# **Increase ROI of your E&P Applications with Software Metering**

by Signe Marie Stenseth, VP, Open iT



Signe Marie Stenseth Vice President Open iT, Inc.

cations are used and allow managers to quick- enterprise software. ly and easily analyse true needs, thus helping

companies real dollars while creating a com- money, are used efficiently. petitive edge. Whether you're managing oil increasing your ROI.

ized monitoring, companies can effectively essential concept for software asset optimizaevaluate the utilization of their IT assets, plan tion. The first step in software optimization is their future software purchases while optimiz- to collect the usage. ing not just licenses but also their IT budget, and drive business to renewed growth.

### Introduction

As technology continue to advance, and with scenario that is happening in an organization technology now becoming the engine of busi- that is not monitoring their software usage. ness operations, organizations find it crucial Below shows actual data from an engineering to keep investing in enterprise software in company showing how much licenses they

order to survive the competition in the market. The documented best way to reduce spending Even with the current situation of the global and achieve optimization of your expensive economy signalling a continuation of global licenses is through software asset manage- downturn, causing firms to scale down on IT ment metering tools. These usage metering spending, studies shows that we will not antictools measure how much and how often appli- ipate any slowdown in the spending levels on

companies to make intelligent decisions to According to Gartner, the enterprise software keep software costs down and prevent them market will continue to grow by 7.2% in 2017 from paying fines for breaching license terms. globally. With this trend, business and IT Some usage metering tools also go further by managers are facing the challenge of increasnot only providing historical data but by simu- ing the value of their current software investlating various types of agreements and scenar- ments – especially for technical E&P software ios to help managers make more informed applications. There is a need for innovative ways to optimize software assets that will make sure that the business will continue to Business and IT Managers are applying usage have the tools and services they need – while data to optimize their resources and save their ensuring that resources, such as time and

and gas applications, usage metering allows An effective measure to address this challenge you to provide the right software to the right is to implement software usage metering soluperson at the right time thereby optimizing tions. There is a saying that goes "You can't your costs, improving usage efficiencies and optimize what you can't measure" - while this is highly debatable in other practices such as HR and Management, this saying is particu-With accurate usage data analysis and central- larly accurate, and undoubtedly, the most

### The Context

To comprehend the importance of software metering, below is a graph showing a typical

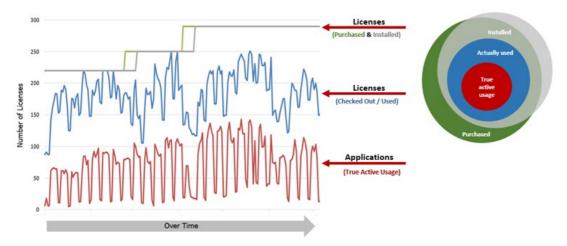


Figure 1. Licenses Owned vs Licenses Checked Out vs True Active Usage

## Page 39

## **SPE Norway—Digital Environments**

and how much is being utilized over a period justification process for new investments.

Let's focus first on the green and gray line at Useful information for optimization is derived Step 1: Capture Usage 360 solution, IT purchased additional 30 licenses tions. the following month. However, even with sion truly made?

Without a software metering tool, the typical real story?

Again, "quantify to justify". The key to soft- already know from before.

### 3. Software Metering Solutions

the top which represents the purchased and from various data sources, different metrics, installed licenses. The line shows that the and a thorough analysis of historical usage. The first step is to capture all of the usage of company started with 220 purchased licenses Additionally, monitoring usage from the log your applications - whether it be local, serverfor the application. In the first few months, IT files and license manager utilities alone can be based, web-based and applications on Citrix department started receiving phone calls from tedious - taking a lot of time and staff re- or terminal servers - and consolidate usage end users reporting that they were encounter- sources, and conclusions based on these tools data in one central storage. A simple software ing denials when checking out licenses. As a can be error-prone owing to incorrect assump- inventory or discovery tool provides only a

chased additional 40 licenses. IT's goal was to ings within the first six months. Market re-used. prevent the phone from ringing with user search supports implementing software usage complaints and prevent business managers metering tools and the studies show that these An effective tool will be able to provide this, implementing software optimization practic- standing of your license position.

response when denials occur is to add more Proactive optimization can also be achieved expensive than others, and thus would seem licenses, and numbers are based on assumpthru software metering solutions that has the not as necessary to optimize, it is important to tions without concrete supporting data. How capability to perform automatic license har- remember that even less expensive software much licenses do they actually need? How are vesting where it allows companies to track can have a high total cost of ownership. The the end users using the applications? Are the inactive license usage and automatically re- overall costs should take into account the cost licenses being used efficiently? What is the lease back licenses to the server to promote for supporting users, training, backup, and productive use of licenses. A software optimi- more. zation tool can integrate with business intelli-These are questions that cannot be answered gence tools such as Microsoft Excel® and Step 2: Reporting without a software metering solution in place. Power BITM, Tableau® and TIBCO Spotfire® The consequences to this is wasted money and help business leaders to fully understand Software metering solutions will be able to allocated to purchasing unnecessary additional their application usage in the most simple and produce comprehensive reports coming from licenses and a sub-optimal software portfolio. interactive way, with a usage interface they the collected usage data. There are advanced

own for a particular Engineering application, ware cost optimization is to standardize the Now, let's take a closer look at the steps you can take to improve your software ROI using software metering solutions

baseline of what applications are installed and what users should be using, however, it is total of 250 licenses, there were still reports of Implementing a software usage metering and essential to capture not only the inventory but denials from end users. This time, they pur- optimization tool can help achieve large sav- also capture how the applications are being

from blaming denials as the cause for the us- tools have a quick payback period with mini- as well as the ability to collect usage regarders decrease productivity. The complaints mal post-implementation effort. The same less of different technical set up. This consolihave stopped after purchasing the additional study released by Gartner states that "Business dated data will give you a complete picture of 40 licenses. However, was an informed decileaders can cut software spend by 30% by your software portfolio and an accurate under-

Additionally, while some applications are less

reporting solutions that will enable you to

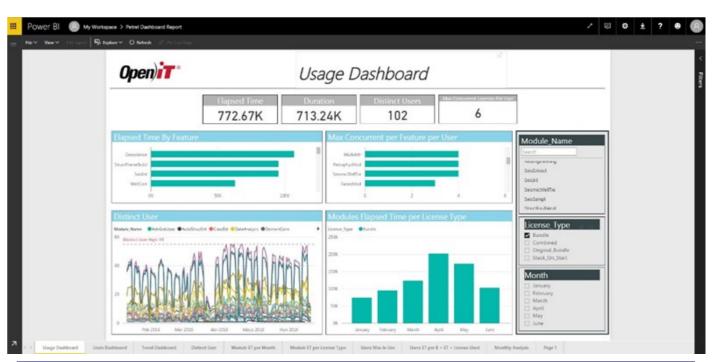


Figure 2. License Utilization Dashboard

The First

Page 40

# **SPE Norway — Digital Environments**

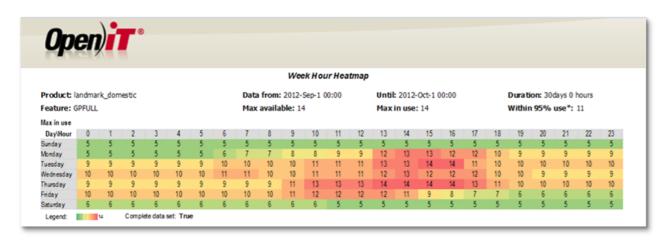


Figure 3. License Usage Heatmap. Red areas show maximum use of licenses while green shows time of the day when there are plenty of licenses available

look at the data in all angles and allow you to breakdown the structure in different ways to provide for multiple views. In some software metering tools, these breakdowns are typically limited to snapshots of time buckets, but with a powerful software metering solution, you will also be able to break down the usage by different groupings – which could be the basis for different cost trending. Some examples include cost trending by:

- Business unit or location: IT organizations should be able to communicate how much of the IT budget is dedicated to supporting a particular business unit or a location. IT spending that is dedicated to a particular part of the business, such as business-unitspecific projects or functional should be tracked and represented.
- Application or suite of applications: Understanding overall spending with portfolios of projects is critical for the application planning process.
- User or user-group: helps understand user behaviors within the organization and improve user efficiency.
- Fixed vs. variable costs: allow tracking of those add-on licenses that are leased or which have a pay-per-use agreement with software vendors.
- Vendor: Group applications or products from a vendor.
- Top projects: Organizations must be able to communicate overall project spending and the allocation of money across top projects.

turn, lessens the time and resources consumed into usage data: by IT staff. It is a fast and efficient way to

Feature	Distinct	LAN	WAN
OPENWORKS	1161.00	516.00	435.00
SEIS2D	254.00	65.00	48.00
SEIS3D	620.00	243.00	201.00
STRTWRKS	626.00	80.00	50.00
WLBRPLNR	114.00	32.00	15.00
ZMAPPLUS	329.00	69.00	39.00

Distinct	LAN	WAN
225%	100%	84%
393%	100%	74%
255%	100%	83%
787%	100%	62%
362%	100%	48%
476%	100%	57%
	225% 393% 255% 787% 362%	225% 100% 393% 100% 255% 100% 787% 100% 362% 100%

Figure 4. License Agreement Simulations

create reports for management to help them Improve User Efficiency make well-informed decisions when it comes Understand the underlying factors behind the to managers at regular intervals.

certain events occur - to support a more pro- order to see user workflow patterns: Are your active approach to asset management and users using the licenses efficiently? Are they

### Step 3: Analysis

Trends reports provide valuable insights for ware usage and improving user efficiency is a together - to give an overall picture of usage software optimization. Trend reports can be good starting point for software optimization. shown by feature, application, location, usercroup etc. It is important that the analysis Additionally, software metering is not just support the business decision that are on about measuring license efficiency but also a stake. Advanced tool can show you the long tool to improve user productivity. Inforterm trend, but were you see changes, you can mation from software usage by user or user Another advantage of monitoring through go in a zoom in on specific weeks or days - to group levels can give insights into which user software usage metering tools is how it makes look for reasons for sudden change in user groups use tools and where additional training understanding your licenses very easy - even behavior or in user needs. Reports showing is needed in order to strengthen adoption of a without in depth technical knowledge of li- underutilization of a certain asset - can docu- particular tool or a particular functionality cense administration. It removes the tedious ment ways to cut cost that does not hurt within a tool. It is important to find those process of manually consolidating usage from productivity. Below are more examples of users that revert back to old tools to get their different servers and applications - which in areas where you can optimize with insight job done. It is expensive for companies to

to software asset. These reports are typically usage trends. This is why it is important to presented in graphs and tables - in dashboards look at different metrics when analysing softand in automated reports that are sent directly ware usage. It is not enough to look at how much license is being checked out, but know how the licenses are being utilized. A soft-Advanced reporting solutions will also have ware-metering tool can be able to provide features such as alerts and notifications when usage information down to the user level in removing the need of continuously monitor- actively using the applications and checking it back into the license pool after doing their task? Or are there users who are unnecessarily hogging the licenses - using more than the needed number of licenses? Analysis the soft-

> keep various versions or tools for the same tasks

# **SPE Norway—Digital Environments**

### **Optimizing Named Users** License Agreements

Page 41

from time to time and re-examine if the cur- waste, bottlenecks and shortages. rent named user agreement is optimized. Redeploy assets that you intend to keep but Long meetings and decision processes may group more.

### Selecting the best application package based on utilization of the package's various components

save on Petrel cost

## **Optimizing Combination of** License Agreements

kind of software agreement is best for a given agers such as FlexNet and IBM LUM. application, whether it is local concurrent, global concurrent, named users, or end-user The first phase of the tool implementation are taken to improve asset and user efficiendevices. Typically, the optimal license agree- involved finding actual software usage levels cies. With this trust between IT and business, local concurrent and named user licenses.

## **Step 4: Communicate and Optimize**

After reports have been reviewed and analyzed, a number of ideas for cost savings and In the second phase of the project, they added References nicated.

may think that IT only cares about cutting 5. Conclusion costs, and not listening to user needs. In a 1In order to kick-start the software optimizalar period will be very useful for this analysis. data that is shared in clear and timely report optimization: Examples include: It is important to analyse the usage of users formats allows all players to see where there is • Renew only software that is in active use

which would benefit another user or user- not be necessary, since the reports already provide clear evidence of the need for action. • Avoid non-compliance Understanding each other's perceptions, IT can share in the company's strategic business pressures, while at the same time presenting • Eliminate manual reporting internally and usage data and how tailored cost savings can Software metering can help optimize applibe achieved by eliminating clear cases of • Target user training to improve adoption cations that are sold in packages. Different waste. Shared understanding of the issues packages include a set of modules and by among stakeholders is critical in obtaining buy tracing the module usage, you will be able to -in for cost-cutting and optimization strateidentify which package is needed to cover the gies. Trend and drill-down reports provide a usage need while minimizing the cost. As an huge advantage for fruitful discussions that example, Petrel offers Bundle and Stack-on- are focused on common goals. The risk of Start licenses, using a tool will allow you to battle between business units and IT is elimilook into the modular usage and be able to nated, and working together towards agreed determine the best type of license that can outcome is possible when discussions are centered around the facts.

### Case Study

A global 500 company was facing a challenge Some software metering and optimization with regards to managing software asset. They Critical to the overall software optimization solutions have advanced capabilities for simu- started to implement a flexible software man- process is getting IT and business leaders on lating various license agreements that can help agement tool with powerful analysis capabili- the same page by creating a deeper and combusiness and IT leaders in deciding which ties that would support multiple license man- mon level of understanding on how key re-

ment solution is a mix of global concurrent, and patterns, by collecting and analysing the you can easier adopt to new changes and stay license usage data. In this phase, they were competitive. This is not a one-time job, but an already able to gather insights about actual ongoing process that over time creates an system obsolescence and local application robust, scalable and optimized organization.

improving user efficiency will emerge. How- a tool to improve the software license availa- (i) Lovelock, John-David, et al, "Forecast ever, prior to making any decisions, it is criti- bility. The tool detected licenses that were Alert: IT Spending, Worldwide, 4Q16 Upcal to build common understanding among checked out, but not in active use: the inac- date," Gartner, Inc., January 10, 2017 stakeholders. The findings need to be commutive or idle licenses, were release back to the (ii) Hank Marquis, Gary Spivak, Victoria license pool - which resulted in a faster circu- Barber, "Cut Software Spending Safely With lation of the available licenses among users. SAM," Gartner, Inc., March 16, 2016 A thorough communication process should be During these two phases of the project, they realistic about the differing perceptions among were able to document a 47% savings of one stakeholders. For example, business leaders of their most expensive and critical software.

To optimize named user license agreements, drive to maintain quality, business units can tion process, start by harvesting low-hanging ideally, only power users should be reserved tend to proclaim their right to have certain fruit; Focus on legacy applications that might as named-users. A report that details the usage tools, regardless of the pressure placed on IT have high degree of shelfware and newly of users - including the number of days the budgets. Similarly, IT can be perceived as adopted software where you need to increase user accessed the application and how long lacking the agility to respond quickly to the adoption rate: By looking at trends in usthe user has used the application for a particu- changing business needs. In both cases, usage age, you can quickly identify candidates for

- and adds value to the business
- Based on actual usage profiles, negotiate optimal licensing agreements, sizing and best terms
- Reduce uncertainty by forecasting trends in
- for procurement and accounting
- rate of applications
- Identify power users and product champions, improve support by enabling peer-topeer user networks
- Document best practices to improve workflow analysis
- Add new technology as budget is freed up improving usage efficiency and innovation.
- Redeploy assets which benefit another user or user-group more. Redeployment can be automated by setting up specific rules for inactive and active users

sources are being used. Through this common understanding, you build trust that decision



smstenseth@openit.com