

Engineering License Analysis and Simulation with Usage Metering

for



Engineering Analysis & Simulation in the Automotive Industry

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Open iT Value Proposition – Key Business Drivers

Understand True License Usage

• Report true usage by user, department, application, feature

Proactive Alerts

• Don't just meter historical usage, manage through alerts

Attain a Better Negotiating Position

• Achieve better SLA by having a centralized licensing process

Optimize License Usage

• Ability to harvest inactive licenses

Reduce Costs

Only pay for licenses you are using to maximize ROI





"47% annual reduction on software maintenance costs"



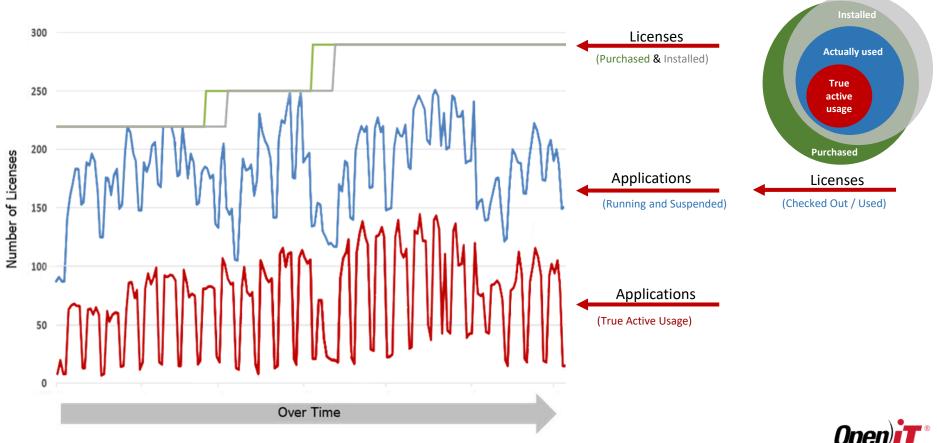
"\$1.35M in documented first year savings"



"10% cost reduction on overall software licenses"



What's Really Going on with my Licenses?



What's Really Going on with my Licenses?

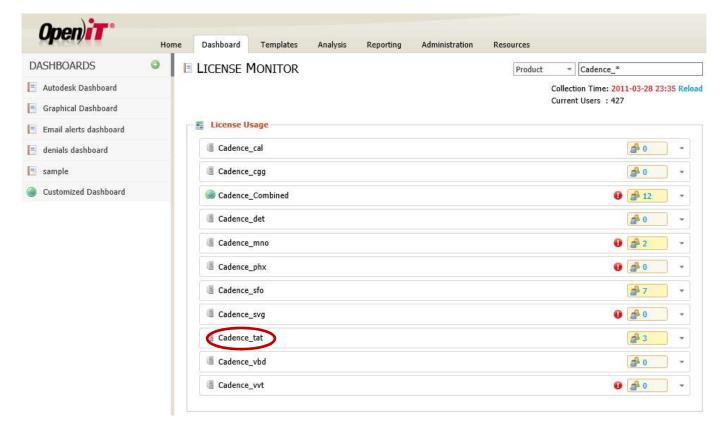
Concurrent License Savings Compare the difference between:

- Max total concurrent (250)
- Max active concurrent (140)

In this case a difference of 150 licenses or 150* \$30,000 = \$4,500,000

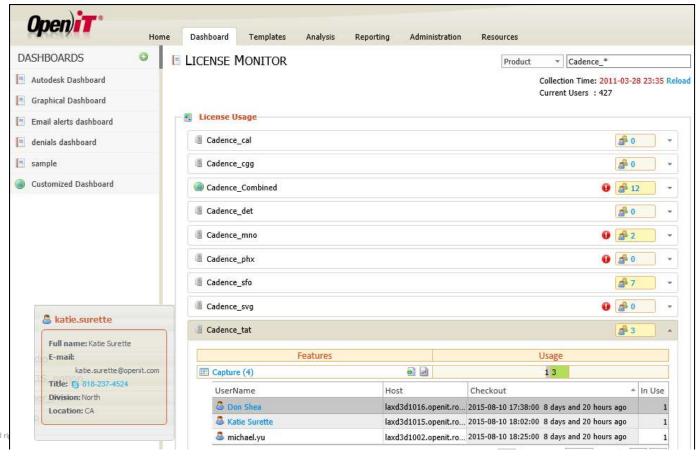


Real-time License Usage



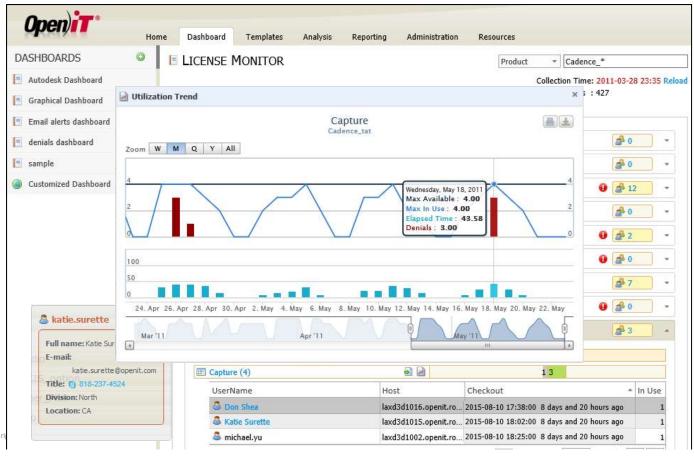


Real-time License Usage



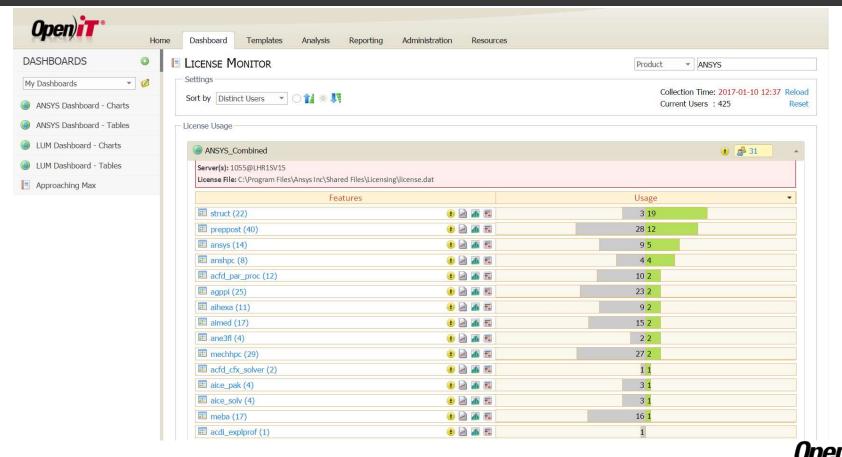


Real-time License Usage

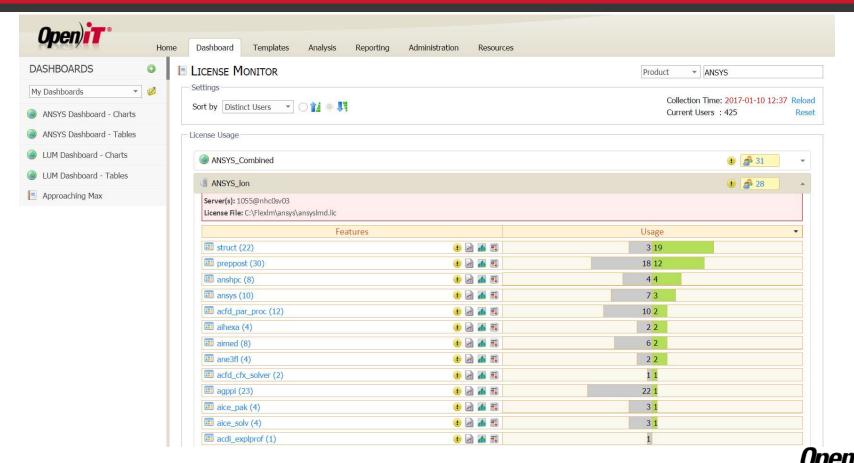




Global View - detail



View Usage at Individual License Server



License Campers

UserName	Host	Checkout	In Use
♣ sgo072	WS6400227	2016-12-06 23:28:00 3 months and 14 days ago	1
♣ sma136	WS6400251	2016-12-14 23:04:00 3 months and 6 days ago	1
& cbu025	WS6400024	2016-12-15 18:21:00 3 months and 5 days ago	1
& rdw015	WS6400220	2016-12-15 18:32:00 3 months and 5 days ago	1
♣ nco041	WS6400206	2016-12-15 21:17:00 3 months and 5 days ago	1
& rin009	WS6400225	2016-12-19 14:48:00 3 months and 1 day ago	1
& sgo072	WS6400245	2016-12-19 15:15:00 3 months and 1 day ago	1
♣ jpe191	WS6400199	2016-12-19 16:01:00 3 months and 1 day ago	1
dch081	WS6400219	2016-12-19 16:24:00 3 months and 1 day ago	1
♣ rev008	WS6400216	2016-12-19 16:42:00 3 months and 1 day ago	1



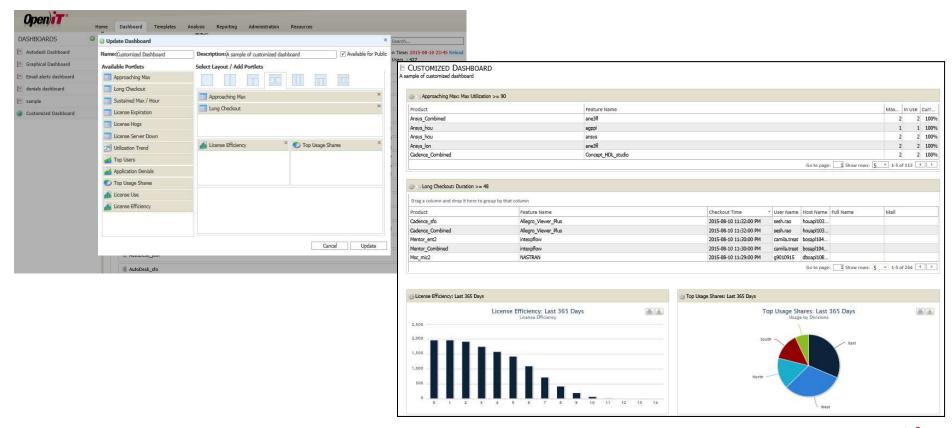
License Hogs

Report of Users more than 1 license of a feature at the same time

Time	Product	Application Name	User Id	Max Used	Elapsed Time
2017-Jan	AUTODESK_Global	85795PDSP_2015_0F	Kirsten.Torres	2	228.00 h
		85871ACD_2016_0F	Shirley.Jordan	3	290.17 h
		85995PDSPRM_2016_0F	Clifford.Padilla	2	143.33 h
2017-Feb	AUTODESK_Global	85795PDSP_2015_0F	Marjorie.Miller	2	305.67 h
		85871ACD_2016_0F	Natalie.Ford	2	210.58 h
			Shirley.Jordan	2	110.08 h
		Autodesk Product Design Suite Standard [85813PDSS_F]	Penny. Galan	2	5.25 h
		Autodesk Product Design Suite Standard 2015 [85794PDSS 2015 0F	Penny. Galan	2	5.25 h
2017-Mar	AUTODESK_Global	85795PDSP_2015_0F	Kirsten.Torres	2	331.79 h
			William.Porter	2	64.88 h
		85871ACD_2016_0F	Betsy.Wooten	2	470.08 h
			Natalie.Ford	2	139.67 h
			Rose.Myers	3	155.83 Ի
		AutoCAD Mechanical 2011 [54900AMECH PP 2011 0F	Thomas.Lowe	2	405.25 h

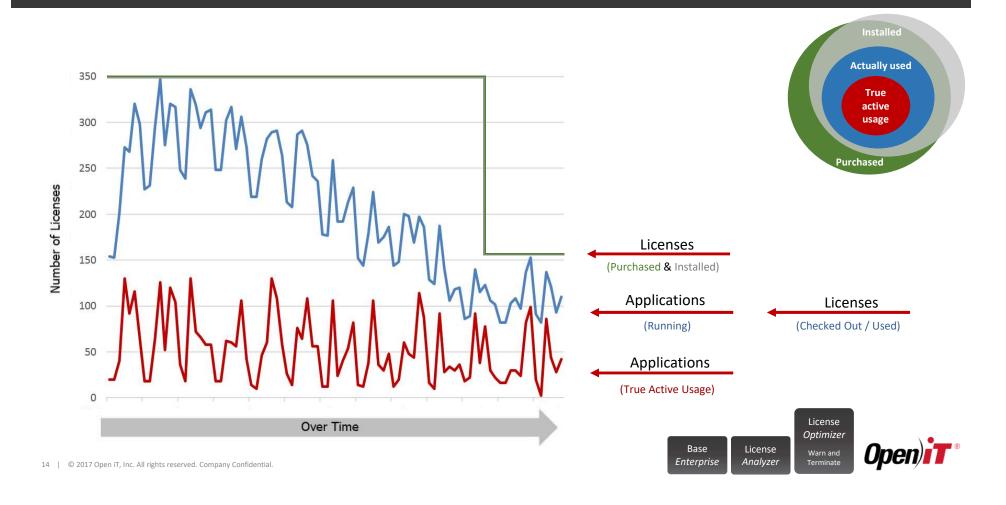


Configurable Dashboards & Alerts



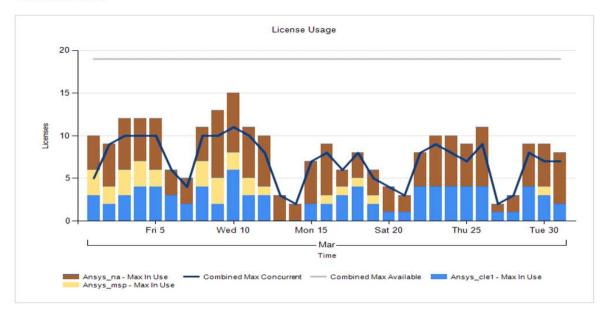


Optimize: Warn and reduce inactive sessions!



Compare WAN vs. LAN Agreements

Usage Report for Application Name (Feature) ansys Daemon (Server): All

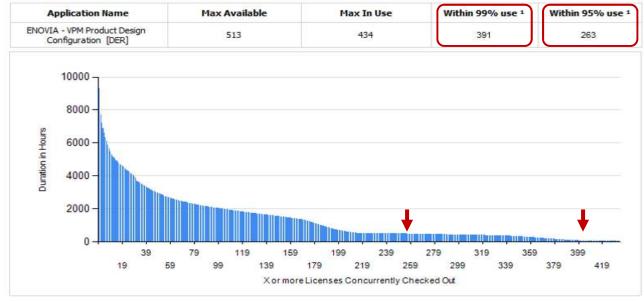


Report generated on: 6/2/2011 1:27:02 PM All Rights Reserved. Powered by OpeniT.



License Efficiency with Percentiles

License Efficiency Chart



Actually used

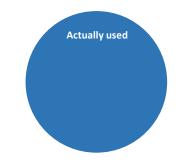
Minimum # of Licenses 2	Duration in Hours	Duration in % of Total
434	0.17	0.00 %
432	0.42	0.00 %
431	0.92	0.01 %
430	1.50	0.02 %
429	2.58	0.03 %
428	2.83	0.03 %



License Efficiency with Percentiles

License Efficiency Chart





800 –						
600 – g						
Duration in Hours						
ā 200−					\	+
0 —		5		10		
		X or more Lic	enses Concurrenti	y Checked Out		

Licenses	Duration in Hours	Duration in % of Total
14	3.75	0.52 %
13	10.33	1.44 %
12	25.83	3.59 %
11	53.92	7.49 %



New Reports - True vs False Denials (or Ultimate Denial!)

10.00

Events

	Event type	denied	false-denial	false-denial-local	
Product	Feature	Events	Events	Events	
110	AutoCAD P&ID 2009 [60500PNID_2009_0F]	571.00	95.00	8.00	
adskflex-amsterdam	AutoCAD P&ID Package [67700PNID_F]	571.00	95.00	8.00	
	AutoCAD Civil 3D 2008 [55400CIV3D_2008_0F]		102.00		
a dalahan a da satata	AutoCAD P&ID 2009 [60500PNID_2009_0F]	218.00	4,966.00	211.00	
adskflex-cyberjaja	Autodesk Civil 3D Package [64900CIV3D_F]		102.00		
	AutoCAD P&ID Package [67700PNID_F]	218.00	4,966.00	211.00	
	AutoCAD 2009 [57600ACD_2009_0F]	1,984.00		2.00	
	AutoCAD P&ID 2009 [60500PNID_2009_0F]	184.00	91.00	8.00	
adskflex-houston	AutoCAD Package [64300ACD_F]	1,984.00		2.00	
	Autodesk NavisWorks Review Package [67400NAVREV_F]	47.00			
	AutoCAD P&ID Package [67700PNID F]	184.00	91.00	8.00	

Details

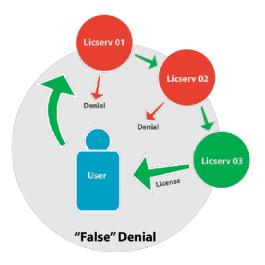
Case 2 - Where actually checke

adskflex-port_harcourt

Location: 0 Generated at: 2 Query period: 2

Licensed number of users already reached. (-4,342) 35,582.00 16,109.00 Licensed number of users already reached. (-4,342_10054 "") All licenses are reserved for others. (-101,396) 9,221.00 6.036.00 Licensed number of users already reached (-4,342) 1,725.00 1,575.00 All named licenses are in use. 798.00 License server does not support this feature (-18,328) 679.00 Licensed number of users already reached. (-4,342_131 "Connection reset by peer") 448.00 Users are queued for this feature. (-24,332) 255.00 2 licenses 196.00 84.00 Clock difference too large between client and server (-34,336) User/host not on INCLUDE list for feature. (-39,349) 57.00 33.00 All licenses are reserved for others. (-101,396_131 "Connection reset by peer") User/host not on INCLUDE list for feature. (-39,349_10054 "") 26.00 Users are queued for this feature. (-24,332_131 "Connection reset by peer") Licensed number of users already reached. (-4,342_10053 "") 3.00 2.00 14 licenses 2.00 A "false" denial occurs when a user is denied a license at the first request, but then receives a license from another independent license server.

In the figure to the left, you will have two false denials and null true.



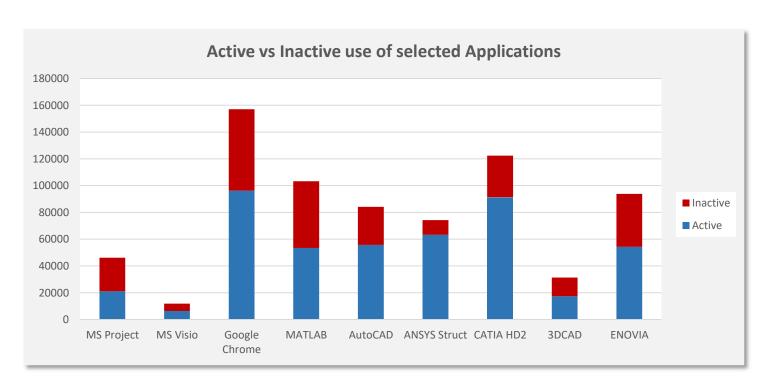
10.00 Licsery 01 Licsery 02 Denial Licserv 03 "True" Denial

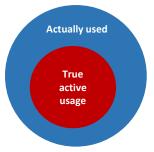
A "true" denial occurs when a user is denied a license from every license server that the user tries to draw licenses from.

You can even see why the license has been denied.



Perceived Use vs. Actual Use

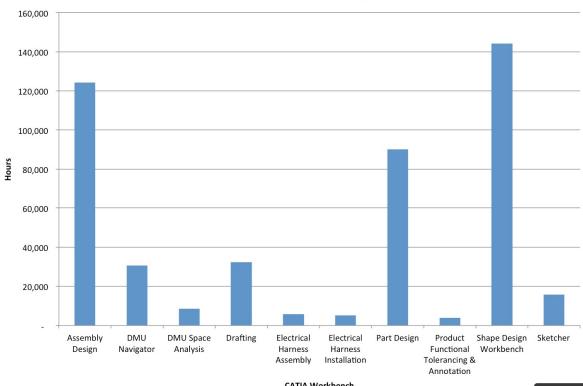






Catia Module Use

CATIA Workbench Usage



CATIA Workbench





Utilizing Open iT's desktop client

Time	Product	Product id	Feature	Serial number	Release number	License type	Domain	Host	Operating system	Count							
			AutoCAD 2012 - English	393-91959822	18.2.51.0	Network	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
			**************************************	000-00000000	R17	Free Trial	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
	A001	A001	AutoCAD LT 2012 - English	392-02047480	R17	Stand-alone	HOU_EP	HOUW120048	windows_7_x64_sp1	1.00							
2015/10/08			Autodesk Navisworks Freedom 2014	000-00000000	R9	Free Trial	HOU_EP	HOUW120048	windows_7_x64_sp1	1.00							
			Autodesk Navisworks Freedom 2015	000-00000000	R9	Free Trial	HOU_EP	HOUW110159	windows_7_x64_sp1	1,00							
	B001	B001	AutoCAD 2013 - English	393-51195769	19.0.55.0	Network	HOU_EP	HOUW120048	windows_7_x64_sp1	1.00							
	F001	F001	AutoCAD 2016 - English	396-29055932	20.1.49.0	Stand-alone	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
		001 A001	AutoCAD 2012 - English	393-91959822	18.2.51.0	Network	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
			1 A001							AutoCADIT 2012 Factor	000-00000000	R17	Free Trial	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00
	A001			AutoCAD LT 2012 - English	392-02047480	R17	Stand-alone	HOU_EP	HOUW120048	windows_7_x64_sp1	1.00						
2015/10/09			Autodesk Navisworks Freedom 2014	000-00000000	R9	Free Trial	HOU_EP	HOUW120048	windows_7_x64_sp1	1.00							
			Autodesk Navisworks Freedom 2015	000-00000000	R9	Free Trial	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
	B001	B001	AutoCAD 2013 - English	393-51195769	19.0.55.0	Network	HOU_EP	HOUW120048	windows_7_x64_sp1	1.00							
	F001	F001	AutoCAD 2016 - English	396-29055932	20.1.49.0	Stand-alone	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
			AutoCAD 2012 - English	393-91959822	18.2.51.0	Network	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
2045/40/40	A001	A001	AutoCAD LT 2012 - English	000-00000000	R17	Free Trial	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
2015/10/10			Autodesk Navisworks Freedom 2015	000-00000000	R9	Free Trial	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							
	F001	F001	AutoCAD 2016 - English	396-29055932	20.1.49.0	Stand-alone	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00							

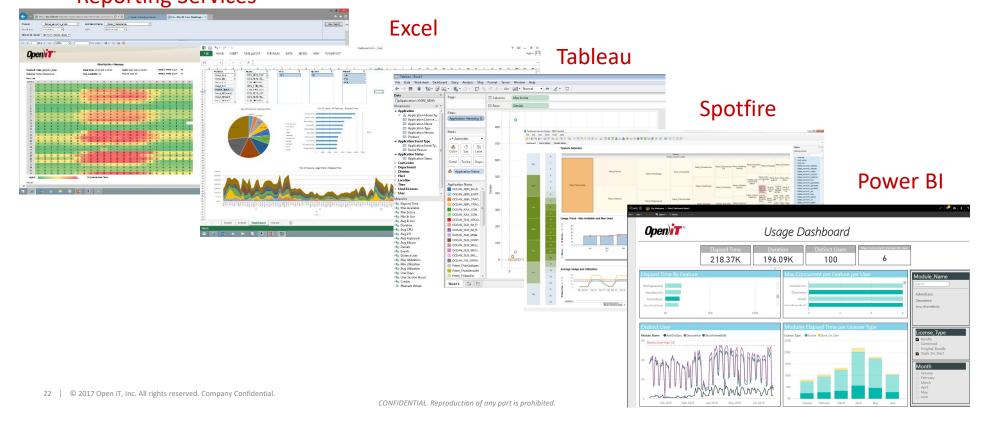
	F001	F001	AutoCAD 2016 - English	396-29055932	20.1.49.0	Stand-alone	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00
	A001		AutoCAD 2012 - English	393-91959822	18.2.51.0	Network	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00
		A001 A001	AutoCAD LT 2012 - English	000-00000000	R17	Free Trial	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00
			A001 A001	AUTOCAD ET 2012 - English	392-02047480	R17	Stand-alone	HOU_EP	HOUW120048	windows_7_x64_sp1
2015/10/11				Autodesk Navisworks Freedom 2014	000-00000000	R9	Free Trial	HOU_EP	HOUW120048	windows_7_x64_sp1
			Autodesk Navisworks Freedom 2015	000-00000000	R9	Free Trial	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00
	B001	B001	AutoCAD 2013 - English	393-51195769	19.0.55.0	Network	HOU_EP	HOUW120048	windows_7_x64_sp1	1.00
	F001	F001	AutoCAD 2016 - English	396-29055932	20.1.49.0	Stand-alone	HOU_EP	HOUW110159	windows_7_x64_sp1	1.00

System Application Analyzer Tracker

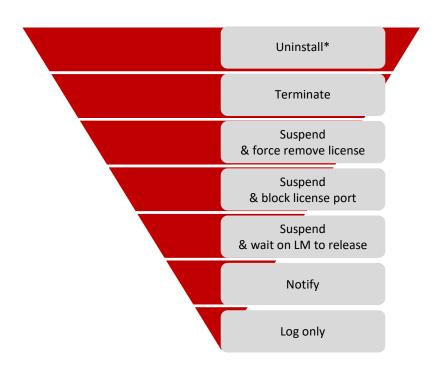


Integration with Popular BI Tools

 Open iT Data back-end integrates with a wide variety of BI Reporting Tools Reporting Services



LicenseOptimizer extends its methods of actions



* - There is no automatic uninstall in Open iT, just a report. Open iT recommends that using the same tool for uninstalling that is used for installing (e.g. SCCM).

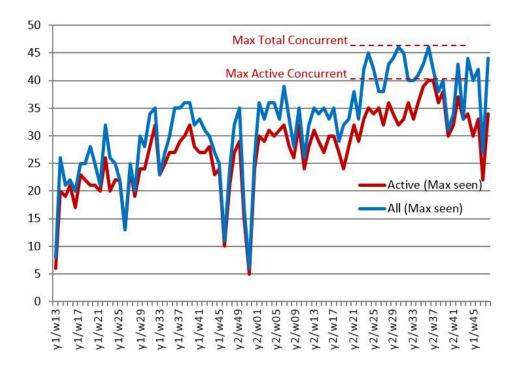
Inactive licenses are automatically detected

- Application usage will be logged
- End-user notification of inactivity
- Action taken is the least disruptive way for the end user while still invalidating requirement to have a license.
- Methods, thresholds and trigger points are set individually for each application



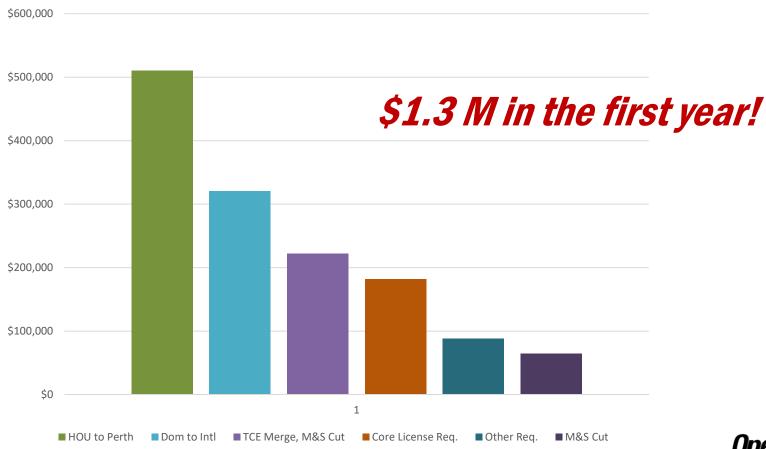
Oil Company, Houston: Hard Dollar Savings

- Estimated Concurrent License Savings:
 6 x \$135,000=\$810,000
- Alternative benefits:
 Saves End-User time not having to close/open sessions





CASE STUDY Results- Software License and M&S Savings









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Thank you

Stop by our table in the Exhibition Area for more information.



