FlexNet Manager® for Engineering Applications

Improve engineering and design professionals' productivity and minimize software spend with unprecedented insight into application usage trends

Benefits to Your Organization:

- Optimize spending on expensive technical applications

- Report usage data for better forecasting and vendor negotiation

- Simplify and centralize license server administration

- Efficiently share licenses across the enterprise

- Improve engineering and design professionals' productivity

Engineering, technical and industrial applications – including Electronic Design Automation (EDA), Geographic Information Systems (GIS), Exploration & Production (E&P) and Product Lifecycle Management (PLM) – are expensive and are used by highly skilled and highly paid engineering and design professionals.

These applications – used by manufacturing, engineering, energy, and technology companies – typically use concurrent licensing methods in which a fixed number of licenses for a software application are shared among a larger number of users.

Concurrently licensed software uses a license server that dynamically allocates a software license, if available, when a user starts the application. Concurrent licensing tools, including Flexera's FlexNet Publisher® (*formerly FlexLM®*), IBM® LUM, Reprise LM, Sentinel LM, and Dassault DSLS "check out" a license when the software is used on any given machine. When a user stops using the concurrently licensed software, the license is "checked-in" to be reused. License servers meter the number of simultaneous software users and will deny access to additional users when all the licenses are in use.

Concurrent licensing, when used properly, can reduce software expenditures, as an enterprise only needs to pay for the amount of users they expect at any one time, and not for every user that may access the software. But concurrent licensing, when not managed properly, carries with it significant risks and challenges:

- **Lost productivity** – not having an available concurrent software license when needed—a "denial of service", will result in costly downtime and loss of productivity for engineering and design professional staff, which could lead to project delays

- **High administrative overhead** - The use of multiple engineering technical and industrial applications and geographically distributed teams often requires the administration of several license servers, which can consume significant time and effort if the right license management tools are not in place

- **Unnecessary spending** - The purchase of more software licenses than needed to avoid denials of service to skilled personnel

- **Budgeting challenges** - No ability to forecast an appropriate number of licenses to be purchased at contract renewal

- **Lack of decision support information** - The difficulty in tracking and reporting on actual software license usage across multiple licensing systems, license agreements, teams and geographic locations
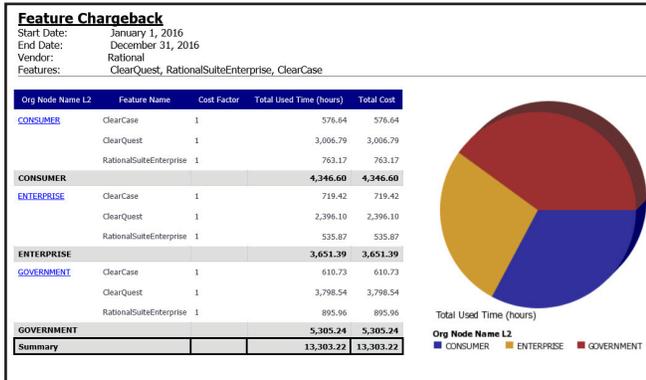
FlexNet Manager for Engineering Applications

FlexNet Manager for Engineering Applications helps improve engineering and design professionals' productivity, optimize software spend, accurately forecast future software needs, and negotiate vendor contracts. An important aspect of managing some concurrent software contracts is having the ability to "remix" the software available under that agreement at different times throughout the design cycle.

FlexNet Manager for Engineering Applications tracks license usage, simplifies and centralizes license server administration for thousands of FlexEnabled® (FlexNet Publisher, FlexLM) and other concurrently licensed applications, including AutoCAD®, MATLAB®, IBM® Rational®, CATIA®, and Petrel, to name only a few, to automatically report on software usage and license denials, and maximize utilization of assets.

FLEXERA

Optimize Software Spending

FlexNet Manager for Engineering Applications allows organizations to track and report on actual software license usage for FlexEnabled applications, DSLS/LUM applications, and other third party licensing systems such as Sentinel LM, and Reprise LM.

Feature Chargeback

Start Date:	January 1, 2016			
End Date:	December 31, 2016			
Vendor:	Rational			
Features:	ClearQuest, RationalSuiteEnterprise, ClearCase			

Org Node Name L2	Feature Name	Cost Factor	Total Used Time (hours)	Total Cost
CONSUMER	ClearCase	1	576.64	576.64
	ClearQuest	1	3,006.79	3,006.79
	RationalSuiteEnterprise	1	763.17	763.17
CONSUMER			**4,346.60**	**4,346.60**
ENTERPRISE	ClearCase	1	719.42	719.42
	ClearQuest	1	2,396.10	2,396.10
	RationalSuiteEnterprise	1	535.87	535.87
ENTERPRISE			**3,651.39**	**3,651.39**
GOVERNMENT	ClearCase	1	610.73	610.73
	ClearQuest	1	3,798.54	3,798.54
	RationalSuiteEnterprise	1	895.96	895.96
GOVERNMENT			**5,305.24**	**5,305.24**
Summary			**13,303.22**	**13,303.22**

Total Used Time (hours)
Org Node Name L2
■ CONSUMER ■ ENTERPRISE ■ GOVERNMENT

Too often, other tools and methods provide reports that are limited to specific license server vendors. In addition, they lack an overall view across the enterprise, offer little insight into comprehensive usage trends, and do not link usage to contracts, organizational structure or costs. In order to make licensing decisions, organizations are left with countless time-consuming, manual steps.

With the usage reports provided by FlexNet Manager for Engineering Applications, organizations now have a complete understanding of their actual licensing needs, and can save money by making accurate software purchasing decisions. They can further optimize spending by identifying underutilized licenses that can be reallocated to other departments and by determining which annual support plans no longer need to be renewed.

FlexNet Manager for Engineering Applications also includes the Software Investment Planner, a powerful planning tool that enables the enterprise to get detailed insight into software usage and denial trends as they relate to contractual license terms, costs and organizational structure. With greater insight into software usage trends, procurement and finance teams can also better plan and budget for future purchases.

FlexNet Manager for Engineering Applications allows organizations to:

- More accurately plan and budget for future software needs
- Identify the most efficient way to distribute licenses across the organization
- Determine the proper number of licenses needed on an ongoing basis
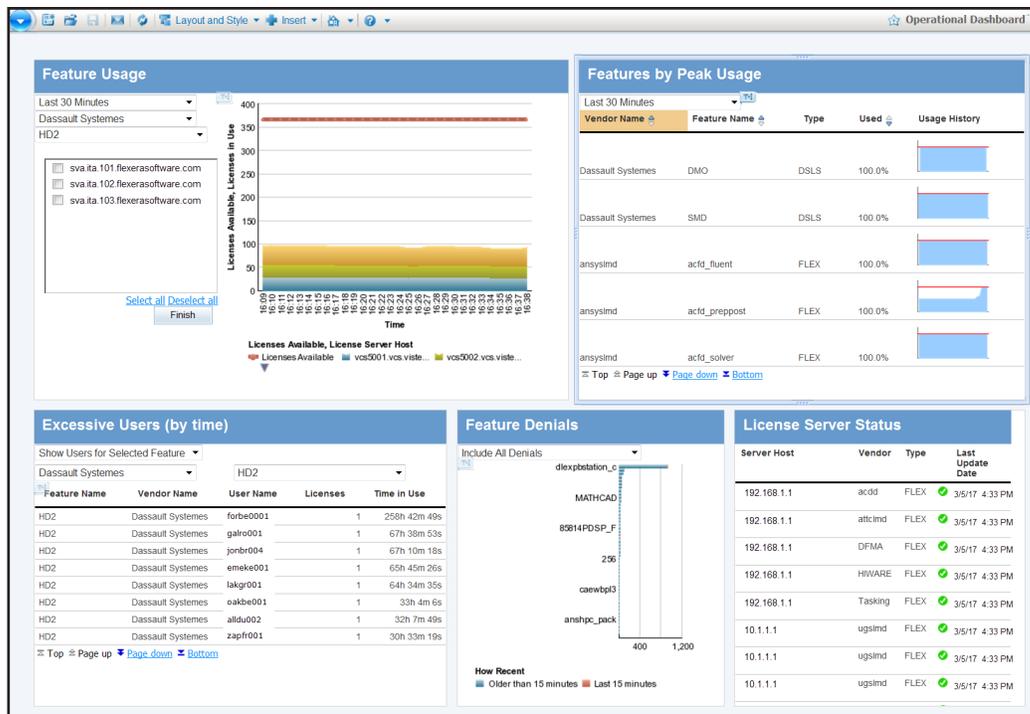- Accurately chargeback costs to the business based on real usage data

Figure 2: FlexNet Manager for Engineering Applications Operational Dashboard

Product Peak Usage Summary

(Show/hide) Report Settings

Product name	Available	Peak	Count of peak	Average peak	Denials	Unique users	Hours of Usage
AutoCAD® Mechanical 2011		2	1	1		4	24.82
AutoCAD® Mechanical 2012		5	1	2	24	13	300.11
AutoCAD® Mechanical 2013		18	1	11	107	93	1,209.81
AutoCAD® Mechanical 2014		23	2	18	160	123	2,371.71
AutoCAD® Mechanical 2015		16	2	12	237	124	1,273.09
AutoCAD® Mechanical 2016		9	2	6	18	33	705.57

Centralized Enterprise Reporting and Advanced Analytics

Due to the number of license server technologies on the market, companies that use engineering software often must spend an enormous amount of time and effort to understand how their expensive applications are being used. Without a consistent enterprise view, these companies may see only the individual application usage, without an organizational view that provides business insights.

FlexNet Manager for Engineering Applications enables enterprises to leverage data from Dassault DSLS, Sentinel LM, Reprise LM, and other 3rd party license server technologies to provide a comprehensive enterprise-wide view of engineering and technical application usage.

Enterprise License Compliance View

In a single dashboard, managers can see software usage by business unit or user, regardless of what technology manages the underlying software licenses. This enables organizations to do consolidated planning for enterprise-wide software licensing needs, and to better prepare for vendor negotiation.

Advanced Analytics

FlexNet Manager for Engineering Applications goes beyond basic reporting with a comprehensive, multi-dimensional analytics engine. Log files from FlexNet Publisher and third-party license servers are imported and combined with organizational structures to generate business level views of an organizations' software usage.

With this insight, managers can review past usage trend data to optimize future use of company resources, by improving scheduling of engineering activities with software availability.

The information is available using built-in reports, which support ad-hoc viewing, email delivery and scheduled posting to internal portals, allowing users the flexibility to review data when appropriate. Users can also create their own, custom reports to better meet specific needs.

Flexera enables an enterprise to:

- Make fact-based software purchasing decisions
- Determine the right mix of software to have on-hand at any given time during the design cycle

- Avoid costly and resource intensive software audits
- Analyze spend per business unit
- Plan for M&A activity
- Track specialized contracts per license server and organizational structure

Global License Server Management

FlexNet Manager for Engineering Applications enables centralized management and reporting of license servers. With a single console view, one administrator can manage licenses and license servers across the enterprise. This reduces overhead and helps free up resources for more important tasks.

Administrators can more easily manage over 20,000 applications that utilize FlexNet licensing technology (*FlexNet Publisher, FlexLM*). In addition, organizations that rely on CATIA, ENOVIA SmarTeam, or other Dassault or IBM LUM enabled applications can use FlexNet Manager for Engineering Applications to report on and optimize these licenses as well – all with a single interface and workflow. This provides the ability to capture license information from DSLS or LUM servers, monitor status of these servers and schedule regular log file imports to feed into the FlexNet Manager for Engineering Applications reporting system.

Administrators can see current license usage and availability, in real time, so they can quickly resolve issues before they impact end users. And they also see the current state of license servers across the organization, including the near real-time status of servers and vendor daemons, the most heavily used application features, the most active vendor daemons, and more.

License Server Status

Server Host	Vendor	Type		Last Update Date
192.168.1.1	acdd	FLEX	✓	3/5/17 4:33 PM
192.168.1.1	attclmd	FLEX	✓	3/5/17 4:33 PM
192.168.1.1	DFMA	FLEX	✓	3/5/17 4:33 PM
192.168.1.1	HIWARE	FLEX	✓	3/5/17 4:33 PM
192.168.1.1	Tasking	FLEX	✓	3/5/17 4:33 PM
10.1.1.1	ugslmd	FLEX	✓	3/5/17 4:33 PM
10.1.1.1	ugslmd	FLEX	✓	3/5/17 4:33 PM
10.1.1.1	ugslmd	FLEX	✓	3/5/17 4:33 PM

Figure 4: License Server Status Report

License Request Daily Denials

Date Range : 1 Year
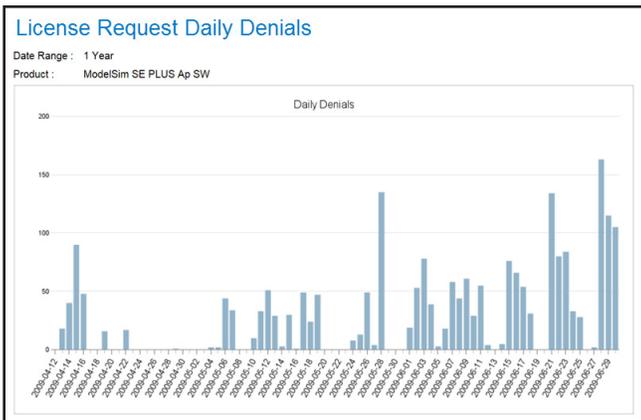Product : ModelSim SE PLUS Ap SW

Figure 5: License Request Denial Report

Global license server management enables organizations to:

- Become more efficient through sharing licenses across the enterprise

- Reduce administrative overhead with automated license management tasks

- Become more proactive, with global alerts of potential licensing problems for faster response

- Efficiently perform license server administration in real time

Improve Productivity

Engineers and design professionals are highly skilled and highly paid, so any idle time for them can be costly. When a company does not have an available software license at the time an engineer needs access, a company does not just face the loss of productivity. Far more costly can be the impact to a project deadline which could hurt the enterprise's finances and reputation.

Organizations have the ability to:

- See when a user is being denied access to a licensed feature to aid faster resolution and get the engineer back to work

- Understand what features are used the most or least to better allocate licenses

- View continuous license server status, so downtime issues can be corrected faster

Intelligent Solutions for Managing Enterprise Software

FlexNet Manger for Engineering Applications is part of **FlexNet Manager Suite for Enterprises**, a comprehensive, proven, next generation hardware asset management, software asset management, license compliance and software license optimization solution. The Suite provides entitlement based license management and software license optimization to enable organizations to reduce ongoing software licensing costs and maintain continuous license compliance. It is used by thousands of enterprises to gain control of and optimize software spend while reducing the time and effort required to manage the software estate.

About Flexera

Flexera is reimagining the way software is bought, sold, managed and secured. We view the software industry as a supply chain, and make the business of buying and selling software and technology asset data more profitable, secure, and effective. Our Monetization and Security solutions help software sellers transform their business models, grow recurring revenues and minimize open source risk. Our Vulnerability and Software Asset Management (SAM) solutions strip waste and unpredictability out of procuring software, helping companies buy only the software and cloud services they need, manage what they have, and reduce compliance and security risk. Powering these solutions and the entire software supply chain, Flexera has built the world's largest and most comprehensive repository of market intelligence on technology assets. In business for 30+ years, our 1200+ employees are passionate about helping our 80,000+ customers generate millions in ROI every year.
Visit us at **www.flexera.com**

Next Steps:

Visit **www.flexera.com/fnmea** for more information, or **contact a Flexera representative**.

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