrepancy	60
	List Reports	61

	Used Licenses	62
	Borrowed Licenses	62
	Used and Borrowed Licenses	63
	Min/Max/Avg Usage	63
	User Groups	65
	Host Groups	66
	Denied Requests	67
	Raw data Report	68
	Raw Sampled data Report	68
	Pinged Host Report	69
	Features List Report	69
Mis	cellaneous questions answered	71
۷	Vhy are there dips in the charts?	71
F	low to move the JTB FlexReport Report Service installation to another server?	72
V	Vhat discrepancies in the reports should I be aware of?	72
C)ther tips and tricks	74

Instructions

JTB FlexReport Report Service and JTB FlexReport Report Client provide reporting functionality of JTB FlexReport.

The Service and Client installations do not include the functionality to record license usage. You need to have JTB FlexReport Core software installed for that purpose. Optionally JTB Process Monitor is needed.

It is recommended to install the JTB FlexReport Report Service on the same machine as JTB FlexReport Core is installed on and if MS Access is used, install on same machine as the main database JTBFlexReport.NET.mdb (default name) is located.

The JTB FlexReport Report Client can be installed on the same machine as the Report Service or it can be installed on one or many clients or PCs.

SQL Server recommendation:

If you can, use Windows authentication. Windows authentication offers the following security advantages as compared to SQL authentication:

•Accounts are centralized and managed by your Active Directory or local authority store.

- •Strong password policies can be controlled and enforced by your domain or local security policy.
- Passwords are not transmitted over the network.
- •User IDs and passwords are not specified in database connection strings.

If you use SQL Server authentication, make sure that you use a least-privileged account with a strong password.

Report Service installation

.NET Framework 4.6 or later required.

The Report Service (JTB FlexReport Report Service) can be installed on a server or on the same Server/PC as the client. It is recommended to install it on the same machine as JTB FlexReport Core, especially if an Access database is used as backend database.

The recommended, default and most common option is having windows service running on the server with static IP, another option is by having an IIS Hosted service (ISS service installer is available upon request). If the service and the client are on different machines you need to use a static IP instead of the machine name or the machine name must be found from the client machine. The IP or server name (of the machine where JTB FlexReport Report Service is installed) should be used to configure both the service and the client.

Run JTB FlexReport Service <version> Setup.exe.

At the end of the installation the Service Configurator will optionally show up. You can configure it during the installation or later.

JTB FlexReport Service Configurator

Service Configurator is found in Windows Start Menu>All Programs>JTB FlexReport Service> JTB FlexReport Service Configurator or run JTB FlexReport Service Configurator.exe in the JTB FlexReport Service folder. Typically in this folder:

32-bit OS: C:\Program Files\JTB World\JTB FlexReport Service

64-bit OS: C:\Program Files (x86)\JTB World\JTB FlexReport Service

It is also available to start from JTB FlexReport Core Configurator (JTB FlexReport Config) on the General tab.

General Configuration tab

Click on License Activation and activate JTB FlexReport unless it is already done in JTB FlexReport Core.

Decide to use SQL Server or MS Access as database. This depends on what database is used in JTB FlexReport Core.

You might need to specify the static IP instead of the server machine name. Note that this IP or name should be for the machine where the JTB FlexReport Service is installed.

Use port number 2003 and 2004 as first choice or increment it higher. The two services need to run on different ports.

Make sure the ports selected are open through firewalls.

Browse for the MS Access database (normally named JTBFlexReport.NET.mdb) or configure the SQL Server settings. Use the button Load SQL Servers to update the list of SQL Servers. Use Load DB Names button to update the list of Database Names. Sometimes the Server Name is not populated and needs to be added manually. For example SQL Server Express sometimes needs to be added manually like this .\sqlexpress or (local)\sqlexpress if the instance name is sqlexpress.

Notice that if the MS Access database is located on another server/computer you need to give the user that runs the service rights to access other computers on the network. UNC path should be used instead of mapped folder. How this is done is described in the JTB FlexReport Core documentation.

Update DB is usually only needed after upgrading from an older version than version 11.

Click on Configure.

Click on Start Services. This starts the services "JTB FlexReport Report Service" and/or "JTB FlexReport Sampling Service" and/or "JTB FlexReport Auto Report Service".

Take note of the "server machine" name or IP, and the ports in "Running On Port" as it is needed when configuring the client.

Optionally test the connection and the service engine using the two separate buttons.

An error message about "The remote name could not be resolved: 'localHost'" can indicate a Host name problem that needs to be fixed, a workaround is to use the IP address. It can also be a conflict with a VPN client. Try disable the VPN client and try if it works. Disabling the use of a pac file whilst connected to the domain can also help. A pac file is a script file that is used to automatically configure LAN settings.

Sampling to Cache

To improve performance of reporting on the raw data "JTB FlexReport Sampling Service.exe" runs as a Windows service and updates the raw data to a format that the reports quicker can make use of. This is normally done automatically every 30th minute. The lower Precision Value the more correct result but the longer the sampling will take and the larger the cache temp table will be. If MS Access is used as back end database the cache will be saved in a separate database with the suffix "-temp.mdb" containing the UserDetailedLogTemp table. If SQL Server is used there is a table named UserDetailedLogTemp that holds this cache data.

"Sampling All Records" can be used if you want to change "Precision Value". You don't have to keep the Service Configurator open during sampling as it can take quite a while if there is lots of data to process. But if it is kept open a dialog box will tell when the sampling is ready.

Here are the services showing up among Windows Services.

Name	Description	Status	Startup Type	Log On As
🖏 JTB FlexReport Auto Service	Automatical	Running	Automatic	Local System
🤹 JTB FlexReport Core Service		Running	Automatic	Local System
🤹 JTB FlexReport Report Service	Provides dat	Running	Automatic	Local System
🖏 JTB FlexReport Sampling Service	Sampling da	Running	Automatic	Local System

If you want to have the service running with lower priority, select Process Priority.

Email Configuration tab

Only needed if email with reports needs to be sent. Specify email settings to have the ability to get automatically created reports by email. Use it together with the <u>Auto Reports tab</u> in the client.

You may need to contact your email server admin or manager to learn what settings to use.

The "To" email here is only used for sending the test email. Further configuration needs to be done in the client as different reports can be sent to different emails.

JTB FlexReport Service Configurator				
General Configuratio	n Email Configuration			
	Email settings			
From:				
To:				
SMTP:				
User name:				
Password:				
SMTP port:	Use default credential			
This server rec	uires an encrypted connection (SSL) Configure email Send test email			

When ready and/or before pressing "Send test email" press "Configure email".

Client installation

.NET Framework 4.6 or later required.

The client can be installed on any server or PC that have network contact with the server or PC where the Report Service is running. The client can also be installed on the same computer as the service.

Run JTB FlexReport Client <version> Setup.exe.

JTB FlexReport Client Configurator

Run JTB FlexReport Client Configurator from Windows start menu or run "JTB FlexReport Client Configurator.exe" located in the installation folder.

Typically in this folder:

32-bit OS: C:\Program Files\JTB World\JTB FlexReport Client

64-bit OS: C:\Program Files (x86)\JTB World\JTB FlexReport Client

It is also available to start from JTB FlexReport Core Configurator (JTB FlexReport Config) on the General tab.

In the client configurator add the server name or IP and ports that the Report Service uses. If unsure check in the JTB FlexReport Service Configurator what ports the settings are.

(Ø JTB FlexReport Client Configurator − X						
	JTB FlexReport Client Configurator						
	Service Type						
	JTB FlexReport Service Engine Server Name / IP Address ACERLAPTOP						
	JTB FlexReport Report Service Running On Port 2003						
	JTB FlexReport Auto Service Running On Port 2004						
	Configure Test Service Engines Exit						

JTB FlexReport Client

Start the client application from Windows start menu or run "JTB FlexReportClient.exe" located in the installation folder.
Typically in this folder:
32-bit OS: C:\Program Files\JTB World\JTB FlexReport Client
64-bit OS: C:\Program Files (x86)\JTB World\JTB FlexReport Client

It is also available to start from JTB FlexReport Core Configurator (JTB FlexReport Config) on the General tab.

How to quickly create a report

Start by selecting Report Type from the Report Settings tab.

Then select a Date Range.

Optionally select other Report Settings.

Depending on Report Type select the appropriate tab and make further selection there. If only feature and server data should be included in the report typically use the Feature Server tab. For reports filtered on users or hosts and other combinations use the Detailed tab. For hours charts use the Hours Chart tab.

Press the Generate Report button.

See sample reports and settings <u>here</u>.

Ribbon tips

Click on a Ribbon tab if the Ribbon is minimized to show that Ribbon tab.

Double click on a Ribbon tab to switch between minimized and maximized Ribbon.

The whole Ribbon can be resized in height to make it easier to select from list boxes.

Report Settings tab

	Report			JTB FlexReport		- 0
Report Settings Feature Server Detailed Auto Reports	Export Drill down list					
Time Frame 00:00-23:59	💌 🔲 Enable Manual Time Frame	Interval	60 minutes	Color Fill effect	💡 Favorites 👻	Data Label
Month Report						
Week Report		Multiple Report	Hide Issued Lic	Highlight today	Make Favorite	Max Usage
Preset Values Last 30 days O From-		Created DateTir	me			_
2017-09-17 is the oldest date available 2018-04-24 is the	newest date available	Report Type	PerDay	Generate Report	Manage Gallery	
						Axis control
Date Range				Report Settings	Favorites	Tools

Here you start by specifying the date range and time frame to be used for the reports.

Before you can generate a report you need to use either of the tabs "Feature Server", "Detailed", "Hours Chart" or "List Report" (depending upon Report Type selected) and make selections there on what to report on.

 Select Date
 2017-12-14
 Time Frame
 00:00-23:59
 Enable Manual Time Frame

 Month Report
 Image: Constraint of the second secon

On the Date Range area specify the date range for your report.

Notice the oldest and newest dates available at the bottom of the date range area.

For Week Reports it is possible to select what week days to include in the reports. This will only work for PerDay, Stacked Line, Stacked Percentage, Histogram, Hours Chart and List Reports report types.



Select Date

This will be used when either of the radio buttons "Month Report" or "Week Report" are used. Select any day within the month or week you want to report on.

Sele	Select Date				-12-	14	• ‡
4	De	ecem	nber	×	• 20	017	F.
	Мо	Tu	We	Th	Fr	Sa	Su
49	27	28	29	30	1	2	3
50	4	5	6	7	8	9	10
51	11	12	13	14	15	16	17
52	18	19	20	21	22	23	24
53	25	26	27	28	29	30	31
	1	2	3	4	5	6	7
		То	oday	Cle	ar		

Preset Values

Preset Values	Last 6 month 🔹
2017-09-17 is the	Previous year
	Previous quarter
	Previous month
	Previous week
	This year
	This quarter
	This month
	This week
	Last 12 month
	Last 6 month
	Last 5 month
	Last 4 month
	Last 3 month
	Last 2 month
	Last 30 days
	Last 21 days
	Last 14 days
	Last 7 days
	Last 24 hours

"Preset Values" needs to be used for the automatically created reports but can also be used for manual reports.

Time Frame

This setting is used for PerDay, Stacked Line, Stacked Percentage, Histogram, Hours Chart and List Reports reports only.



Either use the standard time frames from the dropdown or enable the manual setting and select from and to times.



Report Settings

On "Report Settings" there are several settings that determine how the reports are created. If the Wizard is activated you only see the settings that are available based on the Report Type selected.

Interval	60 minutes	 Color 	Fill effect
Multiple in One	Not In Use	- Borrowed	Denials
Multiple Report	Hide Issued Lic		
Created DateTim	ne		
Report Type	Continuous Line		Generate Report
		Report Settings	

Interval

If a large date range is used like a year an interval of 10 minutes will be too small and generate too many points to reasonable show on a chart so a larger interval can be used. If the data in the database is saved at an interval of 10 minutes and the charting interval is set to 60 minutes the max value in that interval will be used. Selecting interval can also make the chart more readable.

Interval	60 minutes 🔹
Multiple in One	1 minute
	2 minutes
Multiple Report	3 minutes
Created DateTim	4 minutes
	5 minutes
Report Type 🛛 🖞	6 minutes
	10 minutes
	12 minutes
▲	15 minutes
	20 minutes
	30 minutes
	60 minutes
	1 day
	1 week
	1 month
	1 year

Multiple ... in One Chart

If multiple of the items in a list (like the features list) are used they can be plotted as separate lines in the chart or separate bars in the hour chart report type. This option is not available for all Report Types.



Multiple report

When "Multiple Report" is checked and you for example selected multiple features on the Feature Server tab, one report per feature will be generated on a separate tab.

New tab

If this is selected a new tab will be used for the new report instead of replacing the existing report. This can be useful if you want to quickly compare data from one month to another.

Include concurrent overlap usage

If this checkbox is selected the generated report will remove duplicates if there are two or more concurrent usages at the same time. Used also for the database discrepancy reports.

Example of concurrent overlap usage is with data from Process Monitor. Say one session of AutoCAD LT was run between 8:00 and 9:00 and another session was run between 8:30 and 9:30. With the checkbox checked the result would be that 2 licenses was running at 8:45 but when not checked it would report as 1 licenses was running and this also affects the hour charts so in the first place 2 hours are reported and in the second place 1,5 hour.

Differences

Show only the differences. Used for the database discrepancy report only.

Color

Either colors can be used for the charts or they can be in black and white.

Borrowed line

Include a separate line showing the borrowed usage. The borrowed usage is still included in the used line.

Hide Issued Lic

If you don't want to include the Issued Lic line.

Fill effect

Useful for bar charts. For some other reports like Per Day and Continuous Line it can make the report not readable.

Denials

Include denials in the some of the reports. Requires that denials have been saved to the database. For example for FlexNet licenses, by specifying FlexNet debug log files in JTB FlexReport Config. Not all license systems supports denials.

Highlight today

Highlight (line is bolder) the line that is for the current day. Typically used for monthly or weekly charts and PerDay report type.



Create Date Time

Show created date time in report.

Summation

This is for histogram reports when multiple features are selected the license counts are summed up in the calculation. See examples of <u>histogram reports</u>.

Summation can be useful when features and licenses overlap—you may have Building Design Suite Premium, Building Design Suite Advanced, and Architecture Engineering Construction Collection...someone who opens Revit could get any one of the three features depending on what's available.

Interval	10 minutes	✓ Color	✓ Fill effect
Multiple Report	me Summation		
Report Type	Histogram	•	Generate Report
	Repo	ort Settings	

Report Type

Select among the report types available: PerDay, Continuous Line, Stacked Line, Stacked Percentage, MinMaxAvg, Histogram, Unique users, Database discrepancy, Hours Chart and List Reports.

Different Ribbon tabs will show or hide depending on the Report Type.



Favorites

In the Favorites area you can create and access favorites.

Create the report you want to use.

It is recommended to use Preset Values for the date range so it is dynamic.



When a favorite is created it can be accessed and generated by selecting from Favorites



Manage Gallery is used to edit or delete favorites.

Duplicate and Multiply the Time

These checkboxes are available only for List Reports.

Duplicate will include duplicate usage. Normally this should be unchecked.

Multiply the Time when checked will multiply the time with the number of licenses if more than 1 license is taken per checked out features. This is mainly useful for token based features.

Interval	10 minutes Duplicate Multiply the Time			
Report Type	List Reports	Generate Report		
		Report Settings		

Tools

Data Label will show data labels for all points or bars in a chart.

Max Usage will show a data label for only the point with highest value in a line.



On Axis control add a custom value or delete an existing value to restore to the default value. Orientation is in degrees.

Axi	s control	
	X - Orientation	<default></default>
	Y - Orientation	<default></default>
	X - Time Span	<default></default>
	Y - Num Span	<default></default>

MinMaxAvg

When the MinMaxAvg report type is selected the MinMaxAvg Setting panel shows up allowing you to select what lines to be showed on the report and for average line the grouping value.

Avg is short for average.

Standard Deviation. Learn more about it at <u>http://en.wikipedia.org/wiki/Standard_deviation</u> or <u>http://www.mathsisfun.com/data/standard-deviation.html</u>.

If the interval is 1 day and the grouping value is 7 you will get the average based on groups of 7 days.

Show/Hide Lines					
🗷 Min	🗷 Max	🗷 Avg			
Standa	rd Deviatio	n			
Avg Grouping					
Avg Grouping Value					
MinMaxAvg Settings					

Feature Server tab

Reports on this tab are based on the 'log' table that does not contain any user or host details. Normally this tab should be used for these combinations "Features – Servers", "Features – Server Groups", "Feature Groups – Servers" or "Feature Groups – Server Groups". For JTB Process Monitor and some license systems use the Detailed tab.

Report Settings Feature Server Detailed Auto Reports	Tools	
	Search Filter Width 200	Search Filter Width 178 🚔
Features - Servers These reports are based on the 'log' table. Generate Report	<aii> AutoCAD AutoCAD Architecture Revit Architecture Suite Revit MEP Suite</aii>	<all> ServerA ServerB</all>
Select Group	Features	Servers

Combination drop down

Features - Servers
Features - Server Groups
Feature Groups - Servers
Feature Groups - Server Groups

To select all items in a list like all feature groups it is enough to select <All>.

To select all items that belong to a group select <Unassigned>. In the below example selecting <Unassigned> will select all features that does not belong to any of the groups or in this case FG1.

Search Filter	Width	178 🌲
<all> <unassigned> FG1</unassigned></all>		
Featu	re Grour	ND.
<unassigned> FG1</unassigned>	ire Group)5

Detailed tab

Reports on this tab are based on the 'detailed' tables 'tblUserDetailedLog' and 'tblUserDetailedLogPrev' that contain user or host details. Use <All> to select all items like all User Groups and <Unassigned> to select all items not in a group like all users not belonging to a user group. Normally if the Feature Server tab can be used, it's preferred to use it.

Report Settings Feature Server Detail	ed Auto Reports Tools	
	Search Filter Width 178 🚔	Search Filter Width 178 🚔
Features - User Groups ▼ These reports are based on the 'detailed' tables. Generate Report	<aii> AutoCAD AutoCAD Architecture Revit Architecture Suite Revit MEP Suite</aii>	<all> <unassigned> UserGroupA UserGroupB UserGroupC</unassigned></all>
Select Combinations	Features	User Groups

Select Combinations in the drop down.

	Features - User Groups	•
	Select	
	Feature Groups - Host Groups	
	Feature Groups - Hosts	
	Feature Groups - Server Groups	
	Feature Groups - Server Groups - Host Groups	
	Feature Groups - Server Groups - Hosts	
	Feature Groups - Server Groups - User Groups	
1	Feature Groups - Server Groups - Users	
	Feature Groups - Servers	
	Feature Groups - Servers - Host Groups	
	Feature Groups - Servers - Hosts	
	Feature Groups - Servers - Users	
	Feature Groups - User Groups	
	Feature Groups - Users	
	Features - Host Groups	
	Features - Hosts	
	Features - Server Groups	
	Features - Server Groups - Host Groups	
	Features - Server Groups - Hosts	
	Features - Server Groups - Users	
	Features - Servers	
	Features - Servers - Host Groups	
	Features - Servers - Hosts	
	Features - Servers - User Groups	
	Features - Servers - Users	
	Features - User Groups	
	Features - Users	
	Server Groups - Host Groups	
	Server Groups - Hosts	
	Server Groups - User Groups	
	Server Groups - Users	
	Servers - Host Groups	
	Servers - Hosts	
	Servers - User Groups	
	Servers - Users	

Hours chart tab

Use the Report type Hours Chart on the Report Settings tab. Reports on this tab are based on the 'detailed' tables 'tblUserDetailedLog' and 'tblUserDetailedLogPrev' that contain user or host details.

Report on hours used by selecting different combinations like User-Feature or User Groups-Feature.

It is possible to filter out columns of hours for example showing only hours more than specified number.

Report Settings Hours Chart	Auto Reports Tools		
Users Features	Search Filter Width 178 🖨	Search Filter Width 178 🚔	HoursUsed All
Hosts Servers	<all></all>	<all> AutoCAD</all>	From 0
Host Groups Server Groups	User002	AutoCAD Architecture Revit Architecture Suite	To 0
Generate Report	User004	Revit MEP Suite	
Select report type	Users	Features	Hours Setting

Hours Used in the reports includes borrowed hours but it is possible to show borrowed hours also in a separate bar by using the Borrowed checkbox on Report Settings tab. The borrowed usage is still included in the used bar.

Use <All> to select all items like all User Groups and <Unassigned> to select all items not in a group like all users not belonging to a user group.

List report

File Report	Settings List Report	Auto Reports				
List Report Type	Used Licenses		•	Preview Report	Print Report	Export to Excel
Selection	Server - Feature - User	- Host	-			
Aggregate Interval	Day		-			
Generate Report		e Report				
	Report Setti	ngs		Pr	int and Export Repor	ts

List Report Type

Select what type of list report to generate.

File R	leport Settings	List Report	Auto Reports	Export	
List Report Ty	pe Used Lie	censes			•
Selection	Server -	Feature - User -	Host		-
Aggregate Inte	erval Server -	Feature - User - I	Host		
Server - Server - Server - Server - Server - Server - Server - Server -		Feature Group - I Feature - User Feature - Host Feature - User - Host	Jser - Host		
	Feature Feature	- User - Host			•
	Feature	11030			
	User				
	Server - Server -	Feature - User - F Feature - User - F	Host - Project Project		

Selection

Make a selection depending on type of report.

List Report Type	Used Licenses -			
Selection	Server - Feature - User - Host 🔹			
Aggregate Interval	Server - Feature - User - Host			
, gg. egetee. re.	Server - Feature - User			
	Server - Feature - Host			
	Server - Feature			
	Feature - User - Host			
	Feature - User			
	Feature - Host			
	Feature			
	User			
Server - Feature - User - Host - Project				
	Server - Feature - User - Project			

Aggregate Interval

Select if the data in the report should be aggregated or summed up per day, per month or per year.

List Report Type	Used Licenses 🗸		
Selection	Server - Feature - User - Host 🔹		
Aggregate Interval	Day 🔹		
	Day		
	Month		
	Year		

Auto Reports tab

With this functionality you can have reports automatically created as PNG image files at specified recurrence pattern.

Auto Reports can also be used to quickly get access to different saved reports. Just click on the saved report in the Reports List and then go to the Report Settings tab and click on Generate Report. If you don't want to save a lot of image files created, make sure to use a fixed file name and have them created only monthly.

On Report Settings tab the date selection must make use of "Preset Values".

This functionality requires that the JTB FlexReport Auto Report Service is running.

To set up a report start by manually creating the report you like to use. Settings on the Tools tab will not affect the created images.

Report Settings	Feature Server Detailed	Auto Reports Export Drill down list	
Hourly Daily Monthly	Recur every 60 🐑 minute	File Save Path: File Name Email File Name : Image Resolution Save Width 802 + Height	AutoCAD Edit Report Delete Report Cancel
Recurrence Pattern	Hourly Settings	Settings	Report List

When the report is created click on Auto Reports tab and specify the recurrence pattern if the report should be created on an hourly, daily or monthly basis.

Hourly settings allow a report to be created multiple times per hour or day.

 Hourly Daily Monthly 	Recurevery 60 🚔 minute
Recurrence Pattern	Hourly Settings

Daily settings allow a report to be created at specified days and time.

Hourly	Auto GenerateTime 15:43
Daily	Monday Tuesday Wednesday
Monthly	🖉 Thursday 🖉 Friday 📝 Saturday
	Sunday
Recurrence Pattern	Daily Settings

Monthly settings allow a report to be created on a monthly basis.

Hourly	Auto GenerateTime 15:43
O Daily	● Day 30 🚔 of every month.
Monthly	The First
	Monday 🔽
Recurrence Pattern	Monthly Settings

The **Settings panel** explained.

File Save Path is a path located where the Auto Report Service is running. You can run this client on any computer but the report file (.PNG) will be created locally on the server.

It is possible to save to a network path (UNC) with some setting changes. JTB FlexReport Auto Report Service needs to be changed so it logs on as another account than the Local System Account. You might need to set "Log on as" to either a user account or another special account with access to the other location. Then for the folder where the images should be saved you need to share the network path with everyone or with a special user with read/write permission level. Finally you can use a UNC path as path where the images will be saved.

If the report should overwrite itself each time, use the fixed file name checkbox. This can be useful if you like to have a web page with the image being updated automatically.

Enter a file name that is the basis for the report file. If fixed file name is not used the file name will have a suffix with the date and time. For example AutoCADperDay (2012-02-13 08.52.12).png where AutoCADperDay is the file name.

Specify also the size for the image.

When ready press Save Settings. If all goes well a PNG file will directly be created based on the settings used.

File Save	Path:						
Fixed I	File Name	Email					
File Nam	e : - Image Resolution						
Width	Width 802 Height 1154 Save Save Settings						
	Setti	ngs					

The report will show up on the **Report List** panel and can also be deleted or edited from there.

Email

Make sure first that email settings are done in the JTB FlexReport Service Configurator><u>Email</u> <u>Configuration</u>.

To get the created PNG files emailed use the Email button and specify the settings of where to send the email and with what subject and content.

	Email settings					
	Use for all Auto Reports					
То	nfo@jtbworld.com					
Subject	Last 30 days AutoCAD report					
Content						
	Cancel Ok					

The setting files are saved on the computer where JTB FlexReport Service is installed in this folder: %ALLUSERSPROFILE%\JTB World\JTB FlexReport Service

%ALLUSERSPROFILE% location:

XP: C:\Documents and Settings\All Users

Vista, Windows 7, Windows 8, Windows 8.1, Windows 10: C:\ProgramData

Export tab

This is a contextual tab that shows up when there is a report available to be exported.

Export the current report or all reports to Excel. If a chart is exported the data for the chart will be exported, not the chart.

Export the current report or all reports to images. You will be asked for a folder where the images are saved.

File	Report Settings	Feature Server	Detailed	Auto Reports	Export	Drill do
Saved File 1.xlsx 2.xlsx export.xls IRD Addi JTB test	es x tion Sheets xlsx xlsx	Last Use Last Use	d Path (Data d Path (Image	Exported) : C:\U: e Exported): C:\U:	sers\jtb\Do sers\jtb\Do	ocuments
testrevit.x test.xlsx	dsx	Export to	o Excel 👻	Export Report Ima	ages 👻	
,		Ci	urrent Tab	t data and image	es	
		AI	l Tabs	A	A	

Click on the file in the list to open it.

Drilldown list

This tab is a contextual tab and is only visible when a chart has been created.

In some charts you can click on a point and a drilldown list will show up showing what users that were using licenses at that point in time. If the chart is based on a larger interval like 1 day there might be multiple times that has the same amount of licenses issued but it is the first one found that is showed.

Depending on how the chart was created and based on what settings, the drill down row count might not match the point on the chart. This can also be affected by the precision value set for the sampling in JTB FlexReport Service Configurator. The larger precision value the less accurate this is.



Tools tab

This tab is a contextual tab and is only visible when a chart has been created.

Changes using this tab only affects the currently showing chart and are not saved.

C	Repo	rt Settings	Feature Server	Detailed	Auto Reports	Export	Drill down list	Tools	3			
		-		\sim					Color	Created Date Time	Enable tooltip chan	ge
	-			\sim	- 🥙	- <u>-</u>	- 🖂		Fill effect	Show Data Labels	Auto pop delay (ms)	5000 🌲
Get	Value	Max Usage	e Hide Line	Color	Zoom/Pan	Move	e Reset		Issued Licenses	Show Markers	Reshow delay (ms)	500 🌲
		and her							Borrowed	Differences	Initial delay (ms)	100 🌲
	~				• 🦰		· 🔡	•	Denials			
Data	a Label	Highlight	Isolate	Title	Report Zoom	Axis con	ntrol Gridline	s	Highlight today			
				Tools					Repo	rt Settings	Tooltip Set	tings

Get value shows information on a point on a line in a dialog box. The result can also be copied to the clipboard

JTB FlexReport X				
Line Name : Date Time :	Used Licenses 2017-12-07 00:00:00			
No of Licenses : 17				
Copy to Clipboard				

Show Value add the value directly on the chart for the point you click on.



Show Max usage – shows the highest value for each line in the chart.





Highlight selected line makes the selected line red and bold.

Hide Line – click on a line to hide it.

Isolate selected line and all other lines will be hidden.

Color - Change the color of selected line if you want another color on it. Just click on the button, not on the arrow.



Or click on the arrow to do the following changes.

• Line management

Custom settings can be specified and profiles for them can be saved, applied and used.

Line management Profile test		Issued Licenses Max Used Licenses Max Used Licenses Line Properties Editor
Current Profile : test Line Name Ssued Licenses Max Used Licenses	Line Properties <show editor=""> <show editor=""></show></show>	Color: Width: Factor:
Add new Profile Apply Set C	urrent Save Profile Delete	Clos Clos Preview: OK Cancel

Line Color, Width, Factor and Style can be specified for each line.

- Change Title Color
- Change Axis Text Color
- Chart background This is for the area within the chart. If the colors are different it will be gradient.
- Background This is for the area around the chart. If the colors are different it will be gradient.

And to save the colors as your standard there are the following options.

- Save background colors as standard
- Save title colors as standard
- Save axis colors as standard

Title is useful if you want to add a custom title for the report.

Zoom/Pan – use your mouse left click and make a rectangle from top left to bottom right in the chart to zoom in. Click one time with the left button to zoom out or make a rectangle from right to left to zoom out a bit.



The result after zooming in:



Chart Zoom acts on the chart area so you can adjust the size of it.

Move



- Move Chart relocate the chart
- Move other items

Allow you to move the Legend, X-axis, Y-axis, Title, Date Time and No of Licenses individually.

Move other items X	
Move	Legend 🗸
Horizontal margin	Legend X - axis
Vertical margin	Y-axis Title Date Time
	No of Licenses

Axis controller

Allow you to make changes to the axis text.

Ax	s control Gridlines		
	X - Orientation 45		
	Y - Orientation 0		
	X - Time Span 1	ŀ	
	Y - Num Span		
1	X - Hor. Align Right 🚽		
-	X - Ver. Align Top 🔹		
	Y - Hor. Align Right 🛛 🗸		
	Y - Ver. Align Center 👻		

Reset

Most changes can be reset All at the same time or individually.



Gridlines



Besides being able to change the appearance of the grid lines you can set the chart to be viewed in 3D.



The trick to get the depth of the lines is to click on "Fill effect" twice.

Chart Tooltip Settings

Enable tooltip change			
Auto pop delay (ms)	5000 🚖		
Reshow delay (ms)	500 🌲		
Initial delay (ms)	100 🌲		
Tooltip Settings			

• When **enable tooltip change** is checked a tooltip shows when you hold the cursor above a point on a line.



- Auto pop delay is in milliseconds how long the tooltip will show.
- **Reshow delay** is in milliseconds how long before showing another tooltip when you move the cursor.
- Initial delay is in milliseconds how long before the tooltip will show up.

Chart Settings



Toggles the settings on the currently visible chart.

- Color
- Fill effect
- Issued Licenses
- Borrowed
- Denials
- Highlight today
- Create Date Time
- Show Data Labels

Show or hide the data labels



• Show Markers

Show or hide the markers



• Differences Used for the database discrepancy report only.
Style

Select your preferred color theme.

First select the base style Black, Blue or Silver. Then you can select a custom color that will adjust this style further.



Application menu

Copy report image to clipboard.

Reports can be saved/exported to file and printed.

Close current or all reports.

Determine if the mouse wheel should scroll among the tabs or not.

Determine if the Ribbon should be hidden automatically.

Auto Filter: This applies to simplify making selections in the list boxes of features, servers, users, hosts, etc. Note: If the database is large and with many rows in the tables this can cause the Client to take a long time to open so you might want to disable this feature for this reason.

Use Wizard: The Wizard is activated by default and makes it easier to make selections of settings by hiding those that are not available depending on report type selected.

Play sound when ready: If you want to hear when the report(s) is ready.

Copy Report
Save Report Ctrl+S
Print Ctrl+P
Print All Ctrl+Shift+P
Close Ctrl+W
Close All Ctrl+Shift+C
Mouse Wheel Tab Scroll
Autohide Ribbon
Auto Filter
🗷 Use Wizard
Play sound when ready
🛛 E <u>x</u> it

Save Report opens up this dialog box making it possible to save to different image formats.

Size					
🔽 Use control di	mensions	Width:	1059	- A-	
		Height:	684	<u>^</u>	
Options					1
Bits per pixel:	32 bpp	•			
Image format:	BMP - Windo	ws Bitmap		•	
Quality (JPEG):	EMF - Enhan Exif - Exchan GIF - Graphic CO - Windov JPEG - Joint PNG - Portab TIFF - Tag Im	ced Windows geable Image is Interchang vs icon image Photographic ile Network G nage File Fom	s metafile e File e Forma format Experts iraphics nat	Gr	
Chart Print Manager	-		Clo)se	
Chart Print Manager Installed printers: Send To Irientation: Landsca	OneNote 2007			ose ▼ Copie	s: 1
Chart Print Manager Istalled printers: Send To Irientation: Landsca Paper	OneNote 2007			⊃SE ▼ Copie	s: 1
Chart Print Manager Installed printers: Send To Irrientation: Landsce Paper Size: Letter	OneNote 2007			JSE ▼ Copie	s: 1
Chart Print Manager Installed printers: Send To Internation: Landsca Paper Size: Letter Source: Default tray	OneNote 2007 pe •			Copie	s: 1
Chart Print Manager Installed printers: Send To Irientation: Itandocc Paper Size: Letter Source: Default tray Margins (inches) Lett: 1.00	OneNote 2007			Copie	s: 1
Chart Print Manager nstalled printers: Send To Drientation: Lendsce Paper Size: Size: Letter Source: Default tray Margins (inches) Lett: Lett: 1.00 ÷ Top: 1.00 ÷	OneNote 2007			Copie	s: 1
Chart Print Manager Installed printers: Send To Intertation: Lendsca Paper Source: Source: Default tray Margins (inches) Left Left 1.00 ÷ Top: 1.00 ÷ Right: 1.00 ÷	OneNote 2007			▼ Copie	s: 1
Chart Print Manager Installed printers: Send To Drientation: Landsca Paper Source: Source: Default tray Margins (inches) Left: Left: 1.00 ÷ Top: 1.00 ÷ Bight: 1.00 ÷	OneNote 2007			Copie	s: 1
Chart Print Manager nstalled printers: Send To Drientation: Landace Paper Size: Size: Letter Source: Default tray Margins (inches) Lett: Lett: 1.00 ÷ Right: 1.00 ÷ Bottom: 1.00 ÷ Settings Print grayscale Print background frame Automatic quality scale	OneNote 2007			Copie	s: 1
Chart Print Manager nstalled printers: Send To Drientation: Landocz Paper Size: Letter Source: Default tray Margins (inches) Lett: 1.00 ÷ Lett: 1.00 ÷ Settings Print grayscale Print background frame Automatic quality scale Quality scale: 1.00 Scale 2d objects: 1.00	OneNote 2007				s: 1
Chart Print Manager nstalled printers: Send To Paper Iardsca Size: Letter Source: Default tray Margins (inches) Iardsca Lett: 1.00 ÷ Right: 1.00 ÷ Bottom: 1.00 ÷ Print prayscale Print background frame Print background frame Automatic quality scale: Quality scale: 1.00 Update preview char View char	OneNote 2007			Copie	

To be able to export all chart tabs to images see the Export tab.

Quick Access Toolbar

Use the arrows to move among multiple reports that have been created.

The Ribbon can be minimized and maximized also by right-clicking on the arrow to the right in the Quick Access Toolbar (QAT).



Command can be added to the Quick Access Toolbar



Click on the arrow on QAT to access these options.



About dialog box shows besides versions information on the connection settings and database.

About JTB FlexReport	×
JTB FlexReport	
Server: windows10	
Report Service Port: 2003	
Auto Service Port: 2004	
DB Type: MS Access	
DB Path: D:\firman\JTB FlexReport\Sample Database	
DB Name: JTBFlexReport.NET-Sample.mdb	
Main DB Size: 19.73 MB	
Temp DB Size: 69.94 MB	
JTB FlexReport Client version: 2020.8.0	
JTB FlexReport Service version: 2020.8.0	
Copyright © 2020 JTB World Inc.	
	ОК

Show Alert will activate that the dialog box is shown when there is a need to select further data from other tabs.

Sample reports

Monthly chart on a per day basis



Select Report Type PerDay. Select Month Chart radio button and any date within the month you want to include in the report. Use lower interval than 1 day.

Use in combination with the Feature Server or Detailed tab.



Monthly chart as a continuous line

C	Report Settings	Feature Server	Detailed	Hours Chart	List Reports	Auto Reports	Export	Drill down liet	Tools			
select	Date 2012-0	3-01 📑 1100	Frame 00:00	D-23:59	Enable	e Time Frame m	anua	Interval	60 minutes	Color		Fill effect
<u>Mo</u>	onth Chart	Time	Frame From		× Time Fram	e To 💠	×	Multiple in One	Not In Use	 Borrowed 		Denials
O We	eek Chart							Multiple Chart	New chart in	new tab 🔲 Hide Iss	ued Lic	Highlight today
O Pre	eset Values	·	From	2011-09-17 🔽	📮 To 2012-0	04-24 🔫 🌻		Created DateT	ime 🔲 Include c	oncurrent overlap us	age	Differences
2011-0)9-17 is the oldest da	te available	20	012-04-24 is the	e newest date av	ailable	¢	Report Type	Continuous Line			Generate Chart
			Date Ra	nge					Re	port Settings	(annual second	Гя

Select Report Type Continuous Line. Select Month Chart radio button and any date within the month you want to include in the report. You can also select month using Preset Values dropdown or From and To dates. Interval can be any interval larger than how the sampling interval or snapshot interval is set.

Use in combination with the Feature Server or Detailed tab.

Optionally use checkboxes like Color, Borrowed, Hide Issued Lic, Fill effect, Denials.





Chart as a continuous line including borrowed usage and with interval set to 1 day

Report Type used is Continuous Line. A custom date range has been used and Interval set to 1 day.

Use in combination with the Feature Server or Detailed tab.

Borrowed usage is still included in the Max Used Licenses line.

Frame 06:00-18:00 💌 🗏 Enable Time Frame manual	Interval 1 day 🔽 Color
Frame From 08:00 🗙 Time Frame To 16:00 🗙	Multiple in One Not In Use 🔽 Borrowed
	Multiple Chart I New chart in new tab Hide Ma
● From 2008-09-01 💭 To 2008-11-01 💭	Include concurrent overlap usage
2009-01-30 is the newest date available	Report Type Continuous Line





Denials showing on charts

Select Date	2008-06-11 🚔 🗸		
Month Chart			
Interval	1 day	 Color 	Fill effect
Multiple in One	Not In Use	 Borrowed 	Denials
Multiple Chart	New chart in new	v tab 📃 Hide MaxLic	Highlight today
Include concur	rent overlap usage	Created DateTime	
Report Type	Continuous Line	· [🚧 Generate Chart

Use the Denials checkbox on the Report Settings tab together with the Continuous Line report type.

The points Denials are showing how many denials happed that day.

The points for DeniedUsers show how many different users had denials that day.

Denials is only available for Flex-enabled features and when having added FlexNet debug log in JTB FlexReport Config>Properties.

Use in combination with the Feature Server or Detailed tab.



Used licenses - Features: Application3

Here is another example of chart showing denials.



Stacked line

Select Date	2008-06-11 🚔 🗸	Time Frame	06:00-	18:00	-
Month Chart		Time Frame F	From	08:00	×T

Select Report Type Stacked Line.



Use in combination with the Feature Server or Detailed tab.

Used licenses - Features: Application1; Date range: 2008-06-01 to 2008-06-30; TimeFrame: 06:00-18:00



Stacked Line with multiple features in one chart

To create this chart select Report Type "Stacked Line", interval 1 day or higher, "Multiple...in One" set to Features.

Use in combination with the Feature Server or Detailed tab.

This can be useful if you are phasing out one version and starting to use a new version at a company and want to follow the progress for the users to switch using version.

Report Settings Feature Server Detailed Hours Chart List Reports Auto Reports Expo	rt Drill down list Tools
Select Date 2013-12-16 Time Frame 00:00-23:59	Interval 1 day 🔽 Color 🔲 Fill effect
Month Chart Time Frame From : ▼★ Time Frame To : ▼★	Multiple in One Features Borrowed Denials
Week Chart	Multiple Chart New chart in new tab Hide Issued Lic Highlight today
Preset Values Last 2 month Image: Preset Values Image: Values <th>Created DateTime Include concurrent overlap usage</th>	Created DateTime Include concurrent overlap usage
2013-09-17 is the oldest date available 2014-04-24 is the newest date available	Report Type Stacked Line Generate Chart
Date Range	Report Settings

Then select multiple features.

Report Settings Feature Server Detailed Hours Chart	List Reports Auto Reports Export Drill do	wn list Tools
	Width 243	Width 243 🚔
	<al></al>	<all></all>
Features - Servers	AutoCAD	ServerA
These reports are based on the 'log' table.	AutoCAD Architecture Revit Architecture Suite Revit MEP Suite	ServerB
Select Group	Features	Servers

Below are the multiple features stacked on top of each other with each feature as a separate line.



Used licenses - Features: AutoCAD,AutoCAD Architecture,Revit Architecture Suite,Revit MEP Suite - Servers: ServerA, ServerB Date range: 2013-10-16 to 2013-12-16; Time Frame: 00:00-23:59

Stacked percentage with fill effect

Select Date	2008-06-11 🚔 🗸	Time Frame	06:00-	18:00	-
Month Chart		Time Frame	From	08 : 00	×T

Select Report Type Stacked Line and the Fill effect checkbox.

Interval	10 minutes	Color	Fill effect
Multiple in One	Not In Use	Borrowed	Denials
Multiple Chart	New chart in n	ew tab 📃 Hide MaxLic	🔲 Highlight to:
Include concurr	rent overlap usage	Created DateTime	
Report Type	Stacked Percenta	ge 🔽 🚺	www.Generate C
	· · · ·		~ ~

Use in combination with the Feature Server or Detailed tab.



Used licenses - Features: Application1; Date range: 2008-06-01 to 2008-06-30; TimeFrame: 06:00-18:00

MinMaxAvg showing Max, Min, Avg used licenses and Standard deviation

Select Date 2009-01-01 🚑 🗸

Month Chart

Select Report Type MinMaxAvg and then select what lines to show or hide in the MinMaxAv Settings area. Use a larger interval like 1 day is recommended.

Interval	1 day 💽	Color	Fill effect	Show/Hide Lines
Multiple in One	Not In Use 💽	Borrowed	Denials	🗹 Min 📝 Max 📝 Avg
Multiple Chart	New chart in new	tab 🔲 Hide Issued Lic	Highlight today	Standard Deviation
Created DateT	ime 🔲 Include concu	urrent overlap usage	Differences	Avg Grouping
Report Type	MinMaxAvg		Generate Chart	Avg Grouping Value
	Report	Settings	Es.	MinMaxAvg Settings

Use in combination with the Feature Server or Detailed tab.



Used licenses - Features: Application1

Histogram

Select Date Range and Report Type Histogram.

File	Report Settings	Feature Server	Detailed	Auto Reports	Export	Drill down list
		Time Frame	06:00-18:	00 🔽	Enable M	lanual Time Frame
Month	Report					
Week F	Report 📝 Monday	🖌 Tuesday 🖌 We	dnesday 🗔	/ Thursday 🔽 Fri	day 🗌 Sa	turday 🗌 Sunday
OPreset	Values	2019-10-24 🔹	÷ To 20	19-11-26 🔹 韋	-	
2019-11-2	0 is the oldest date a	available	2019-	11-20 is the newes	t date avail	able
			Date Range	•		
			_			
Interval	10 minut	es 🗸 🗸	Color	✓ Fill effect		
Multipl	e Report					
Create	d DateTime 📃 Sur	nmation				
Report Ty	pe Histogram	-		Generate Rep	ort	
		Report Settings				

Use in combination with the Feature Server or Detailed tab.

Summation checkbox determines if multiple features are summed or not.

This example below shows that 100% of the time at least 1 license was used. 72% of the time at least 2 licenses was used, etc.



HistoGramChart: Features: Application1; Date range: 2009-01-01 to 2009-01-31



Multiple features without summation selected.

Histogram Chart - Features: A,B - Server: S Date range: 2019-10-24 to 2019-11-26



In this case both feature A and B have the same usage so when summation is used this is the result.

File Report Settings Feature Ser	ver Detailed	Auto Reports	Export	Drill do	wnlist	Tools			
		Se	arch Filter	Width	178 韋	Sea	rch Filter	Width	178 🌲
Features - Servers	-	<ai< td=""><td>Þ</td><td></td><td></td><td><aii< td=""><td>></td><td></td><td></td></aii<></td></ai<>	Þ			<aii< td=""><td>></td><td></td><td></td></aii<>	>		
These reports are based on the 'log' table.		B				2			
	Generate	e Report							
Select Group			F	eatures				Servers	
/ Histogram Chart 🛽			۰ ۵	A					



Unique users chart showing how many different users were using the feature per selected interval

Select Report Type Unique users.

This example is created using Interval 1 day.

Use in combination with the Feature Server or Detailed tab.

Select Date 2009-02-11 + -	Time Frame 00:00-23:59	💌 🔲 Enable Time Frame manual	Interval	1 day 🔽 Colo
Month Chart	Time Frame From :	🗙 Time Frame To 🛛 : 🗙	Multiple in One	Not In Use 💽 Borr
Week Chart			Multiple Chart	New chart in new tab
Preset Values Previous month	From 2009-02-11	To 2009-02-11	Include concur	rent overlap usage 📃 Created
2008-06-01 is the oldest date available	e 2009-01-30 is th	ne newest date available	Report Type	Unique users 🔹



Unique Users - Features: Application1

And here per 1 week interval.



Multiple feature groups are selected as well as multiple servers and plotted in the same chart

When multiple are selected like this and Multiple...in One is "Feature Groups" the data will be aggregated.

Report Settings Ferature Server	Detailed Hours Chart	List Reports Auto	Reports			
Select Date 2012-10-26 Time	Frame 06:00-18:00	💌 🗌 Enable Time	Frame manual	Interval	60 minutes	🔽 🗹 Co
Month Chart Time I	Frame From 💠 💌	K Time Frame To	: 🔫 🗙	Multiple in One	Feature Groups	💌 🗖 Bo
O Week Chart				Multiple Chart	New chart in n	iew tab 🔳
Preset Values Last 24 hours	● From 2012-09-17 ▼	🔁 To 2013-04-24 [*	Created DateT	ime 🔲 Include co	oncurrent ov
2012-09-17 is the oldest date available 2013-04-24 is the newest date available Report Type Continuous Line 🔽						
	Date Range				Rep	port Settings

Use in combination with the Feature Server or Detailed tab where one or many feature groups and servers can be selected.

	Width 243 🜩	Width 243 🜩
Feature Groups - Servers	<unassigned> AppGroup1 AppGroup2 AppGroup3</unassigned>	Server 1 Server 2 Server3 Server4
Generate Chart	I	1
Select Group	Feature Groups	Servers

The feature groups will each have one usage line aggregated for all selected servers.





Hours per user

Select Report Type Hour Chart in Report Settings and use in combination with Hours tab. Hours Used includes borrowed hours. Borrowed hours can be showed separately if needed but Hours Used will still include the borrowed hours.



To see one bar per user make use of Multiple ... in One on the Report Settings tab. The same is true for other combinations as well. If Not In Use is selected the time will be aggregated.



HoursChart: Hours per user; Date range: 2009-01-01 to 2009-01-31; TimeFrame: 00:00-23:59



A whole quarter but with interval set to 1 day

A Continuous Line Report Type, with interval set to 1 day used in combination with the Feature Server or Detailed tab. When using a longer time period like a quarter it is best to use a larger interval like 1 day or more. Issued Line checkbox is unchecked.



Used licenses - Features: AutoCAD, AutoCAD Architecture, Revit Architecture Suite, Revit MEP Suite - Servers: ServerA, ServerB

Multiple chart with one chart with all features and then one chart per feature in separate tabs

Use the Multiple Chart check box and optionally in combination with the Multiple...in One dropdown.

Use in combination with the Feature Server or Detailed tab.

Interval 1 day Color Multiple in One Features Borrowed Multiple Chart New chart in new tab Hide MaxLic Include concurrent overlap usage Created DateTime Report Type Continuous Line Report Settings Features				C	Report Settings	Feature	Server	Gro
Multiple in One Features Borrowed Multiple Chart New chart in new tab Hide MaxLic Include concurrent overlap usage Created DateTime Report Type Continuous Line Report Settings Features	Interval	1 day 💌 🔍	Color			Width	243	÷
Include concurrent overlap usage Created DateTime Report Type Continuous Line Report Settings Features	Multiple in One	Features 💌 🔳	Borrowed	Applica	tion1			
Include concurrent overlap usage Created DateTime Report Type Continuous Line Report Settings Features	Multiple Chart	New chart in new tab	Hide MaxLic	Applica Applica	tion2 tion3			
Report Type Continuous Line Report Settings Features	Include concur	rent overlap usage 🔲 Cro	eated DateTime	Applica AutoCA	tion4 \D 2010			
Report Settings Features	Report Type	Continuous Line						
		Report Settir		Featur	es			

MultiFeaturesInOne Application1 Application2 Application3



Database discrepancy

Compares data in the table Log and tables tblUserDetailedLog and tblUserDetailedLogPrev. Purpose with the report is to identify discrepancy between these tables.

File	Report Settings	Feature Server	Detailed	Export	Drill down list	Tools					
								Interval	1 day 🔹		
O Month R	leport										
Week Re	eport							New Tab			
Preset V	Preset Values Last 14 days From-To							Include concurrent overlap usage			
2020-09-17	is the oldest date a	available	2021-0	04-24 is th	e newest date avai	lable		Report Type	Database discrepancy 💌	Generate Repo	
			Date Range						Report Settings		
									···· ^		
Da	atabase disc	repancy repor	t⊗								

	Database disci	cpancy report w						
	Server	Date	Feature	Issued Licenses	Used1	Used2	Borrowed1	Borrowed2
Þ	ServerA	2021-01-04 09:00:00	64300ACD_F	150	0	1	0	0
	ServerA	2021-01-03 13:00:00	64300ACD_F	150	0	1	0	0
	ServerA	2021-01-04 10:00:00	64300ACD_F	150	0	1	0	0
	ServerA	2021-01-04 15:00:00	64300ACD_F	150	0	1	0	0
	ServerA	2021-01-04 19:00:00	64300ACD_F	150	0	1	0	0

List Reports

Make selection of date range and interval.

Duplicate and Multiply the Time are normally unchecked.

Report Settings List Report Auto Reports	
Select Date 2017-12-14 Time Frame 00:00-23:59 Enable Manual Time Frame	Interval 10 minutes Duplicate
Month Report	Multiply the Time
💿 Week Report 🕼 Monday 🕼 Tuesday 🕼 Wednesday 🕼 Thursday 🕼 Friday 🕼 Saturday 🕼 Sunday	Report Type
Preset Values From	
2017-09-17 is the oldest date available 2018-04-24 is the newest date available	
Date Range	Report Settings

Select List Report tab and make selections

Report Sett	ings List Report Auto Reports
List Report Type	Used Licenses
Selection	User - Host
Aggregate Interval	Day
	Generate Report
	Report Settings

When ready press Generate Report.

Detailed List Re	sport 🙁							
Date	Server	Feature	User	UserGroup	Host	HostGroup	Hours	Hours&Minu
2017-12-01	ServerA	AutoCAD	User008	UserGroupA	Host003	HostGroupA	5.66	5:40
2017-12-01	ServerA	AutoCAD	User010	UserGroupA	Host008	HostGroupB	3.66	3:40
2017-12-01	ServerA	AutoCAD	User011	UserGroupA	Host011	HostGroupB	0.33	0:20
2017-12-01	ServerA	AutoCAD	User014	UserGroupA	Host215		8.33	8:20
2017-12-01	ServerA	AutoCAD	User025	UserGroupA	Host070		0.16	0:10
2017-12-01	ServerA	AutoCAD	User043	UserGroupB	Host101		1.00	1:00
2017-12-01	ServerA	AutoCAD	User048	UserGroupB	Host195		23.83	23:50
2017-12-01	ServerA	AutoCAD	User059	UserGroupB	Host292		1.16	1:10
2017-12-01	ServerA	AutoCAD	User081		Host014	HostGroupB	3.49	3:30
2017-12-01	ServerA	AutoCAD	User089		Host006	HostGroupA	7.33	7:20
2017-12-01	ServerA	AutoCAD	User090		Host001	HostGroupA	0.16	0:10
2017-12-01	ServerA	AutoCAD	User091		Host029		0.16	0:10
2017-12-01	ServerA	AutoCAD	User105		Host125		0.50	0:30
2017-12-01	ServerA	AutoCAD	User107		Host201		7.99	8:00
2017-12-01	ServerA	AutoCAD	User120		Host142		0.16	0:10
2017-12-01	ServerA	AutoCAD	User124		Host174		1.66	1:40
2017-12-01	ServerA	AutoCAD	User125		Host096		9.33	9:20
2017-12-01	ServerA	AutoCAD	User136	UserGroupC	Host245		2.66	2:40
2017-12-01	ServerA	AutoCAD	User149	UserGroupC	Host085		11.49	11:30
2017-12-01	ServerA	AutoCAD	User160	UserGroupC	Host080		8.00	8:00
2017-12-01	ServerA	AutoCAD	User165	UserGroupC	Host136		1.99	2:00
2017-12-01	ServerA	AutoCAD	User171	UserGroupC	Host274		6.16	6:10
2017-12-01	ServerA	AutoCAD	User177	UserGroupC	Host257		0.83	0:50
2017-12-01	ServerA	AutoCAD	User185	UserGroupC	Host275		0.50	0:30
2017-12-01	ServerA	AutoCAD	User199	UserGroupC	Host268		19.66	19:40
2017-12-01	ServerA	AutoCAD	User206	UserGroupC	Host235		0.16	0:10
2017-12-01	ServerA	AutoCAD	User208	UserGroupC	Host021	HostGroupC	0.66	0:40
2017-12-01	ServerA	AutoCAD	User211	UserGroupC	Host200		8.66	8:40
2017-12-01	ServerA	AutoCAD	User214		Host188		10.66	10:40
2017-12-01	ServerA	AutoCAD	User235		Host082		1.83	1:50

Used Licenses

This report is only shows usage, not including any borrowed usage of licenses.

Use Selection to determine what columns to see.

File	Report	Settings	List Report	Auto Reports	Export	
List Repor	rtType	Used Lic	enses			•
Selection		Server -	Feature - User -	Host		-
Aggregate Interval		Server -	Feature - User - I	Host		
Server Server Server			Feature Group - Feature - User Feature - Host	User - Host		
		Server -	Feature			
		Feature	User - Host			
		Feature	-User			•
		Feature	- Host			
		Feature				
		User				
	Server -			Host - Project		
		Server -	Feature - User - I	Project		

Example of report:

Li	List Report Type Used Licenses		•	Preview Report	Print Report	Export to Excel			
Se	election	Server - Feature - User - Host 🔹							
Ag	gregate Interval	Day		•					
Generate Report									
		Report	t Settings			Print and Export Rep	orts		
	Detailed List R	eport 🙁					A	• •	
	Date	Server	Feature	User	UserGroup	Host	HostGroup	Hours	Hours & Min
Þ	2020-03-20	ServerB	AutoCAD	User175	UserGroupC	Host256		23.83	23:50
	2020-03-20	ServerA	AutoCAD	User083		Host005	HostGroupA	23.83	23:50
	2020-03-21	ServerB	AutoCAD	User175	UserGroupC	Host256		23.83	23:50
	2020-03-22	ServerB	Revit MEP Suite	User149	UserGroupC	Host085		23.83	23:50
	2020-03-22	ServerB	AutoCAD	User175	UserGroupC	Host256		23.83	23:50
	2020-03-22	ServerA	AutoCAD	User083		Host005	HostGroupA	23.83	23:50
			and the second second						

Borrowed Licenses

This report is only including borrowed usage of licenses.

Use Selection to determine what columns to see.

List Report Type	Borrowed Licenses -					
Selection	Server - Feature - User - Host 🔹					
Aggregate Interval	Server - Feature - User - Host					
riggrogato interrar	Server - Feature Group - User - Host					
	Server - Feature - User					
	Server - Feature					
	Feature - User - Host					
	Feature - User					
	A 1000000					

Example of report:

L S A	Selection Server - Feature - User - Host Aggregate Interval Day Generate Rep			Generate Report	Preview Report	Print Report	Export to Excel		
	Detailed List R	Report	Settings			Print and Export Rep	orts	• 4	
		opon: •							
F	Date	Server	Feature	User	UserGroup	Host	HostGroup	Hours	Hours & Min
,	Date 2020-05-21	Server ServerA	Feature AutoCAD	User User228	UserGroup	Host Host037	HostGroup	Hours 16.16	Hours & Min 16:10
,	Date 2020-05-21 2020-05-21	Server ServerA ServerA	Feature AutoCAD AutoCAD	User User228 User246	UserGroup	Host Host037 Host145	HostGroup	Hours 16.16 16.16	Hours & Min 16:10 16:10
,	Date 2020-05-21 2020-05-21 2020-05-21	E Server ServerA ServerA ServerA	Feature AutoCAD AutoCAD Revit	User User228 User246 User019	UserGroupA	Host Host037 Host145 Host060	HostGroup	Hours 16.16 16.16 16.16	Hours & Min 16:10 16:10 16:10
•	Date 2020-05-21 2020-05-21 2020-05-21 2020-05-21 2020-05-21	ServerA ServerA ServerA ServerA ServerB	Feature AutoCAD AutoCAD Revit AutoCAD	User User228 User246 User019 User195	UserGroupA UserGroupA UserGroupC	Host Host037 Host145 Host060 Host263	HostGroup	Hours 16.16 16.16 16.16 16.16	Hours & Min 16:10 16:10 16:10 16:10
	Date 2020-05-21 2020-05-21 2020-05-21 2020-05-21 2020-05-21 2020-05-21	E Server ServerA ServerA ServerA ServerB ServerB	Feature AutoCAD AutoCAD Revit AutoCAD Revit MEP Suite	User User228 User246 User019 User195 User067	UserGroupA UserGroupC	Host Host037 Host145 Host060 Host263 Host071	HostGroup	Hours 16.16 16.16 16.16 16.16 16.16	Hours & Min 16:10 16:10 16:10 16:10 16:10
•	Date 2020-05-21 2020-05-21 2020-05-21 2020-05-21 2020-05-21 2020-05-21	ServerA ServerA ServerA ServerB ServerB ServerB	Feature AutoCAD AutoCAD Revit AutoCAD Revit MEP Suite Revit MEP Suite	User User228 User246 User019 User195 User067 User206	UserGroupA UserGroupC UserGroupC	Host Host037 Host145 Host060 Host263 Host071 Host079	HostGroup	Hours 16.16 16.16 16.16 16.16 16.16 16.16	Hours & Min 16:10 16:10 16:10 16:10 16:10 16:10

Used and Borrowed Licenses

This report is including used and borrowed usage of licenses.

Use Selection to determine what columns to see.

List Report Type	Used and Borrowed Licenses	•		
Selection	Server - Feature - User - Host	•		
Aggregate Interval	Server - Feature - User - Host			
riggrogato interrar	Server - Feature Group - User - Host			
	Server - Feature - User			
Server - Feature - Host				
	Server - Feature			
	Feature - User - Host			
	Feature - User		·	
	Feature - Host			
	Feature			
	Server - Feature - User - Host - Project			
	Server - Feature - User - Project			

Example of report:

List Report Type Used and Borrowed Licenses			•	Preview Report	Print Report	Export to Excel		
Selection	Server - Feature - User - Host							
Aggregate Interval	Day		•					
Generate Re								
	Report	Settings			Print and Export Rep	orts		
Detailed List R	leport 😣					۵	" <u> </u>	
Date	Server	Feature	User	UserGroup	Host	HostGroup	Hours	Hours & Min
2020-06-19	ServerA	AutoCAD	User135	UserGroupC	Host252		17.49	17:30
2020-06-18	ServerA	AutoCAD	User135	UserGroupC	Host252		23.83	23:50
2020-06-17	ServerA	AutoCAD	User135	UserGroupC	Host252		23.83	23:50
2020-06-16	ServerA	AutoCAD	User135	UserGroupC	Host252		23.83	23:50
2020-06-15	ServerA	AutoCAD	User135	UserGroupC	Host252		23.83	23:50

Min/Max/Avg Usage

This report is to show minimum, maximum and average usage of licenses.

Aggregate options:

List Report Type	Min/Max/Avg Usage					
Selection						
Aggregate Interval	Server Sum Per Month Concurrent 🔹					
	Day					
	Month					
	Year					
	Per Day Per Server					
	Per Month Per Server					
	Per Year Per Server					
	Server Sum Per Day					
	Server Sum Per Month					
	Server Sum Per Year					
	Server Sum Per Day Concurrent					
	Server Sum Per Month Concurrent					
	Server Sum Per Year Concurrent					

Day (max/min no matter on what server or time)

Month (max/min no matter on what server, day or time)

Year (max/min no matter on what server, month, day or time)

Per Day Per Server (max/min per server per day)

Per Month Per Server (max/min per server per month)

Per Year Per Server (max/min per server per year)

Server Sum per Day (max/min per day of any time on each server and then

Server Sum per Month (max/min per month of any time on each server and then summed)

Server Sum per Year (max/min per year of any time on each server and then summed)

Server Sum per Day Concurrent (max/min per day of sum at all concurrent times)

Server Sum per Month Concurrent (max/min per month of sum at all concurrent times)

Server Sum per ear Concurrent (max/min per year of sum at all concurrent times)

Example of report:

List Report Type Selection Aggregate Interv	e Min/Max/Avg Usage		▼ ▼ Generate Report	Preview Report	Print Report	Export to Excel
Detailed Li	Report Set	tings		F	rint and Export Repo	orts
Date	E Feature	Total	MaxUsed	MinUsed	AvgUsed	STDDV_Used
2020-03-19	AutoCAD	150	3	2	2.36	0.48
2020-03-19	AutoCAD	15	3	3	3	0
2020-03-19	9 Revit	21	2	2	2	0
2020-03-19	Revit MEP Suite	20	1	1	1	0
2020-03-20	AutoCAD	150	2	2	2	0
2020-03-20	O AutoCAD	15	3	3	3	0
2020-03-20	0 Revit	21	2	2	2	0
2020-03-20	0 Revit MEP Suite	20	1	0	0.29	0.46
2020-03-21	1 AutoCAD	150	16	2	6.72	4.93
2020-03-21	1 AutoCAD	15	6	3	3.78	1.15

User Groups

This report is showing usage per user group.

Use Selection to determine what columns to see.

List Report Type	User Groups	•
Selection	User Group	•
Aggregate Interval	User Group	
	Min Max Avg	

Example of User Group selection:

Li	t Report Type User Groups User Group User Group				v Report Print Report	Export to Excel			
A	Aggregate Interval Per Day			•					
Generate Report				e Report					
		Report Settings			Print and Export Reports)			
	Detailed List Re	port 😣				A	2		
Г	Date	E Feature	UserGroup	 Hours 	Hours Borrowed HH:MM	Hours Used	Hours Used HH:MM	Hours Total	Hours Total HH:MM
•	2020-03-30	AutoCAD Architecture	UserGroupC	40.49	40:30	61.80	61:50	102.29	102:20
	2020-04-11	AutoCAD		36.16	36:10	47.60	47:40	83.76	83:50
	2020-04-12	Revit MEP Suite		31.83	31:50	54.10	54:10	85.93	86:00
	2020-04-22	Revit MEP Suite		31.66	31:40	49.41	49:30	81.07	81:10
	2020-03-25	AutoCAD		28.83	28:50	41.77	41:50	70.60	70:40
	2020-03-26	AutoCAD Architecture	UserGroupC	25.66	25:40	23.83	23:50	49.49	49:30
	2020-04-01	AutoCAD Architecture	UserGroupC	25.66	25:40	44.28	44:20	69.94	70:00
	2020-03-20	Revit Architecture Suite	UserGroupB	23.83	23:50			23.83	23:50
	2020-03-20	Revit Architecture Suite	UserGroupA	23.83	23:50			23.83	23:50
	2020-03-20	AutoCAD Architecture	UserGroupC	23.83	23:50	23.83	23:50	47.66	47:40

Example of Min Max Avg selection:

File	Report Se	ettings List	Report	Auto Reports	Export								
List Report T	уре	User Groups				•							
Selection		Min Max Avg				-							
Aggregate Int	erval	Per Month				-							
	Generate Report												
Report Settings													
Detailed List Report 2													
Date	Y∎ Feat	ture		UserGroup	Max us	age	Min usage	Avg usage	Standard deviation				
2020-Ma	r Rev	it MEP Suite		UserGroupC		5	1	1.9	1.1				
2020-Ma	r Rev	it MEP Suite		UserGroupB		6	1	2.1	1.1				
2020-Ma	r Rev	it MEP Suite		UserGroupA		5	1	1.7	1				
2020-Ma	r Rev	it MEP Suite				11	1	3.3	2.4				
2020-Ma	r Rev	it Architectur	e Suite	UserGroupC		2	1	1	0.1				
2020-Ma	r Rev	it Architectur	e Suite	UserGroupB		3	1	1.1	0.3				
2020-Ma	r Rev	it Architectur	e Suite	UserGroupA		5	1	1.6	1				
2020-Ma	r Rev	it Architectur	e Suite			12	1	4	2.8				
2020-Ma	r Auto	CAD Archite	cture	UserGroupC		9	2	3.9	1.1				
2020-Ma	r Auto	CAD Archite	cture	UserGroupB		2	1	1	0.2				
2020-Ma	r Auto	CAD Archite	cture	UserGroupA		3	1	1.2	0.4				
2020-Ma	r Auto	CAD Archite	cture			3	1	1.1	0.4				
2020-Ma	r Auto	CAD		UserGroupC		10	1	3.3	2.1				
2020-Ma	r Auto	CAD		UserGroupB		7	1	2.3	1				
2020-Ma	r Auto	CAD		UserGroupA		5	1	1.5	0.7				
2020-Ma	r Auto	CAD				15	1	3.4	2.6				
	_					-							

Host Groups

This report is showing usage per host group.

File	Report	Settings	List Report	Auto Reports	Export				
List Repor	rtType	Host Gro	oups			-			
Selection		Host Group 🗸							
	Interval	Host Group							
nggrogato		Min Max	Avg						
					Generate	Report			

Example of Host Group report:

List Report Type	Host Groups		Preview F	Report Print Report E	Export to Excel			
Selection	Host Group		•					
Aggregate Interval	Per Day		-					
Generate Report								
	Report Settings			Print and Export Reports				
/ Detailed List R	eport 🗵				<u> </u>			
Date	E Feature	HostGroup	× Hours Borrowed	Hours Borrowed HH:MM	Hours Used	Hours Used HH:MM	Hours Total	Hours Total HH:MM
2020-04-07	Revit Architecture Suite		1.83	1:50	42.62	42:40	44.45	44:30
2020-04-10	AutoCAD Architecture		1.83	1:50	23.83	23:50	25.66	25:40
2020-04-11	Revit Architecture Suite		1.83	1:50	61.10	61:10	62.93	63:00
2020-04-21	AutoCAD Architecture		0.66	0:40	71.90	72:00	72.56	72:40
2020-03-19	Revit MEP Suite				6.83	6:50	6.83	6:50
2020-03-19	AutoCAD	HostGroupA			6.83	6:50	6.83	6:50
2020-03-20	Revit MEP Suite				6.83	6:50	6.83	6:50
2020-03-20	AutoCAD	HostGroupA			23.83	23:50	23.83	23:50

Example of Min Max Avg report:

F	File Report S	Settings	List Report	Auto Reports	Export									
Lis	t Report Type	Host Gro	oups		•									
Se	lection	Min Max	Avg		•									
Ag	gregate Interval	Per Day			•									
	Generate Report													
					۵	۵								
	Detailed List N	E Feat		Hast Crown	Maxucada	Minucago	Avgussas	Standard						
	2020 01 21	= redu		Host Group	Max usage	Min usage	Avg usage	Standard						
F	2020-01-31	Auto	CAD	HostGroupC	1	1	1.4	0.5						
	2020-01-30	Auto	CAD	HostGroupC	1	1	1	0						
	2020-01-29	Auto	CAD	HostGroupC	1	1	1.4	0.7						
	2020-01-20	Auto	CAD	HostGroupC	2	1	1.4	0.7						
2020-01-27 AutoCAD Ho			HostGroupC	2	1	1.4	0.5							
	2020-01-20	Auto	CAD	HostGroupC	2	1	1.4	0.5						
	2020-01-25	Auto	CAD	HostGroupC	4	1	1.2	0.0						
	2020-01-24	Auto	CAD	riostaroupe	4	1	1.0	0.7						

Denied Requests

This report is showing denial of licenses. Denials by one user/host/feature combination that happens shortly after each other are grouped and show at what time the first denial happened and the last denial happened and the Denials column shows the number of denials. If a license was found within 10 minutes after the last denial the License Found column shows Yes.

Example of report:

Li	st Report Type	Denied Requests		-	Preview Report	Print Report	Export to Excel	
Se	election			-				
List Report Type Denied Requests Selection Aggregate Interval All Generate Report Settings Detailed List Report S Date UserName HostName Feature								
		Report S	ettings		Pri	nt and Export Reports		
	Detailed List R	eport 😣					۵ ····· ۵	
	Date	I UserName	HostName	Feature	FirstDenial	SecondDenial	License found	Denials
Þ	2020-02-03	User003	Host167	AutoCAD	2020-02-03 14:03	2020-02-03 14:04	No	3
	2020-02-03	User004	Host221	AutoCAD	2020-02-03 13:58	2020-02-03 14:02	No	3
	2020-02-03	User003	Host167	AutoCAD	2020-02-03 13:55	2020-02-03 14:01	No	2
	2019-10-05	User003	Host167	AutoCAD	2019-10-05 14:03	2019-10-05 14:04	No	3
	2019-10-05	User004	Host221	AutoCAD	2019-10-05 13:58	2019-10-05 14:02	No	3
	2019-10-05	User003	Host167	AutoCAD	2019-10-05 13:55	2019-10-05 14:01	No	2

Raw data Report

This report is showing the raw data from tables tblUserDetailedLog and tblUSerDetailedLogPrev. This shows the start and end date/time for each license usage.

Example of report:

List Report Type Selection Aggregate Interval	Raw data Re	port	Generate F	Preview Report	Print	Report	Export to Excel				
	Report Settings Print and Export Reports										
Detailed List R	eport 😣						2	<u> </u>			
Date	Server	ServerDes	Feature	FeatureDescription	User	Host	Start	End	Minutes	Hours	BorrowEnd
2020-04-23	ServerA		64300ACD_F	AutoCAD	User222	Host190	2020-04-23 05:32	2020-04-23 12:20	408	6.80	
2020-04-23	ServerA		64300ACD_F	AutoCAD	User248	Host072	2020-04-23 05:39	2020-04-23 05:50	11	0.18	
2020-04-23	ServerA		64300ACD_F	AutoCAD	User248	Host072	2020-04-23 06:03	2020-04-23 06:20	17	0.28	
2020-04-23	ServerA		64300ACD_E	AutoCAD	licer248	Host072	2020-04-23 08:32	2020-04-23 09:00	28	0.47	

Raw Sampled data Report

This report is showing the raw data from table UserDetailedLogTemp. This shows the sampled start and end date/time for each license usage. If the sampling service is used UserDetailedLogTemp is populated based on data from tblUserDetailedLog and tblUserDetailedLogPrev.

Example of report:

List Report Type Raw Sampled data Report Selection Aggregate Interval Generate Report Becent Settinge						Report Print Report	Export to Excel.				
			Report Settings			Print and Export Rep	orts				
	/ Detailed List R	eport 😣					<u> </u>				
Г	Date	^	Server	ServerDescri	Feature	FeatureDescription	User	Host	Licenses	ID	ProjectID
	2020-05-20 09	:10:00	ServerA		64300ACD_F	AutoCAD	User135	Host252	1	16883	0
	2020-05-20 09	:10:00	ServerA		64300ACD_F	AutoCAD	User228	Host037	1	16860	0
	2020-05-20 09	:10:00	ServerA		64300ACD_F	AutoCAD	User246	Host145	1	16861	0
	2020-05-20 09	:10:00	ServerB		65300ARCHDESK_F	AutoCAD Architecture	User175	Host256	1	16865	0
	2020-05-20 09	:10:00	ServerB		65300ARCHDESK_F	AutoCAD Architecture	User195	Host263	1	16866	0
	2020-05-20 09	:10:00	ServerB		65200REVSYP_F	Revit MEP Suite	User206	Host079	1	16863	0
	2020-05-20 09	:10:00	ServerB		65200REVSYP_F	Revit MEP Suite	User226	Host065	1	16864	0
	2020-05-20 09	:10:00	ServerA		65900REVITS_F	Revit Architecture Suite	User019	Host060	1	16859	0
	2020-05-20 09	:10:00	ServerB		65200REVSYP_F	Revit MEP Suite	User067	Host071	1	16862	0
10	2020 05 20 00		Company		C42004 CD E	Auto CAD	User DAC	Line and AT	4	10001	0

Pinged Host Report

If correctly set up in JTB FlexReport Config hosts (computers) borrowing a license can be monitored to see if they are connected to the network and maybe should return the borrowed license earlier.

Example of report:

List Report Type	Pinged Host Report		•	Preview Report	Print Report F	xport to Excel	
Selection	Report		•				
Aggregate Interval							
		G	enerate Report				
	Report Settin	ngs		Pri	nt and Export Reports		
Detailed List R	eport 🗵					A A	
CheckedOutD	ate 🗉 Server Name	User Name	User Host	Feature	FirstOnline	LastOnline	BorrowedUntil
2019-02-01	ServerA	User001	Host001	64300ACD_F	2019-02-01 10:00	2019-02-01 10:00	2019-02-28 00:00

Example of Raw Report showing all borrowed licenses and PingResult showing OK if you they cash be pinged, otherwise ERR.

Lis	st Report Type	Ping	jed Host Rej	port	-	Prev	iew Report	Print Repo	rt Export to					
Se	lection	Raw	Report		-									
Aggregate Interval														
	Generate Report													
							_							
			Rep	ort Settings					Pr	int and Export F	Reports			
2	Detailed List Report &													
	CheckedOutDa	ate	Server	Feature	User	Host	Ling	erDate	LicHandle	PingDate	PingResult			
۲	2019-02-01		ServerA	64300ACD_F	User002	Host002	2019	-02-16	7	2019-02-02	ERR			
	2019-02-01		ServerA	64300ACD_F	User001	Host001	2019	-02-16	8	2019-02-01	ERR			
	2019-02-01		ServerA	64300ACD_F	User001	Host001	2019	-02-28	5	2019-02-01	ОК			

Features List Report

The "Features List Report" is useful to find information on what data exists in the database for each feature. The dates for the date 'A' columns are from the 'log' database table and the dates for the date

'B' columns are from a union of the database tables 'tblUserDetailedLog' and 'tblUserDetailedLogPrev'.

'A' is used for reports created with the Feature Server tab and the Detailed tab.

'B' is used for reports created with the Detailed tab and Hours Chart tabs where users or hosts are involved.

The Count columns show how many rows of data there is for each feature.

Features List Report 😣									
Features	E FeatureNameDescription	First date A	Last date A	CountA	First date B	Last date B	CountB	ServerName	ServerNameDescription
64300ACD_F	AutoCAD	2019-09-17 14:50:00	2020-08-31 23:50:00	49680	2019-09-17 14:50:00	2020-08-24 13:50:00	7131	ServerA	ServerA
65300ARCHDESK_F	AutoCAD Architecture	2019-09-17 14:50:00	2020-08-31 23:50:00	49680	2019-09-17 14:50:00	2020-05-21 16:20:00	2084	ServerB	ServerB
65900REVITS_F	Revit Architecture Suite	2019-09-17 14:50:00	2020-08-31 23:50:00	49680	2019-09-17 14:40:00	2020-05-21 16:20:00	3898	ServerA	ServerA
65200REVSYP_F	Revit MEP Suite	2019-09-17 14:50:00	2020-08-31 23:50:00	49680	2019-09-17 14:50:00	2020-05-21 16:20:00	3778	ServerB	ServerB

This report can be previewed and printed with "Report Preview".

A custom report can be created with "Create Grid Report", printed or exported to PDF or an image file.

Miscellaneous questions answered

Why are there dips in the charts?

The reason for this can be that the interval is set too low for the data that exists in the database.

You might have specified JTB FlexReport to save data with a 20 minute interval and you try to create the chart with a 10 minute interval.

In this example the database mostly contain data with an interval of 10 minutes, but for some reasons like lack of server connections there are sometimes data missing and resulting in dips like this.



The solution is to increase the interval for the chart creation and it will look better.





How to move the JTB FlexReport Report Service installation to another server?

Install JTB FlexReport Report Service on the new server. You can optionally copy all .config files in the JTB FlexReport old folder to the new location as this will keep your database configurations or run JTB FlexReport Service Configurator and make sure all settings are ok and then configure and start the services.

The setting files are saved on the computer where JTB FlexReport Service is installed in this folder and can be moved to the new server:

%ALLUSERSPROFILE%\JTB World\JTB FlexReport Service

%ALLUSERSPROFILE% location: XP: C:\Documents and Settings\All Users Vista, Windows 7, Windows 8, Windows 8.1, Windows 10: C:\ProgramData

What discrepancies in the reports should I be aware of?

Data that is saved to the "log" table is saved at the snapshot interval specified in JTB FlexReport Config. Say you have an interval of 10 minutes. The charts might show that you have not reach your maximum usage but still you have found that licenses have been denied.

Here is an example showing why.

11:30 49 licenses are used.11:40 49 licenses are used.11:50 48 licenses are used.

But it might happen that at 11:35 50 licenses were used. Because of the interval setting you will not see this in reports based on the "log" table.

On the other hand, the data saved into tblUserDetailedLog and tblUserDetailedLogPrev saved data on a lower level with both start and stop time for each user using a license. As there are much more data in these tables it will take much longer time to produce reports based on them, but it might show a slightly more correct picture of the usage.

But reports based on the detailed logs can also in some cases show too much usage because the time when a license is returned (checked in) to the license server is not known. Example. Say a license is checked out at 11:30 and it is checked in at 11:57. If the snapshot setting is at 10 minutes the time is saved as 12:00 instead of 11:57. Because of this you might find that when data is aggregated to find concurrent licenses used based on the detailed logs compared to the log table there is a discrepancy. It can even result in a chart showing that more licenses are used than what you have.

There is a second interval that is used for the detailed tables. It is a sampling interval that can be anything from 1 minute up to 60 minutes but not lower than the snapshot interval. The lower sampling interval the more correct result but the time to produce the reports will take longer. Usage between
11:30 and 11:34 will not be sampled if the interval is 10 minutes as the time is rounded to nearest half of the interval.

Here is a chart created using the Feature Server tab.



And here is a chart created using the Detailed tab. Notice how the number of licenses used exceeds the number of licenses available. Normally if only feature and server info should be reported on it is best to use the Feature Server tab whenever possible.



Hours reported using the hour chart report type is not making use of the Interval on the Report Settings tab. It is only using the sampling interval specified in JTB FlexReport Service Configurator. The lower interval the more correct result. Example: A license is used between 8:16 and 9:49. If the sampling interval is 10 minutes it will create a usage between 8:10 and 9:40. It is rounding down the start time to nearest value rounded by the interval, in this case from 8:16 to 8:10 and the end time from 9:49 to 9:40. But if the sampling is at 1 minute the result will be between 8:16 and 9:49. Conclusion is that to lower the sampling interval for best accuracy and especially if applications are used for quite short time (less than 30 min) per session. In case like this it is also recommended to lower the snapshot interval in JTB FlexReport Config to lower than the default 10 minutes.

Other tips and tricks

In case of errors there are different log files created that can be sent to JTB World for further investigation. "Program Files (x86)" below is "Program Files" on 32-bit Windows.

Client: **%localappdata%\JTB World\JTB FlexReport Client\Logs** and/or the installation folder that by default is **C:\Program Files (x86)\JTB World\JTB FlexReport Client**

Service: %programdata%\JTB World\JTB FlexReport Service and/or %ALLUSERSPROFILE%\JTB World\JTB FlexReport Service\Logs and/or the installation folder that by default is C:\Program Files (x86)\JTB World\JTB FlexReport Service To get more data in some of the service logs this can be done.

```
Edit this file in Notepad.
C:\Program Files (x86)\JTB World\JTB FlexReport Service\JTB FlexReport Chart Service.exe.config
Change this row
<level value="INFO" />
Into
<level value="DEBUG" />
```

Same can be done with JTB FlexReport Sampling Service.exe.config and JTB FlexReport Auto Chart Service.exe.config.

After that run reports of let services run for some time and send logs to JTB World.

If you get the error "Cannot open database"<database name" requested by the login. The login failed. Login failed for user 'NT AUTHORITY\ANONYMOUS LOGIN'." To add a Windows Authentication user use NT AUTHORITY\SYSTEM as login name. JTB services are by default running using the "Local System" account. Change them to run with an account that has access to the SQL database. Another solution is to use SQL authentication connection.

JTB FlexReport 3		
(į)	Cannot open database "JTB" requested by the login. The login failed. Login failed for user 'NT AUTHORITY'ANONYMOUS LOGON'.	

The database needs 'db_backupoperator', 'db_datareader' and 'db_datawriter' permissions for the SQL Server database.

Try to use port 2003, 2004 or ports in a series after that. The ports should match between Service and Client Configurators.

Check the Windows Event Viewer for any Application or System errors being logged that are related to JTB FlexReport.

If Test Service Engine gives this error: "The Remote Name Could Not Be Resolved: 'localHost'" and if the Event Viewer has this event (Event ID: 15005 Source: HTTP) you can try to change the port number to next number. Typically try port numbers from 2000 and up. This is also a message that might come up: "Unable to bind to the underlying transport for 0.0.0.2000. The IP Listen-Only list may contain a reference to an interface which may not exist on this machine. The data field contains the error number."

"Service connection Failed. The request failed with HTTP status 504: Unknown Host." might show while starting the Configurator. Use IPV4 address or edit the Windows host file.

Try to use IP number instead of host name for the JTB Report Service or Process Service.

Make sure to use the name or IP of the machine in the service configurator where JTB FlexReport Service is installed. The same should be used in the client configurator.

Make sure that there is no firewall blocking any of the JTB FlexReport exe files or ports used. It might be needed to add exceptions for the exe files and the port used.

Check if the service is running in Windows Services.

Make sure that the service address is the same in all the config files in the installation folders for the Service and Client: "JTB FlexReportClient.exe.config", "JTB FlexReport Sampling Service.exe.config" and "JTB FlexReport Service Configurator.exe.config". The address can be for example: http://MyServer:2000/Service

To test from the client if it has contact with the server service you can in the installation folder 'JTB FlexReport Client' locate JTB FlexReportClient.exe.config and locate near the end of the file this row: <endpoint address="http://MyServer:2000/Service". Now try to enter the address in a web browser and see if there are any problems to access the service or not. You can also try to ping the actual server.

Using netstat -o in command prompt window will help to identify ports that are used on the machine. Sometimes the port configured is already used and to solve the conflict you need to change the port in the configuration on the server and the client.

If test of service engine gives this error "Please start the Service before testing. The remote name could not be resolved: 'localhost'' and/or if the Windows Event Viewer with Event Source: JTBFlexReportWCFService has this error it is an indication that an older .NET Framework version is installed or that it needs reinstall. 3.0 or newer is needed. It might help to use IP address or fix the host name problem.

Event error description: Service cannot be started. System.Configuration.ConfigurationErrorsException: Configuration system failed to initialize ---> System.Configuration.ConfigurationErrorsException: Unrecognized configuration section system.serviceModel.

Auto Filter: This applies to simplify making selections in the list boxes of features, servers, users, hosts, etc. Note: If the database is large and with many rows in the tables this can cause the Client to take a long time to open so you might want to disable this feature for this reason.

If the reports that are using the Details tab or the Hours Chart tab only works partly or not at all it could be because the data sampling is not done or has stopped. Make sure the JTB FlexReport Sampling Service is running and if needed activate it in JTB FlexReport Service Configurator. It can be needed to press the "Clear" button followed by "Sampling All Records" then wait some time. If the database is large it can take some hours. One more thing you can check is that the JTBFlexReport.NET-temp.mdb database is not close to 2GB in size. In that case you can try to delete it and then re-sample the data. If the size after some time gets close to 2GB again you will need to start with a new core database or backup and delete some old data before re-sample again.

Favorites data is saved in this folder on the client:

%LOCALAPPDATA%\JTB World\JTB FlexReport Client\Gallery

For example: C:\Users\jtb\AppData\Local\JTB World\JTB FlexReport Client\Gallery

These can be made backup of or be copied to another computer if need be.

Auto report settings files are saved as XML files in this folder:

C:\ProgramData\JTB World\JTB FlexReport Service

Q. Why is the Client slow to start?

A. It can be because of the Auto Filter. See the main application menu for its checkbox. If the database is large and with many rows in the tables this can cause the Client to take a long time to open so you might want to disable this feature for this reason. Version 2020.11.0 and newer does not have this problem.

Q. Why is it taking several minutes to create reports?

A. It could be due to a very large database or it might help to just restart the server.

Q. How can I check the size of the SQL Server tables?

A. Run SQL Server Management Studio (SSMS).

Right click on the database

Navigate to Reports > Standard Reports > Disk Usage By Table

Q. I get an error like "The table tblDeniedUserLog contain duplicates resulting in database size and performance issues." using Update DB. How can I remove the duplicates?

A. If the database is MS Access you can make use of JTBFlexReportMergeDBs.zip that is in JTB FlexReport folder. If SQL Server database is used you might need to use the update script "JTB FlexReport SQL create and copy db version <version>.txt" found under https://itbworld.com/jtb-flexreport#download.