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## License Metrics and Concurrent Usage

 | Updated March 16, 2016 by [AdarshSaxena](#) | Tags: *None*

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### Introduction:

The license metric table (LICENSE\_METRIC) was introduced in IBM TRIRIGA platform version 3.3.2. It records active user count, for every license, at a fixed recurring interval of time.

### Functionality:

A new background agent called the Concurrent License Agent was created to accomplish this task. This agent is not exposed to administrators for management within the Administrator Console -> Agents Tab. The Concurrent License agent starts on server startup, and only one instance of it will run at any given time even in a multi-server environment. The agent checks and records active usage every 10 minutes (this value is not configurable). Upon waking up, it queries the ACTIVE\_SESSION table and gets all the users that are logged at that moment in the application. The agent then gathers all associated licenses for each user, and logs the information in the LICENSE\_METRIC table. If there are no active users at the time of the snapshot, then no entries will be recorded in the table. Below is a partial screen-shot of the table, showing the snap shot time, total user count, and the user count for each individual license.

LOGGED_TIME_SNAPSHOT	USERS	L_3001	L_3002	L_3003	L_3004	L_3006	L_3007	L_3010	L_3012	L_3013	L_3017	L_3018	L_3020	L_3021
125 09/30/2015 18:58	1	0	6	0	6	5	0	6	0	0	1	0	0	1
126 09/30/2015 18:48	1	0	7	0	7	6	0	7	0	0	1	0	0	1
127 09/30/2015 18:38	1	0	7	0	7	6	0	7	0	0	1	0	0	1
128 09/30/2015 18:28	1	0	7	0	7	6	0	7	0	0	1	0	0	1
129 09/30/2015 18:18	1	0	10	0	10	9	0	10	0	0	1	0	0	1
130 09/30/2015 18:08	1	0	13	0	13	12	0	13	0	0	1	0	0	1
131 09/30/2015 17:58	1	0	15	0	14	14	0	15	0	0	1	0	0	1
132 09/30/2015 17:48	1	0	17	0	16	16	0	17	0	0	1	0	0	1
133 09/30/2015 17:38	1	0	16	0	15	15	0	16	0	0	2	0	0	1
134 09/30/2015 17:28	1	0	15	0	15	14	0	15	0	0	2	0	0	1
135 09/30/2015 17:18	1	0	19	0	19	18	0	19	0	0	2	0	0	2
136 09/30/2015 17:08	1	0	20	0	20	18	0	19	0	0	2	0	0	2
137 09/30/2015 16:58	1	0	22	0	22	20	0	21	0	0	1	0	0	2
138 09/30/2015 16:48	1	0	21	0	21	19	0	20	0	0	1	0	0	2
139 09/30/2015 16:38	1	0	22	0	22	20	0	21	0	0	1	0	0	2
140 09/30/2015 16:28	1	0	30	0	29	27	0	28	0	0	1	0	0	2
141 09/30/2015 16:18	1	0	29	0	28	25	0	26	0	0	1	0	0	2
142 09/30/2015 16:08	1	0	36	0	35	30	0	31	0	0	1	0	0	2

To summarize: Each row represents a time that the agent woke up, saw active users in the system, and recorded the total user count, as well as the total count of each license assigned to those users cumulatively.

For reference, refer to the link below for the license ID and name mappings:

[https://www.ibm.com/support/knowledgecenter/SSHEB3\\_3.7/pdfs\\_wiki/License\\_IDs\\_and\\_Names.pdf](https://www.ibm.com/support/knowledgecenter/SSHEB3_3.7/pdfs_wiki/License_IDs_and_Names.pdf)

### Reporting:

There are 6 reports created to capture the information of the user load and license usage in the system.

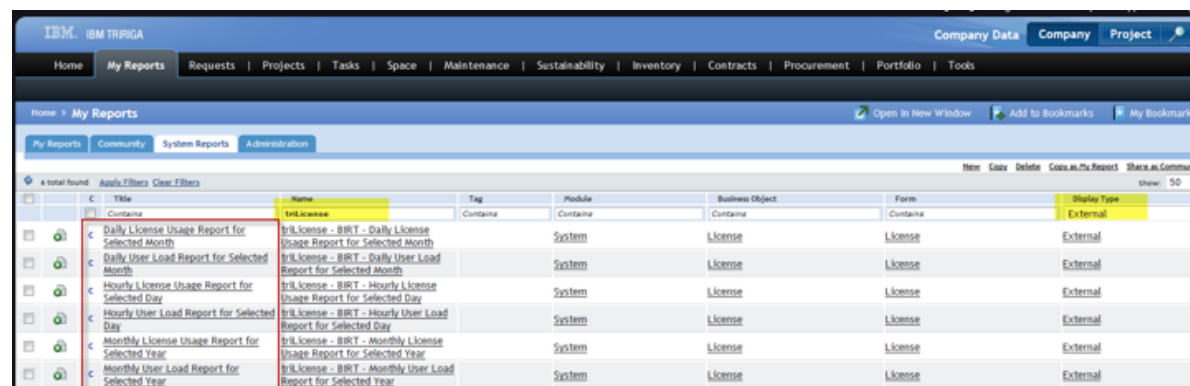
- Hourly License Usage Report for Selected Day
- Hourly User Load Report for Selected Day
- Daily License Usage Report for Selected Month
- Daily User Load Report for Selected Month
- Monthly License Usage Report for Selected Year
- Monthly User Load Report for Selected Year

The "**User Load Report**" gets the maximum number of users who log into the system over a period of time. (Hourly, Daily or Monthly)

The "**License Usage Report**" gets the maximum number of users who log into the system per license over a period of time. (Hourly, Daily or Monthly)

### To use the reports:

1. Import the "IBM\_TRIRIGA\_<Release #>\_License\_Usage\_Reports" Object Migration package into the environment by using the Object Migration function. OM packages are uploaded to attachment tab. Download the correct OM package related to the platform version you are currently on.
2. Go to Home -> My Reports -> Community/System Reports, search those reports by filtering the title, name and display type.

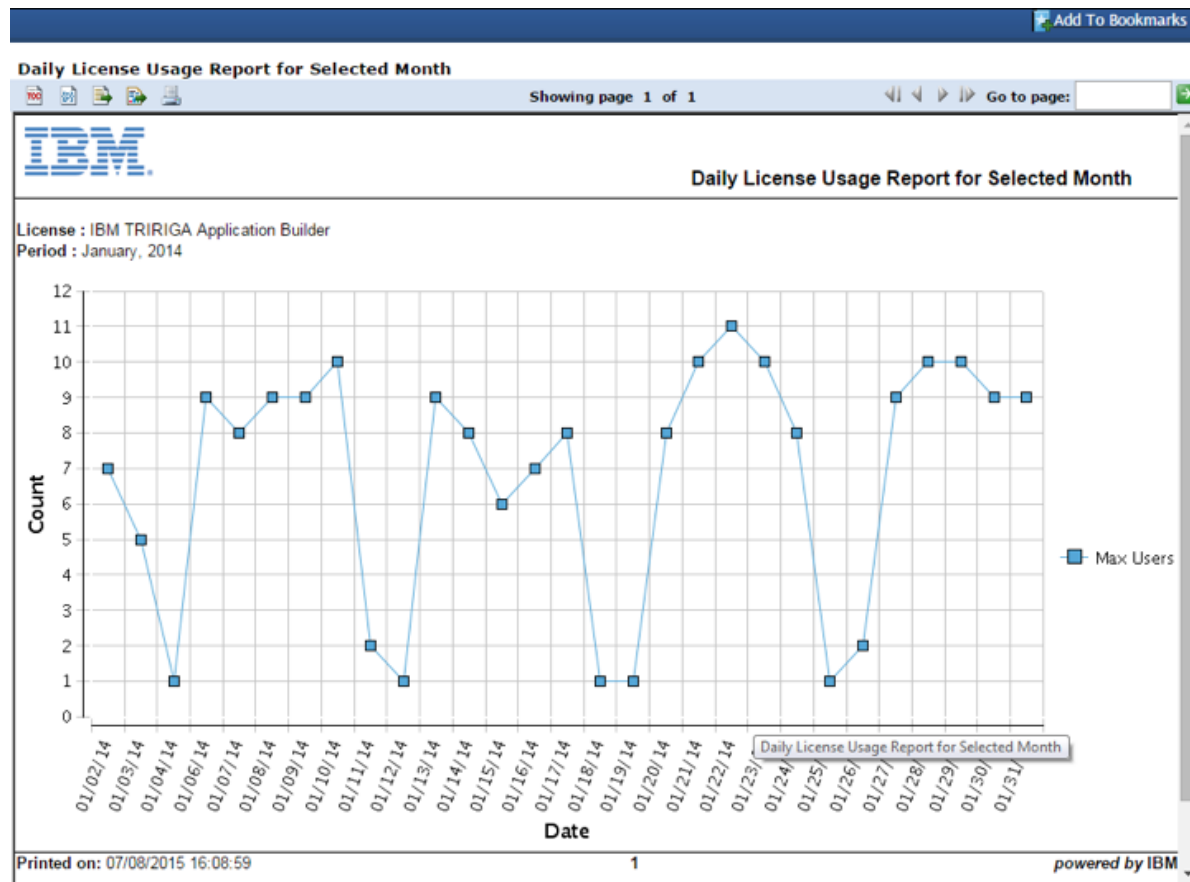
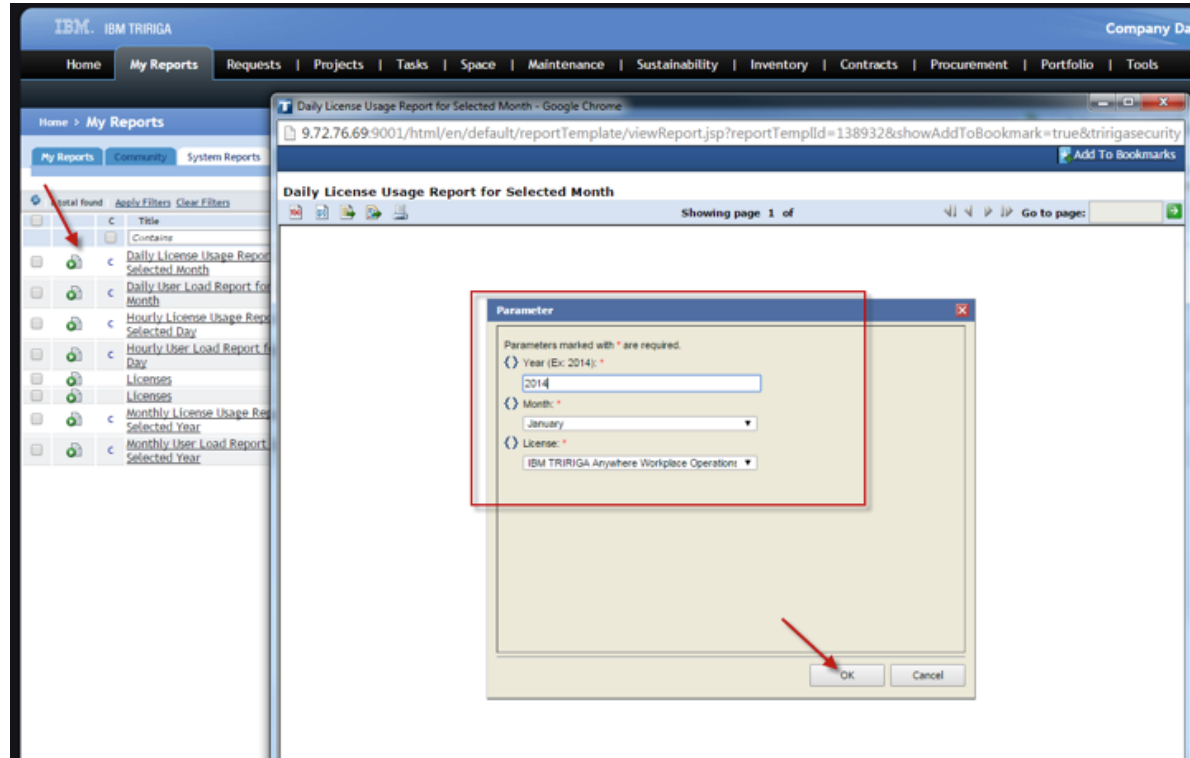


Icon	Title	Name	Tag	Module	Business Object	Form	Display Type
	Daily License Usage Report for Selected Month	trlicense - BRT - Daily License Usage Report for Selected Month	Contains	System	License	License	External
	Daily User Load Report for Selected Month	trlicense - BRT - Daily User Load Report for Selected Month	System	System	License	License	External
	Hourly License Usage Report for Selected Day	trlicense - BRT - Hourly License Usage Report for Selected Day	System	System	License	License	External
	Hourly User Load Report for Selected Day	trlicense - BRT - Hourly User Load Report for Selected Day	System	System	License	License	External
	Monthly License Usage Report for Selected Year	trlicense - BRT - Monthly License Usage Report for Selected Year	System	System	License	License	External
	Monthly User Load Report for Selected Year	trlicense - BRT - Monthly User Load Report for Selected Year	System	System	License	License	External

3. Click "Run report" icon, specify the required parameter in prompt window, then click "Ok" to see the result.

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Administrators or DBAs can also execute direct queries against the LICENSE\_METRIC table to get a report tailored to their specific needs.

For example: Executing a query to get the maximum total user count by day for the year, say 2015, then sql can be written similar to this (add each license type you're interested in):

```
select TO_CHAR(time_snapshot, 'MM-DD-YYYY') as "Date",
max(users) as "Users",
max(L_3001) as "L3001",
max(L_3002) as "L3002",
max(L_3003) as "L3003",
max(L_3004) as "L3004",
max(L_3006) as "L3006",
.....
.....
.....
.....
.....
from license_metric
where time_snapshot >= TO_DATE('01-01-2015', 'MM-DD-YYYY')
and time_snapshot <= TO_DATE('12-31-2015', 'MM-DD-YYYY')
group by TO_CHAR(time_snapshot, 'MM-DD-YYYY')
order by TO_CHAR(time_snapshot, 'MM-DD-YYYY');
```

Comments (0)	Versions (9)	Attachments (14)	About
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	<a href="#">IBM_TRIRIGA_3.5.2_License_Usage_Report.zip</a>	November 8, 2017	69 KB OM package for platform version 3.5.2
	<a href="#">IBM_TRIRIGA_3.5.3_License_Usage_Report.zip</a>	November 8, 2017	69 KB OM package for platform version 3.5.3
	<a href="#">IBM_TRIRIGA_3.6.0_License_Usage_Report.zip</a>	May 31, 2018	75 KB OM package for platform version 3.6.0
	<a href="#">IBM_TRIRIGA_3_4_1_License_Usage_Reports.zip</a>	March 16, 2016	63 KB OM package for platform version 3.4.1
	<a href="#">IBM_TRIRIGA_3_4_2_License_Usage_Reports.zip</a>	March 16, 2016	63 KB OM package for platform version 3.4.2
	<a href="#">IBM_TRIRIGA_3_5_License_Usage_Reports.zip</a>	March 16, 2016	63 KB OM package for platform version 3.5.0 & 3.5.1
	<a href="#">editor_image_08ce2201-255b-4421-8658-a746f74e2777.png</a>	March 15, 2016	112 KB
	<a href="#">editor_image_09d091cb-40dd-460d-8d49-8808ced20248.png</a>	March 15, 2016	17 KB
	<a href="#">editor_image_0d5bd882-da4d-482f-892c-17d4002473b8.png</a>	March 15, 2016	125 KB
	<a href="#">editor_image_1058d8a2-70fa-4571-8654-91b8d7fac7e3.png</a>	March 15, 2016	72 KB
	<a href="#">editor_image_96a0e766-da3f-4520-8c1e-339478ea78d0.png</a>	March 15, 2016	36 KB
	<a href="#">editor_image_b81fd8b9-3149-4016-8a01-13fe972f68bd.png</a>	March 15, 2016	104 KB

 editor_image_cde3c617-4270-46ea-818d-c2906e144272.png	March 15, 2016	17 KB
 editor_image_ffc5617-de7c-48eb-8bb0-333536d0d08d.png	March 15, 2016	6 KB

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