

SAM Monthly Best Practices Webinars

*Session 22: FlexNet Manager 2023R1
& the Application Publishers screen*

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Previous sessions (see in [SAM Best Practice Hub](#))

- [July 21 session : FNMS 2021R1 content and Oracle Optimization](#)
- [September 21 session : RedHat, Microsoft Windows and SQL server optimization](#)
- [October 21 Session : Everything about Oracle](#)
- [November 21 session : Metering in FlexNet Manager: collection, management and optimization](#)
- [February 22 session : Java and Windows Server Optimization report](#)
- [March 22 session: Managing unrecognized applications](#)
- [April 22 session: Managing Hybrid Applications in SaaS Manager and Flexera One ITAM](#)
- [May 22 session: Customization and creating automations in Flexera One ITAM and FlexNet Manager Cloud](#)
- [June 22 session: Integrating ITAM & FlexNet Manager on Premise with a CMDB](#)
- [July 22 session: Management of Dockers and Kubernetes containers in Flexera One ITAM / FlexNet Manager](#)
- [August 22 session: Reporting in ITAM: Web, Cognos, Dashboards customization, next steps...](#)
- [September 22 session: Managing SAM Operations in project and run phase in ITAM / FlexNet Manager](#)
- [October 22 session: ITAM & SAM - Vision and next steps](#)
- [November 22 session: Flexera One ITAM / FlexNet Manager 2022R2 features deep dive](#)
- [December 22 session: Managing IBM PVU and VPC Licensing](#)
- [January 23 session: A full optimal license position for Windows Server and CIS in one hour!](#)
- [February 23 session: Using allocations and exemptions for an optimal license position](#)
- [March 23 session: the SAM Optimization Hub](#)
- [April 23 session: the SAM Operations Hub](#)
- [May 23 session: Keep Java under Control with Flexera ITAM!](#)
- [June 23 session: Flexera Business Adapter Studio for integrations and automations!](#)

Agenda

1. Last session's pointers and answers to questions
2. News
 1. Updates in the Best Practice Hub
 2. ITAM 2023R1.1 / FNMS 2023R1
3. FlexNet Manager 2023R1: What's new?
 1. [SAM Operations Hub](#) and related 12 screens and reports
 2. The [Oracle Java](#) Worksheet
 3. Support of Linux VMs on z/VM
 4. Trend in the [SAM Optimization Hub](#)
 5. Intune inventory adapter
 6. Citrix Cloud for streamed applications
 7. [WebLogic editions](#) / Jboss data
 8. Least privileged Operations Mode for the agent
 9. Allocation reason
4. The New Application Publishers screen
 1. Business need
 2. Implementation

Last Session: The Flexera Business Adapter Studio

- Useful pointers
 - Recording and PowerPoint: [here](#)
- Answers to questions
 - No question for this session!

News

- ITAM / FlexNet Manager 2023 R1
 - Released on June 28th, 2023
- ITAM 2023R1.1
 - July 19th.
 - New Application Publishers screen
 - [Command line version of the Business Adapter Studio](#) for Cloud customers
 - Support of ARM64/Aarch64 architecture by the agent (Amazon Graviton)
- The “[Best practice Hub](#)”
 - Gives many pointers to existing best practice and visibility on the 3 coming Hubs.
 - Information on the new Cloud Migration License Impact Simulation Engine
- Please check if you received the
 - Flexera June ITAM Newsletter?
 - [Everything about WebLogic Server editions recognition!](#)
 - [Discover the Intelligent License Restriction feature](#)

KPI	Explanation	Value	Total scope	%age of scope	Performance
Number of failed tasks in run (Details)	A system task that file leads to inaccurate / not up to date information and must be fixed (More info)	1	7	15%	Red
Beacons that don't report correctly (Details)	All inventory files transit through beacons (More info)	0	0	0%	Green
Number of orphan VMs (Details)	Non cloud VMs without host are the sign of decommissioning process issue or eCenter report issue (More info)	400	10,000	4%	Green
Number of merged devices (different sources) (Details)	Big cause of false positives (More info)	4,000	20,000	20%	Orange
Number of merged devices (same source) (Details)	(More info)	300	6,000	5%	Orange
Unlicensed Commercial Installations (Details)	These installations are under the radar (More info)	20,000	200,000	10%	Orange
Unprocessed Purchases (Details)	(More info)	20	100	2%	Green

Operations KPI (Trend)

Can I trust my inventory?
Are my inventory import system tasks successful?
This should be the first check of the day. The system tasks screen shows on failing task. This requires a fix.

Flexera ITAM Best practice information available in Flexera Community

 nrousseau1
Level 8 Flexeran

Apr 19, 2022 02:40 AM

👍 13 💬 20 👁 7,687

This is all about sharing and applying best practices

You may have seen here and there interesting KB articles, using the powerful customizations possibilities of FNMS to provide extensions to the out of the box value for reporting or automations... The issue is that the articles are spread and unless you know what you look for you may miss some interesting information.

The purpose of this post, that will be extended over the time, is to provide you with a "SAM Best Practices Hub", a single pane of glass to understand and use the published solutions and the coming features: SAM Optimization Hub in 2022 Q3, SAM Operations Transparency Hub in Q4 2022, a SAM Data Transparency Hub in 2023... where these best practices will be progressively incorporated.

The solutions are addressing both ends of the "SAM Maslow Pyramid" (from bottom to top) and are anticipating where Flexera goes with SAM:

- Provide data and KPIs to monitor the health of your SAM Project. The custom reports will gradually be included in the **SAM Operations Transparency Hub**... Planned for 2023 Q1
- Provide transparency on your SAM data (usage, Oracle instances and options details, overview on SAP inventory...). The **SAM Data Transparency Hub** is planned for 2023 Q2
- Provide the high end value that does beyond compliance, with a focus on Optimization. Most of reports have been productized in 2021/2022. The **SAM Optimization Hub** delivered in 2022 Q4 summarizes and articulate these reports.

FlexNet Manager 2023R1

Agenda

- [SAM Operations Hub](#) and related 12 screens and reports
- The [Oracle Java](#) Worksheet
- Support of Linux VMs on z/VM
- Trend in the [SAM Optimization Hub](#)
- Intune inventory adapter
- Citrix Cloud for streamed applications
- [WebLogic editions](#) / Jboss data
- Least privileged Operations Mode for the agent
- Allocation reason

Managing Technology Portfolio Effectively

SAM Optimization Hub

IT ASSET MANAGEMENT

- Summarize Key Performance Indicators on operations topics
 - Data quality
 - SAM technical performance
 - SAM operations performance
- An Enterprise Filter allows slicing of information
- Drill down to the reports for additional details

SAM Operations Hub
KPI dashboard Enterprise filter +

KPI	Explanation	Value	Total scope	%age of scope	Performance
Number of failed tasks in run (Details)	A system task that file leads to inaccurate / not up to date information and must be fixed (More info)	1	7	15%	Red
Beacons that don't report correctly (Details)	All inventory files transit through beacons (More info)	0	0	0%	Green
Number of orphan VMs (Details)	Non cloud VMs without host are the sign of decommissioning process issue or vCenter import issue (More info)	400	10,000	4%	Green
Number of merged devices (different sources) (Details)	Big cause of false positives (More info)	4,000	20,000	20%	Yellow
Number of merged devices (same source) (Details)	(More info)	300	6,000	5%	Yellow
Unlicensed Commercial Installations (Details)	These installations are under the radar (More info)	20,000	200,000	10%	Yellow
Unprocessed Purchases (Details)	(More info)	20	100	2%	Green

Operations KPI (Trend)

Line chart showing trends from 01-2022 to 01-2023 for: Orphan VMs, Merged devices, Failing Tasks, and Unprocessed PO.

Can I trust my inventory?
Are my inventory import system tasks successful?
This should be the first check of the day. The system tasks screen shows on failing task. This requires a fix.

Reports and screens that support the Operations Hub

- Reports
 - Possible Options False Positives From OEM
 - Merged Devices Issues Analysis
 - Oracle Inventory Troubleshooting
 - vCenter Inventory Troubleshooting
 - Licenses Issues Analysis
 - Unrecognized Installer Evidence Analysis
 - Licenses Compliance And Unlicensed Products Risks
 - VMs Inventory Gaps From vCenters
 - SAP Systems Inventory Details
- Screens
 - Contracts To Be Renewed (90 Days)
 - Failed System Tasks In Last Run
 - On-Premises Orphaned Virtual Machines
 - Unlicensed Commercial Installations

Oracle Java Worksheet

- How Flexera helps you keep Java under control
 - Flexera is Java verified
 - Provides transparency
 - Oracle Java Worksheet (New!)
 - Application transparency report
 - Recognizes Licensable / Non-Licensable versions of Java
 - Manages Embedded instances
 - Computes your consumption
 - If you are on an existing Oracle Master Agreement Contract (with Java Subscription before January 2023): Desktop (/user) versus Server (Oracle Processor)
 - If you have no subscription prior to January 2023: 1 licensable installation = a scription for all Full time / part time employees

More transparency with the Oracle Java Worksheet

Reporting / Compliance Reports / Oracle Java Worksheet

Flexera One Demo

Oracle Java Worksheet

Detailed information about your Oracle Java deployment, gathered by the Flexera agent and modeled on Oracle's own spreadsheet.

Java Vendor: All Enterprise: All [Run Report](#)

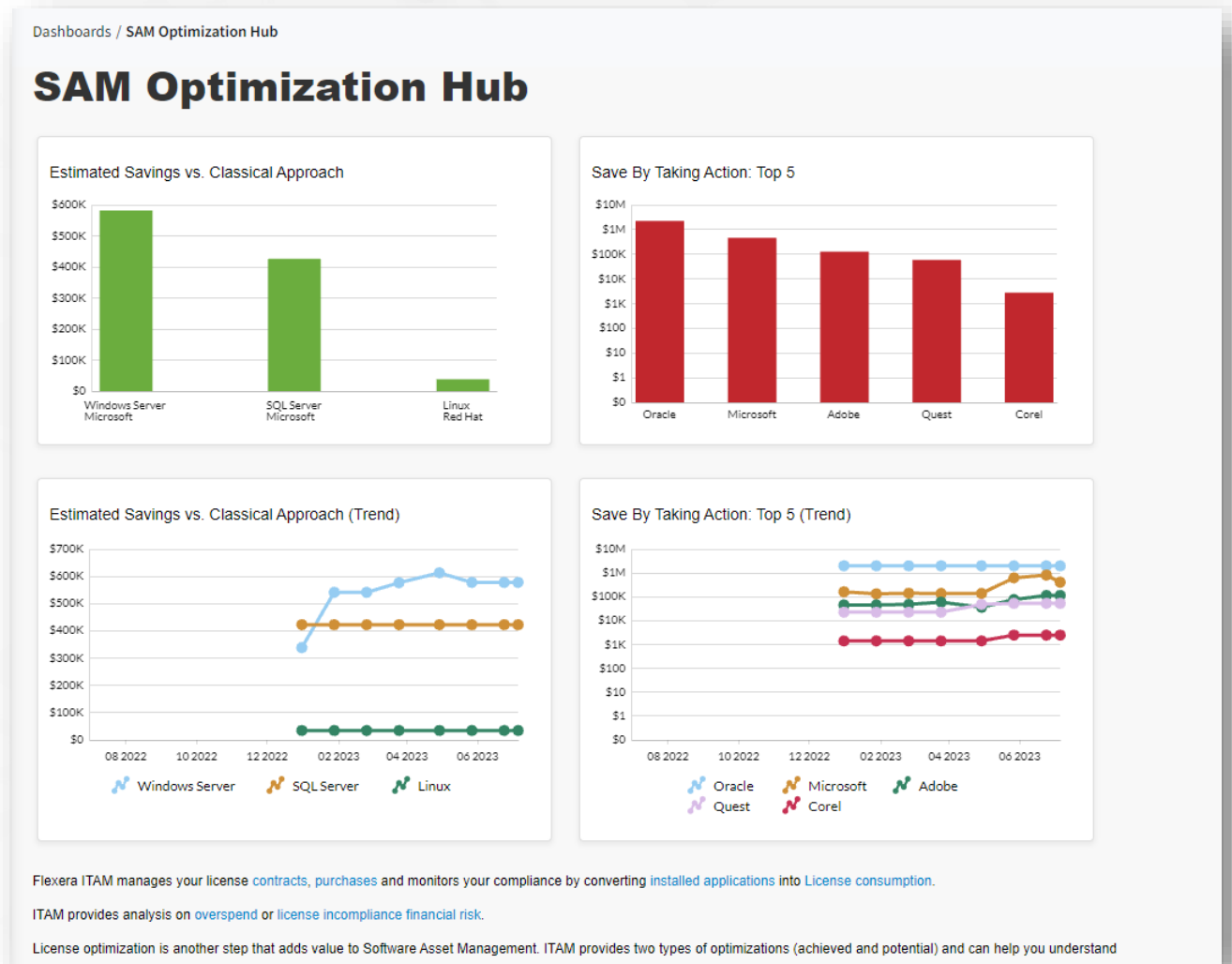
187 results returned 20 rows per page [Export](#)

Physical machine name	Virtual machine name	Machine type	Operating system	Environment type	Incomplete data	Java publisher/runtime vendor	Java release/version/build	Installation path	Installation date	Release file exists	Processor model	Sockets	Cores	Version 8 and earlier	Open source	Unlo
ComputerE		D	Microsoft Windows 10 Enterprise	PROD	Yes	Oracle	8.0.2510.8	C:\Program Files\Java\jdk1.8.0_251\jre\bin\			Intel(R) Core(TM) i7-7820HQ CPU @ 2.90GHz	1	4	No	No	
computerc		D	Microsoft Windows 10 Enterprise	PROD	Yes	Oracle	8.0.2710.19	C:\Program Files (x86)\HyperionClient\jvm\bin\			Intel(R) Core(TM) i7-7820HQ CPU @ 2.90GHz	1	4	No	No	
ComputerF		D	Microsoft Windows 10 Enterprise	PROD	Yes	Oracle	8.0.2510.8	C:\Program Files\Java\jdk1.8.0_251\jre\bin\			Intel(R) Core(TM) i7-7820HQ CPU @ 2.90GHz	1	4	No	No	
computerd		D	Microsoft Windows 10 Enterprise	PROD	Yes	Oracle	8.0.2510.8	C:\Program Files\Java\jdk1.8.0_251\jre\bin\			Intel(R) Core(TM) i7-7820HQ CPU @ 2.90GHz	1	4	No	No	
ComputerB		D	Microsoft Windows 10 Enterprise	PROD	Yes	Oracle	8.0.2510.8	C:\Program Files\Java\jdk1.8.0_251\jre\bin\			Intel(R) Core(TM) i7-7820HQ CPU @ 2.90GHz	1	4	No	No	
computera		D	Microsoft Windows 10 Enterprise	PROD	Yes	Oracle	8.0.910.00	C:\oracle\product\12.2.0\client_1\jdk\bin\			Intel(R) Core(TM) i7-7820HQ CPU @ 2.90GHz	1	4	No	No	

- Reflects what is in the GLAS file
- “Coming from other product” field is coming from “Oracle Embedded by File Path Exemption”
- Provides information that is not directly used in reconciliation yet: AMC agent, Mission Control data, Unlock Commercial Feature. Consider rows with these flags as “Additional Licensable installations”

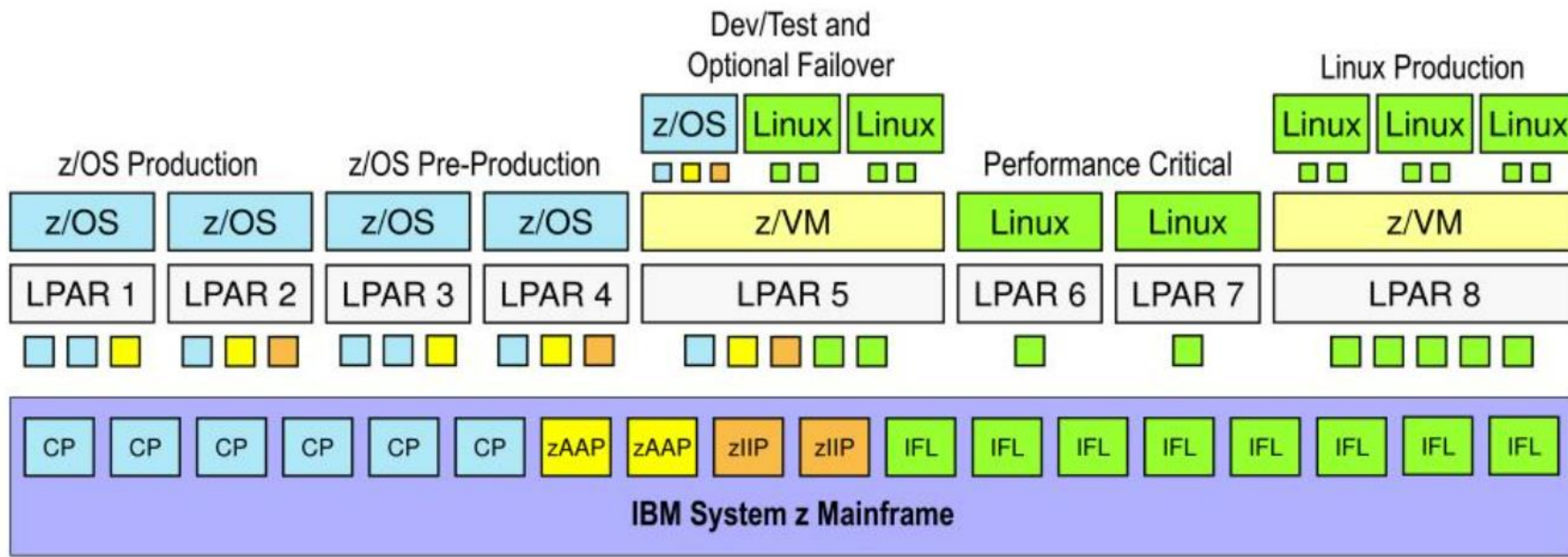
Trends for SAM Optimization Hub

- SAM Optimization Hub delivered in 2022R2
- Started to historize Optimization KPIs
- Data will now be surfaced
- Interpreting the data
 - Raising realized optimizations means your VMs density is decreasing (Windows & SQL Server, Red Hat) and that the “easy” choices gets more and more expensive.
 - **The big question is: are you using the “easy and expensive” approach?**
 - Decreasing Potential Optimization means you have taken action (Stopped subscriptions, moved Oracle VMs to specialized clusters) that successfully decreases your license costs



Linux VMs on z/OS

- Challenge: 4 layers of capping



New Pool types and levels to support the architecture

<input type="checkbox"/>	Name	Type	VM pool type	Manufacturer	Model	Serial number	Path	Last inventory date
		machine						
<input type="checkbox"/>	[-] P00F1DF1	Host		IBM	3906-M04	IBM3906F1DF102	Unclustered hosts and VMs/P00F1DF1	3/17/2023
<input type="checkbox"/>	[-] IFL Shared Pool	Pool	IFL Resource Pool				Unclustered hosts and VMs/P00F1DF1/IFL Shared Pool	
<input type="checkbox"/>	[-] ZM01	Pool	IFL LPAR				Unclustered hosts and VMs/P00F1DF1/IFL Shared Pool/ZM01	
<input type="checkbox"/>	[-] P00F1DF1_ZM01	Pool	IFL KVM Hypervisor				Unclustered hosts and VMs/P00F1DF1/IFL Shared Pool/ZM01/P00F1DF1_ZM01	
<input type="checkbox"/>	singlekvm_vm1	Virtual machine		IBM	3906-M04	IBM3906F1DF102:1:singlekvm_vm1	Unclustered hosts and VMs/P00F1DF1/IFL Shared Pool/ZM01/P00F1DF1_ZM01/singlekvm_vm1	2/15/2023
<input type="checkbox"/>	[-] P00F1DF2	Host		IBM	3906-M04	IBM3906F1DF202	Unclustered hosts and VMs/P00F1DF2	3/17/2023
<input type="checkbox"/>	[-] IFL Shared Pool	Pool	IFL Resource Pool				Unclustered hosts and VMs/P00F1DF2/IFL Shared Pool	
<input type="checkbox"/>	[-] ZM01	Pool	IFL LPAR				Unclustered hosts and VMs/P00F1DF2/IFL Shared Pool/ZM01	
<input type="checkbox"/>	[-] P00F1DF2_ZM01	Pool	IFL zVM Hypervisor				Unclustered hosts and VMs/P00F1DF2/IFL Shared Pool/ZM01/P00F1DF2_ZM01	
<input type="checkbox"/>	singlezvm_vm1	Virtual machine		IBM	3906-M04	IBM3906F1DF202:1:singlezvm_vm1	Unclustered hosts and VMs/P00F1DF2/IFL Shared Pool/ZM01/P00F1DF2_ZM01/singlezvm_vm1	2/15/2023

PVU reports and consumption tab have been adapted

IBM PVU License Consumption

Displays a list of software covered by Processor Value Unit (PVU) licenses and the license entitlements consumed against those licenses including retrospective data covering the entire reporting period that was chosen.

Reporting period (UTC) 7/1/2023 7/6/2023 Licenses IBM IBM Super Important Application 5.0 [Run Report](#) [Download the IBM audit report](#)

14 results returned 20 rows per page

 [Export](#)

Resource pools									Inventory device
Pool 1	Pool 1 core sub-capacity limit	Pool 1 core sub-capacity	Pool 2	Pool 2 core sub-capacity limit	Pool 2 core sub-capacity	Pool 3	Pool 3 core sub-capacity limit	Pool 3 core sub-capacity	Computer
IFL Shared Pool	32	5	ZM01	20	5	P00F1DF1_ZM01	20	5	singlekvm_vm1
IFL Shared Pool	32	15	ZM01	20	15	P00F1DF2_ZM01	20	15	singlezvm_vm1
IFL Shared Pool	32	20							standalone_inar1
CP Shared Pool	85	12	SVSCDR2	40	5	zVM 1			
IFL Shared Pool	32	13	ZM22	20	2	P00F1DF4_ZM22			
IFL Shared Pool	32	13							
CP Shared Pool	85	12							
IFL Shared Pool	25	20	LPAR2	10	10	KVM 1			
IFL Shared Pool	25	20	LPAR2	10	10	KVM 1			
IFL Shared Pool	25	20	LPAR1	10	10	zVM 1			
IFL Shared Pool	25	20	LPAR1	10	10	zVM 1			
CP Shared Pool	25	25	ZM55	30	30				
IFL Shared Pool	22	20	ZM55	20	20	P00F1DF6_ZM55			

Licenses / License Management / All Licenses

The license has been allocated to these devices, or they have software installed that is currently consuming from this license (as at 4:04 pm yesterday).

Each allocation may consume a license entitlement regardless of installations. This management setting is on the 'Use rights & rules' tab.

- [For peak consumption details, view the IBM PVU License Consumption report.](#)
- [For current consumption details, view the IBM PVU License Current Consumption report.](#)

 [Search](#)

[Deallocate](#) [Show Assessment Details](#) [Allocate](#)

49 results returned 20 rows per page

 [Export](#)

Device	Inventory device type	Cores	Consumed	Installed	Used
<input type="checkbox"/> P00F1DF1	VM Host	139	500	No	No
<input type="checkbox"/> IFL Shared Pool	Resource Pool	32	0	No	No
<input type="checkbox"/> ZM01	Resource Pool	20	0	No	No
<input type="checkbox"/> P00F1DF1_ZM01	Resource Pool	20	0	No	No
<input type="checkbox"/> singlekvm_vm1	Virtual Machine	5	0	Yes	Yes
<input type="checkbox"/> P00F1DF2	VM Host	139	1,500	No	No
<input type="checkbox"/> IFL Shared Pool	Resource Pool	32	0	No	No
<input type="checkbox"/> ZM01	Resource Pool	20	0	No	No
<input type="checkbox"/> P00F1DF2_ZM01	Resource Pool	20	0	No	No
<input type="checkbox"/> singlezvm_vm1	Virtual Machine	15	0	Yes	Yes

WebLogic Editions

- See [KB article](#)

How to get WebLogic Server editions fully recognized!

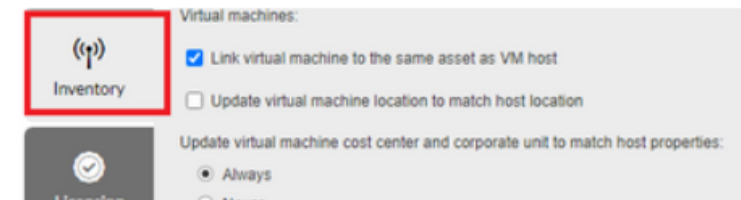
WebLogic editions recognition works now perfectly and Flexera has implemented [a mechanism to remove the OUI and BEA installer evidence](#) false positives on June 6th 2023.

Please find some guidance and explanations of WebLogic editions recognitions that has some pre-requisites described in details below. This article gives an historical overview of the enhancements that have been brought to the WebLogic Server edition recognition.

- The 2021R1 version released in June 2021 became "Middleware verified", which means it can collect middleware evidence for the GLAS file. Note that to collect the data, you need to set in the Discovery and Inventory / inventory settings the Middleware data collection.



- If you want the data to be in the GLAS file, you need also to mention it in the System Settings / Inventory



Application Publishers screen

Why the SAM Publisher Hub?

- ITAM has an “Object Centric” view of the SAM World (Purchases, Contracts, Licenses, Installed applications), which makes sense in many cases
- Business objects (Purchases, Contracts, Licenses) are linked to the vendors (that can be created through purchase imports) that are not normalized.
- Customers are organized “per Application Publisher” for compliance / contract Management with Microsoft, Oracle or IBM SAM Managers.
- We need to position the application Publisher in the center of the SAM game.
- Through screens (information + process) and a dashboard
- Our customers will be able now to answer the simple but complex to address “What Publisher matters to me?” question

Managing Technology Portfolio Effectively

SAM Publisher Hub

IT ASSET MANAGEMENT

- Vendor to Publisher normalization **2023R1.1**
- New Application Publishers Screen
- Application Publisher-centric full picture on SAM
 - Inventory (with trend)
 - Compliance (with trend)
 - Contracts and upcoming renewals
 - Spend by quarter / contract
 - Unrecognized evidence
 - Drill down to new Publisher screen and detail
- More info in the [Best practice Blog](#)

The screenshot displays the SAM Publisher Hub interface. On the left is a dark navigation sidebar with the Flexera logo and a search bar. The sidebar menu includes: Home, Favorites, Workspaces, Dashboards, Business Services, IT Visibility, Licenses, Applications & Evidence, Inventory, Hardware, SaaS, Cloud, Automation, Procurement, and IT Asset Requests.

The main dashboard area is titled "SAM Publisher Hub" and features several data visualization components:

- Top 5 Over and under compliance:** A bar chart comparing Purchased, Consumed, and Balance for SQL Server Enterprise, Windows Server Professional, and Project.
- Compliance Trend (Top 20):** A line chart showing trends for SQL Server, Windows Server, and Linux from Q1 2022 to Q3 2022.
- Optimization:** A bar chart titled "Save By Taking Action: Top 5" showing values for ES, E3, Visio Plan 1, and Project Plan 1 E1.
- Optimization trend:** A line chart showing trends for SQL Server, Windows Server, and Linux.
- Installed Applications:** A pie chart showing the distribution of five products: product 1 (10.7%), product 2 (15.6%), product 3 (21%), product 4 (28.9%), and product 5 (23.6%).
- Installation trend:** A line chart showing trends for SQL Server, Windows Server, and Linux.
- Upcoming Contracts Renewals:** A bubble chart showing renewal dates from May 2023 to Jan 2024.
- Spend over time / Contract (quarter over 3 years):** A bubble chart showing spend trends.
- Spend trend:** A line chart showing trends for SQL Server, Windows Server, and Linux.

At the bottom left of the dashboard, there is a table with the following structure:

	Q1-20	Q2-20	Q3-20	Q4-20	Q1-21	Q2-21	Q3-22
Contract							
None	10K						
EASL							
Select A							
Total spend							

SAM Publisher Hub – Screens, Vendor normalization

IT ASSET MANAGEMENT

- Vendor to App Publisher normalization
 - Links business information (contracts, purchases, licenses) to application publishers
 - Calculated Application Publisher (Can be Overridden)
- Vendor screen extensions including Licenses, Publisher tabs
- Application Publishers screen
 - All app publisher’s KPIs in the grid (e.g., total spend, number of commercial installations active contracts, upcoming renewals, number of licenses)
 - All tabs to understand data and perform processed (e.g., installed applications, unlicensed installations, spends by quarter / contract)

Application Publishers Any publishers which applications can be recognized, regardless of whether they are installed

22,247 results returned 20 rows per page

Publisher Name	Total Spend (USD)	Installations (Commercial)	Containers (Commercial)	Installations	Containers	Licenses	Contracts	Expiring Contracts (90 days)	Processed Purchases
Microsoft	\$5,555,440.00	804	0	4,158	0	3	2	1	1
Adobe	\$2,250,000.00	1	0	38	0	1	0	0	1

Publisher properties **Microsoft**

Spends

Summarized spend over five years

Spend	2018 (USD)	2019 (USD)	Variation (%)	2020 (USD)	Variation (%)	2021 (USD)	Variation (%)	2022 (USD)	Variation (%)	2023 (USD)	Variation (%)
Total	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$5,000,000.00	100	\$555,440.00	-88.89

Detailed spend by contract over three years

2 results returned 20 rows per page

Contract	Q2 2020 (USD)	Q3 2020 (USD)	Q4 2020 (USD)	Q1 2021 (USD)	Q2 2021 (USD)	Q3 2021 (USD)	Q4 2021 (USD)	Q1 2022 (USD)	Q2 2022 (USD)	Q3 2022 (USD)	Q4 2022 (USD)
Microsoft Select	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000,000.00	\$0.00	\$0.00
None	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

- General
- Installed applications
- Licenses
- Contracts
- Purchases
- Vendors
- Spends
- Unlicensed Installations
- Unrecognized Installer Evidence
- Unprocessed Purchases



Thank you!

About Flexera

Flexera delivers SaaS-based IT management solutions that enable enterprises to accelerate digital transformation and multiply the value of their technology investments. We help organizations ***inform their IT*** with definitive visibility into complex hybrid IT ecosystems, providing unparalleled IT insights that allow them to seize technology opportunities. And we help them ***transform their IT*** with tools that deliver actionable intelligence across an ever-increasing range of dimensions to effectively manage, govern and optimize their hybrid IT estate.

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