

SAM Monthly Best Practices Webinars

Session 18: SAM Optimization Hub



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flexera[™]

Agenda

1. Last session's pointers and answers to questions
2. News
 1. Updates in the Best Practice Hub
 2. ITAM / FNMS 2022R2.2 / 2022R2.3
3. SAM Optimization Hub
 1. The SAM Optimization Hub positioned in the ITAM evolution
 2. General approach
 3. The "Price Per Unit" is key
 4. Underlying reports

Last Session: Using allocations and exemptions for optimal license position

- Useful pointers
 - Recording and PowerPoint: [here](#)
- Answers to questions:
 - Will the KPI dashboard/SAM optimization hub be available for on prem or just FlexeraOne
 - The SAM Hubs (Optimization (released in 2022R2), Operations (Coming in Q2) and Transparency (Publisher centric)) are available on both on prem and cloud and don't require Cognos to be installed
 - In the KPI dashboard, will we have the possibility to filter on location ? (we use location to differentiate the regions)
 - Yes, an enterprise filter will allow to slice the data (snapshot, history) by location / corporate unit / cost center

News

- ITAM 2022 R2.2 (March 1st / 5th)
 - Inventory and Licensing for Linux VMs on z/System
 - Trends in the Optimization Hub
 - Screens extensions (containers, IsServer in Inventory screens, Clusters in allocation screen)
 - A new *Merged Devices Inventory Issues* report catches applications possible false positives due to inventoried devices merge (part of the Operation's hub).
- ITAM 2022 R2.3 / ITAM 2022 R2.4
 - End Of March
 - Will include
 - The SAM Operations Hub (snapshot, trend, Enterprise filter)
 - More reports of the Operations Hub (vCenter Inventory issues, Unrecognized Installer Evidence analysis...)
 - Intune Inventory Adaptor
- 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 February ITAM Newsletter

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 (Show Info)	1	7	15%	Red
Beacons that don't report correctly (Details)	All inventory files transit through beacons (Show 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 (Show Info)	400	10,000	4%	Green
Number of merged devices (different sources) (Details)	Big cause of false positives (Show Info)	4,000	20,000	20%	Orange
Number of merged devices (same source) (Details)	(Show Info)	300	6,000	5%	Orange
Unrecognized Commercial Installations (Details)	These installations are under the radar (Show Info)	20,000	200,000	10%	Orange
Unprocessed Purchases (Details)	(Show 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.

Cloud Migration License Impact Simulation Engine

- Simulates migrations of VMs to Cloud providers
- Provides license calculations before and after move
- Computes license consumption and cost impact
- Simulations can be saved

Data Center 32 Move To Azure & Google Simulation v2

Search for inventory devices to allocate

4 of 1,141 results selected

Device	Operating system	Hosted in	Host	Corp
0tnaavd032	Red Hat Enterprise Linux ES 7.9	On-premises	stnnavcde121	Marketing
alngey	Microsoft Windows Server 2012 R2 Standard	On-premises	sedcv105002005	Marketing
ARSVR2012	Microsoft Windows Server 2012 Standard	On-premises	stnnavcale007	IT
aws1	Microsoft Windows Server 2012 R2 Datacenter	On-premises	stnnavcale007	
b13a00	Microsoft Windows Server 2008 R2 Enterprise	On-premises	stnnavcale007	
b22001	Microsoft Windows Server 2012 R2 Standard	On-premises	u788vdl62001003	
b22a00e	Microsoft Windows Server 2012 R2 Standard	On-premises	stnnavcale007	
BUCVPSCCM01	Microsoft Windows Server 2012 R2 Standard	On-premises	stnnavcale007	
c2pmlg02	AIX 7.1	On-premises	2151C6W	
c2qdmgr01	AIX 7.1	On-premises	2151C6W	

1,141 results returned 10 rows per page

VMs selected for simulation

Name	Status	Inventory device type	Host	Hosted in cloud	Corporate unit	Manufacturer	Model
0tnaavd032	Active	Virtual Machine	stnnavcde121	No	Marketing	VMware, Inc.	Azure VMware Virtual Platform
alngey	Active	Virtual Machine	sedcv105002005	No	Marketing	VMware, Inc.	Azure VMware Virtual Platform
ARSVR2012	Active	Virtual Machine	stnnavcale007	No	IT	VMware, Inc.	Google VMware Virtual Platform
aws1	Active	Virtual Machine	stnnavcale007	No		Microsoft Corporation	Google Virtual Machine
b13a00	Active	Virtual Machine	stnnavcale007	No		VMware, Inc.	VMware Virtual Platform

License Consumption Impact

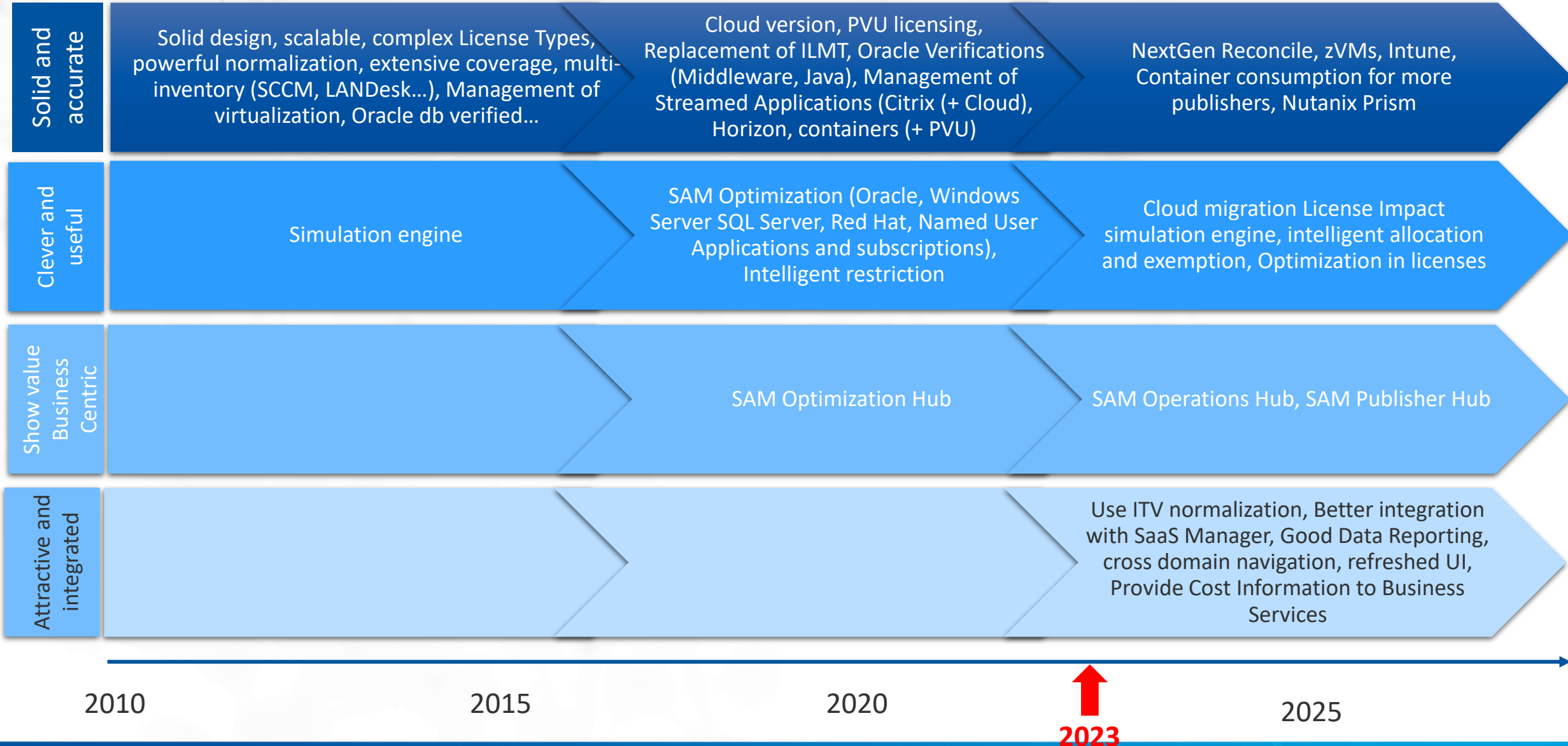
License name	Original points consumed	New points consumed	Points changed	Changed value	Purchased	Original liability	Projected liability	Change to liability	Status	Unit price
Oracle DB Enterprise - Processor	191	197	6	\$186,000.00 USD	115	\$2,356,000.00 USD	\$2,542,000.00 USD	\$186,000.00 USD	Still at risk	\$31,000.00 USD
Oracle DB Enterprise for BYOSL	4	4	0	\$0.00 USD	4	\$0.00 USD	\$0.00 USD	\$0.00 USD	Still compliant	\$31,000.00 USD
Oracle Options - Diagnostics Pack	41	41	0	\$0.00 USD	40	\$10,000.00 USD	\$10,000.00 USD	\$0.00 USD	Still at risk	\$10,000.00 USD
Oracle Options - Tuning Pack (Processor)	37	37	0	\$0.00 USD	40	\$0.00 USD	\$0.00 USD	\$0.00 USD	Still compliant	\$10,000.00 USD
				\$186,000.00 USD		\$2,366,000.00 USD	\$2,552,000.00 USD	\$186,000.00 USD		

SAM Optimization Hub

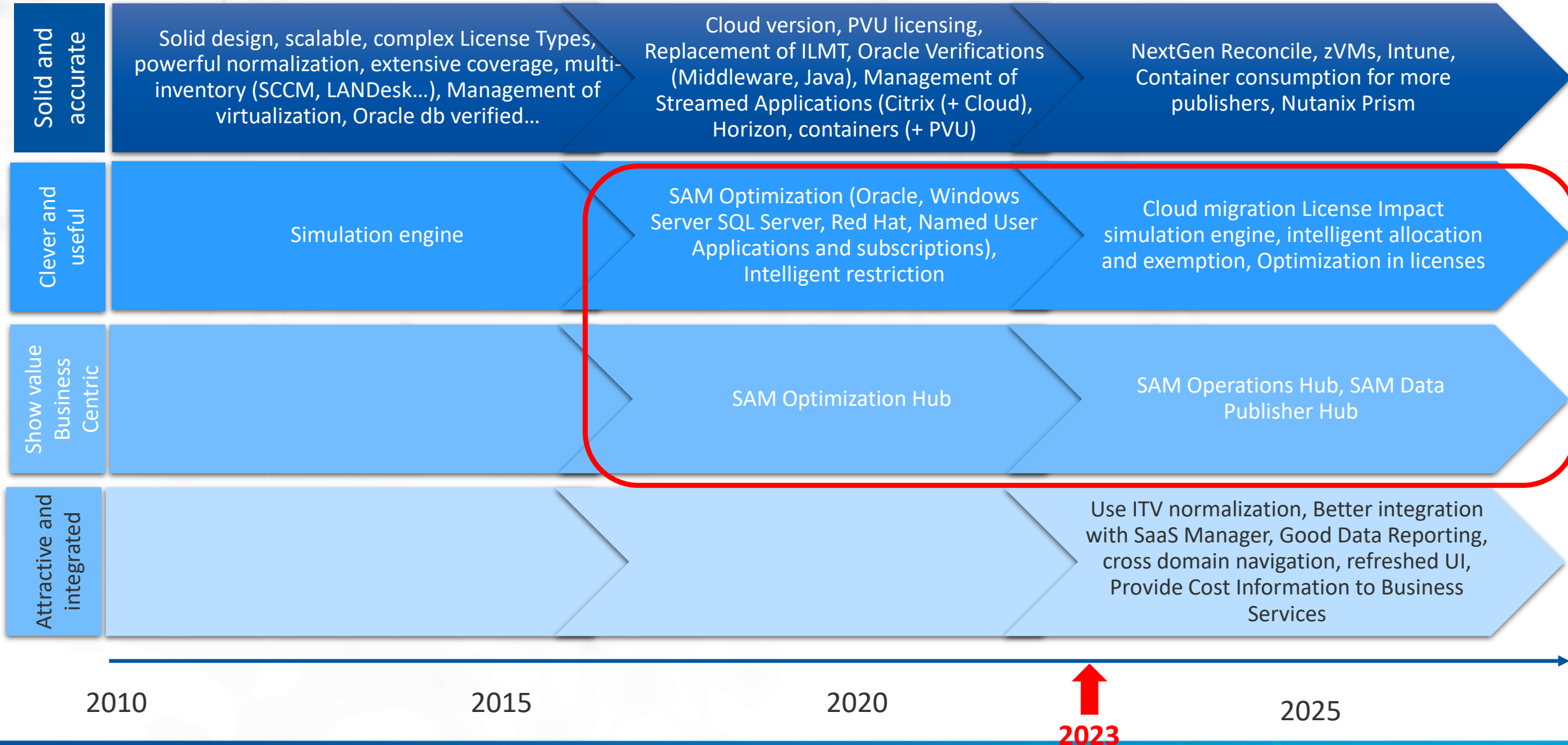
Agenda

1. The SAM Optimization Hub Positioned in the ITAM evolution
2. General approach
3. The underlying reports

ITAM Phased evolution

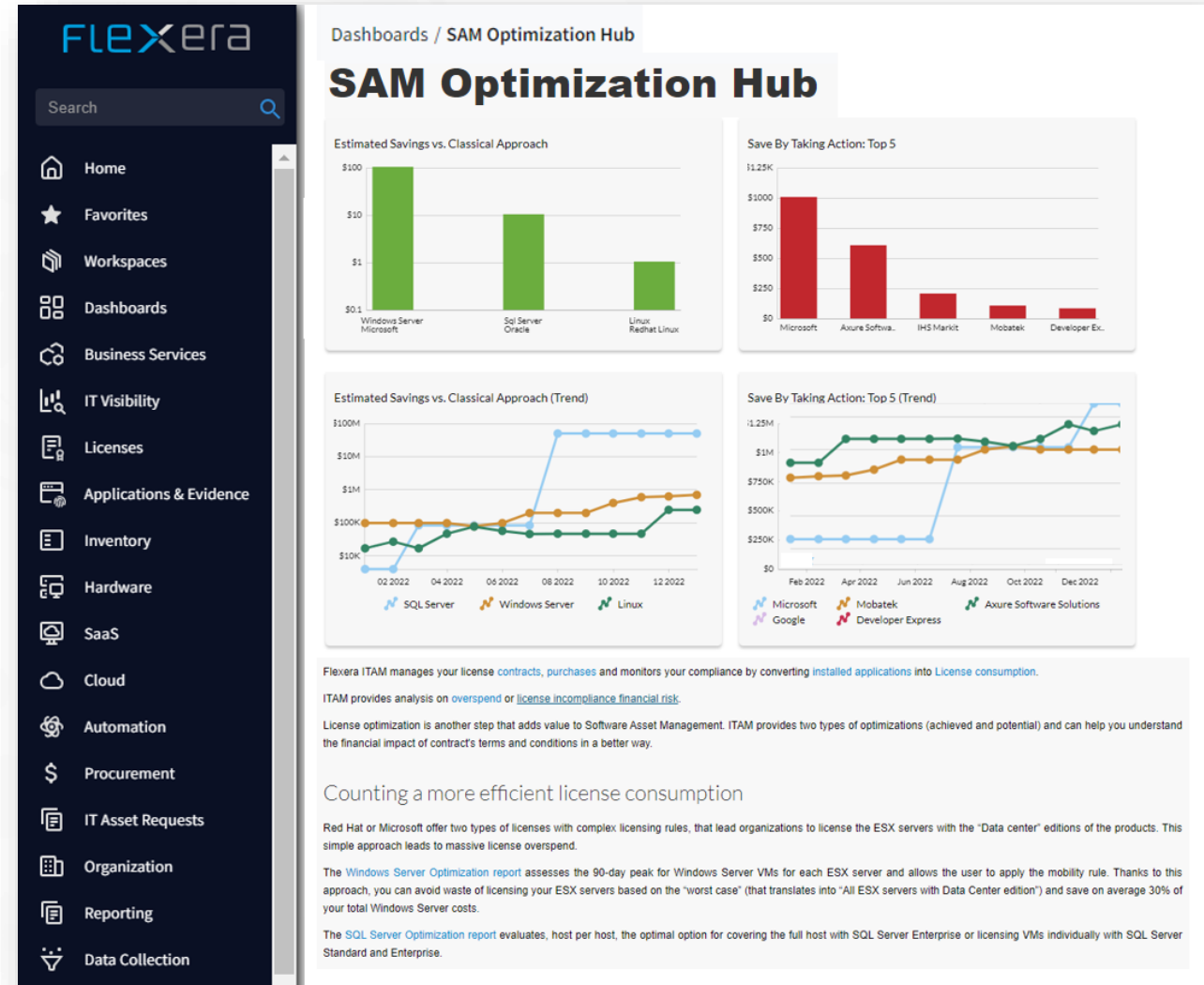


Our focus for this session



SAM Optimization Hub

- Summarize achieved optimization in licenses and subscriptions
- Summarize potential optimization in licenses and subscriptions
- Provide drill down to detailed optimization reports



General Approach

- First SAM Hub of a series (see next slides)
- Goal: surface the sophisticated and not used enough optimization data
- Attract attention / drill down / fine tune / save or understand savings
- Two types of optimization
 - Realized: the clever way versus the “Classical / easy / conservative / expensive)
 - Potential: Take action and you will save money
- Of course: foundations must be good to work on optimization (SAM Operations Hub will be useful)

SAM Operations Hub

- Summarize Key Performance Indicators on key operations topics
 - Data quality
 - SAM technical performance
 - SAM operations performance
- Provides drill down to the reports for additional details
- More information in the [Best practice Blog](#)

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

The main content area is titled "SAM Operations Hub" and "KPI dashboard". It features a table with the following data:

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

Below the table is a line chart titled "Operations KPI (Trend)" showing performance from 01 2022 to 01 2023. The Y-axis ranges from 0% to 14%. The chart tracks four metrics: Orphan VMs (blue line), Merged devices (orange line), Failing Tasks (green line), and Unprocessed PO (purple line). All metrics show a general downward trend over the period.

At the bottom of the dashboard, there are two sections: "Can I trust my inventory?" and "Are my inventory import system tasks successful?". The second section includes a note: "This should be the first check of the day. The system tasks screen shows on failing task. This requires a fix."

SAM Publisher Hub

- Publisher Centric View (Publisher selector)
- Compliance
- Risk
- Inventory
- Spending
- Contracts / Renewals

From Compliance to Optimization

- What did I purchase?
- What are my active contracts?
- What did I deploy? (Physical, virtual, Cloud)
- Am I compliant?
- What is my legal risk / needed investment?



From Compliance to Optimization

- What did I purchase?
- What are my active contracts
- What did I deploy? (Physical, virtual, Cloud)
- Am I compliant?
- What is my legal risk / needed investment?
- What could I change to save money in my architecture?
- Am I really using what I deployed? Should I uninstall? How much could I save?
- What if I was negotiating other terms and conditions with Oracle?



SAM Optimization value delivered

The bricks: 9 SAM Optimization Reports

Oracle Optimization
(5 reports 2022R1 / 2022R2)

Pharmaceutical Company: EUR16 Million in Oracle Cost Avoidance
Large French: EUR 3million in Maintenance decrease

SQL Server Optimization (2022R1.4)
Red Hat Optimization (2022R1.4)
Windows Server Optimization (2022R1)

Industrial Company: EUR1.6 Million / year in Datacenter Maintenance reduction
Telecom Company: USD2 million / year in Datacenter maintenance reduction

Named User Optimization (2022R1.4)

Mid-size Media Company: EUR50K on Adobe
All Apps into stand alone products

Optimum/Virtualized Architecture for Oracle Options

Proposes improved architecture, grouping VMs with a set of soft partitioning in VMware environments, optimizing costs for all installed, activated, and licensable Oracle options. VMs with consistent options are grouped for clusters, with suggested core assignments. Options control costs assigned locations.

Location grouping: **RUN REPORT**

304 results returned 20 rows per page

VM name	Cores	Host name	Cluster name	Cluster cores	Cluster cores with same options	Suggested cluster	Recommended cluster cores	Oracle options in use	Instances with all options	Instances with fewer options
amnew	20	esi-gb-1	Cluster XXX	56	136	Cluster - Active Data Guard, Diagnostics Pack, Partitioning, Tuning Pack	56	Active Data Guard, Diagnostics Pack, Partitioning, Tuning Pack	ARRS (4)	
trnew	20	esi-gb-2	Cluster XXX	56	136	Cluster - Active Data Guard, Diagnostics Pack, Partitioning, Tuning Pack	56	Active Data Guard, Diagnostics Pack, Partitioning, Tuning Pack	LRS (4)	
sius-db-replica	6	esi-gb-2	Cluster XXX	56	426	Cluster - Advanced Compression	24	Advanced Compression	WLDB (1)	
sius-db	12	esi-gb-2	Cluster YYY	56	296	Cluster - Advanced Compression, GoldenGate, Partitioning	16	Advanced Compression, GoldenGate, Partitioning	WLDB (2)	

Suggested optimization
Savings could be obtained by clustering together VMs with consistent installed and used options. Licensing costs could be reduced by 564 cores. Diagnostics Pack EUR4,336,364, Oracle Database Enterprise EUR25,669,830, Tuning Pack EUR7,167,543. Total saving from current to target architecture: EUR42,230,324

Microsoft Windows Server Optimization

Calculates the optimal license (either Windows Server Standard, Windows Server Standard, Core Infrastructure Datacenter or Core Infrastructure Standard) on VMs, hosts, or stand-alone devices. Please choose the options that fit your needs.

License In Scope: Windows Server & OS Risk Approach: Less Safe Assessment Metric: 90 Day Peak Show Orphan VMs: Yes **RUN REPORT**

Device type is VM Host: X

48 results returned 20 rows per page

Cluster name	Device name	Cores	Device status	Optimal license	Operating system	Device type	Consumed cores	Comment on optimization	Value consumed (USD)	ESK cost (Datacenter) (USD)	Saving for host (USD)	Overall optimization (USD)	WinV Center consumption
Cluster027141	VMHost011922	32	Active	Microsoft Windows Server Standard Core	VMware ESX	VM Host	32	Windows Server and OS in scope. Less Safe approach. All VMs are treated the same. 90 Day Peak number of VMs on host (VMs = 14)	\$13,900.00	\$99,200.00	\$85,200.00	\$3,414,000.00	
Cluster027141	VMHost011923	32	Active	Microsoft Windows Server Standard Core	VMware ESX	VM Host	96	Windows Server and OS in scope. Less Safe approach. All VMs are treated the same. 90 Day Peak number of VMs on host (VMs = 14)	\$41,760.00	\$99,200.00	\$57,440.00	\$3,414,000.00	
Cluster027141	VMHost011924	32	Active	Microsoft Windows Server Standard Core	VMware ESX	VM Host	128	Windows Server and OS in scope. Less Safe approach. All VMs are treated the same. 90 Day Peak number of VMs on host (VMs = 14)	\$55,680.00	\$99,200.00	\$43,520.00	\$3,414,000.00	

Named User Licenses Consumption And Optimization

This report provides the license consumption for all named user licenses, summarized by user / license. It provides the full details on user (full name, email address, entity information) and consumption (installed, used applications consuming the licenses) and computes recommendations on subscriptions downgrades.

License: **RUN REPORT**

3,356 results returned 20 rows per page

License name	Recommendation based on installed applications (Priority 1)	Publisher	Full name	Email	Computer(s) with installations consuming the license	Value consumed (USD)	Optimal license value (USD)	Saving for user (USD)	Overall optimization (USD)	Consuming installations for the user	Consuming installations for the user with
Adobe	Recommendation based on installed applications (Priority 1): (17)	Adobe Creative Cloud - Acrobat Pro DC (60)	Adobe	BlossomAlien	blossom.alien@acme.com	Computer003466	782	710	72	\$86,827.06	FrameMaker 2017, Acrobat DC (2015)
Adobe	Recommendation based on installed applications (Priority 1): (17)	Adobe Creative Cloud - Creative Cloud All Apps (21)	Adobe	RoseTeivino	rose.teivino@acme.com	Computer012311	782	355	427	\$86,827.06	Acrobat DC (2017), LMS used on 2022-06-24

Recommendation based on installed applications (Priority 1): (1) This user has Adobe Creative Cloud All Apps AND at least one other standalone product subscription. (1)
Recommendation based on installed applications (Priority 1): (1) Priority 2: Stop the subscription: no subscribed application is installed (no computer is inventoried for this user). (1)
License name: Capivate (8)
License name: Dynamics 365 - Dynamics 365 (729)

Important information in the Windows Server Optimization Report (check optional columns)

- What inputs did you choose? Recommended:

Microsoft Windows Server Optimization

Calculates the optimal license (either Windows Server DataCenter, Windows Server Standard, Core Infrastructure DataCenter or Core Infrastructure Standard) on VMs, hosts, or stand-alone devices. Please choose the options that fit your needs.

License In Scope: Windows Server & CIS | Approach for data center VMs: Optimized | Assessment Metric: 90 Day Peak / VMs | Show Orphan VMs: Yes | **Run report**

- What are the reference licenses, exempted roles and price per core? They will influence the full optimization calculation. Default cost in USD. What matters are the Std to Dctr ratios

Reference license (CIS Dctr)	Reference license (CIS Std)	Reference license (WinSvr Dctr)	Reference license (WinSvr Std)	Exempted device roles
Microsoft CIS DataCenter Core with SA		Microsoft Windows Server Datacenter Core with SA		Cold Standby / Disaster Recovery (From Microsoft CIS DataCenter Core with SA)

Cost/core (CIS Dctr)	Cost/core (CIS Std)	Cost/core (WinSvr Dctr)	Cost/core (WinSvr Std)
\$485.00 USD	\$116.00 USD	\$385.00 USD	\$67.00 USD

- What are the number of VMs per Host, number of VMs with SCCM in clusters, does the host has a VM with SCCM?

System Center on hosted VM	% VMs in cluster with System Center	System Center VMs in cluster
All		3
Yes	16.67	3

Cluster WinSvr VMs to inventory	Host's WinSvr VMs to inventory	VMs running WinSvr (any edition) to inventory
32	Is not empty	7 S175ABOBJ201, S175FZDFS200, S175PLEXM200, S175ADDDPA200, SCSESPRD0112, S175PSPLC200, S175PTMCT201

- Are there VMs to inventory?

AVAILABLE
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View Microsoft Windows Server optimization report IT ASSET MANAGEMENT

Computes the optimal license based on chosen metrics

Allows selection of the optimization approach

Provides explanation for the choice

Gives details on saving allowed by the report (for the host and global)

Reporting / Saved Reports & Views / Saved Reports

Microsoft Windows Server Optimization

Calculates the optimal license (either Windows Server DataCenter, Windows Server Standard, Core Infrastructure DataCenter or Core Infrastructure Standard) on VMs, hosts, or stand-alone devices. Please choose the options that fit your needs.

License In Scope Windows Server & CIS Risk Approach Less Safe Assessment Metric 90 Day Peak Show OrphanVMs Yes **Run Report**

Device type is VM Host

48 results returned 20 rows per page

Search...

Export

<input type="checkbox"/>	Cluster name	Device name	Cores	Device status	Optimal license	Operating system	Device type	Consumed cores	Comment on optimization	Value consumed (USD)	ESX cost (Datacenter) (USD)	Saving for host (USD)	Overall optimization (USD)
<input type="checkbox"/>	Cluster267141	VMHost0011922	32	Active	Microsoft Windows Server Standard Core	VMware ESXi	VM Host	32	Windows Server and CIS in scope. Less Safe approach: All Vms are treated the same. 90 Day Peak number of VMs on host.(VMs <14)	\$13,920.00	\$99,200.00	\$85,280.00	\$3,414,880.00

Licensing SQL VMs the optimal way

- The solution chooses and documents the best option:
 - License the full host for all VMs with Enterprise Edition
 - All VMs on a host with Standard edition
 - Each VMs with Standard or Enterprise

Reporting / License Reports / Microsoft SQL Server Optimization

Microsoft SQL Server Optimization

Calculates the optimal license for either SQL Server Enterprise Edition or Standard Edition covering hosted VMs, orphan VMs (where the license is not assigned to a device).

Search

53 results returned 20 rows per page

Search... Export

Recommended license (host) ▲

<input type="checkbox"/>	Cluster name ▲	Device name	Device status	Optimal license	Device role	Device type	Consumed cores	ESX cost (SQL Enterprise) (USD)	Value consumed (USD)	Saving for host (USD)	Current SQL license	Overall optimization (USD)
⊕ Recommended license (host): (29)												
⊖ Recommended license (host): Consider licensing each VM individually! (12)												
<input type="checkbox"/>	Cluster157139	VMHost0024	Active	Microsoft SQL Server Enterprise Core L+SA	Production	VM Host	4	\$25,200.00	\$25,200.00	\$18,200.00	SQL Server Enterprise (Core with SA) (VMHost0024), SQL Server Standard (Core with SA) (VirtualMachine005337)	\$422.80
<input type="checkbox"/>	Cluster157139	VMHost0025	Active	Microsoft SQL Server Enterprise	Production	VM Host	4	\$25,200.00	\$25,200.00	\$9,100.00	SQL Server Enterprise (Core with SA) (VMHost0025)	\$422.80

Diagram annotations:

- Gives a licensing recommendation for the host (points to the 'Recommended license (host)' dropdown)
- Computes the optimal license for ESX servers based on costs (points to the table columns)
- Gives details on costs and saving allowed by the report (for the host and global) (points to the 'Value consumed', 'Saving for host', and 'Current SQL license' columns)

Named user subscription optimization report IT ASSET MANAGEMENT

Provides prioritized downgrade or reclamation recommendations per user / subscription

Gives details on savings allowed by the report (for the user and globally)

Analyzes installed and used applications for the user with the subscription scope

Reporting / License Reports / Named User Lic

Named User Licenses Consumption And Optimization

This report provides the license consumption for all named user licenses, summarized by user / license. It provides the full details on user (full name, email address, entity information) and consumption (installed, used applications consuming the licenses) and computes recommendations on subscriptions downgrades.

License

3,356 results returned 20 rows per page

License name	Recommendation based on installed applications (Priority 1)	Publisher	Full name	Email	Computer(s) with installations consuming the license	Value consumed (USD)	Optimal license value (USD)	Saving for user (USD)	Overall optimization (USD)	Consuming installations for the user	Consuming installations for the user with
<ul style="list-style-type: none"> License name: Adobe Creative Cloud - Acrobat Pro DC (50) License name: Adobe Creative Cloud - Creative Cloud All Apps (21) Recommendation based on installed applications (Priority 1): (17) Recommendation based on installed applications (Priority 1): Priority 1: Downgrade user plan to standalone products (based on installed products). (2) 											
Adobe	BlossomAllen	blossom.allen@acme.com	Computer008466		782	710	72	\$86,827.00	FrameMaker 2017, Acrobat DC (2015)	FrameMaker 2017 (LastUsed on 2022-06-24)	Acrobat DC (2015) (LastUsed on 2022-06-24)
Adobe	RossTrevino	ross.trevino@acme.com	Computer0012311		782	355	427	\$86,827.00	Acrobat DC (2017)	Acrobat DC (2017) (Last used on 2022-06-24)	
<ul style="list-style-type: none"> Recommendation based on installed applications (Priority 1): Priority 1: This user has Adobe Creative Cloud All Apps AND at least one other standalone product subscription. (1) Recommendation based on installed applications (Priority 1): Priority 2: Stop the subscription: no subscribed application is installed (no computer is inventoried for this user). (1) 											
<ul style="list-style-type: none"> License name: Captivate (8) License name: Dynamics 365 - Dynamics 365 (729) 											

Red Hat Optimization

- Example of high REL density server: recommended to be licensed with DataCenters

Reporting / License Reports / Red Hat Enterprise Linux License Optimization

Red Hat Enterprise Linux License Optimization

Calculates the optimal license (either Red Hat Enterprise Linux Server, or Red Hat Enterprise Linux for Virtual Datacenters) for clusters where Red Hat Enterprise Linux is running on VMs, hosts, or stand-alone devices. Each cluster must be licensed uniformly.

Search

14 results returned 20 rows per page

Optimal license ▲

<input type="checkbox"/>	Cluster name ▲	Device name	Comment on optimization	Device type	Processors	Number of cores	Device status	Device role	Operating system	Count RHEL VMs on host	Consumed points	Consumed value (USD)	Saving for host (USD)
☐ Optimal license: Red Hat Enterprise Linux for Virtual Datacenters (2)													
<input type="checkbox"/>	ClusterRHEL	VMHostRHEL01	In this cluster, the cost of using Virtual Datacenters license (18000.00) is cheaper than using Server license (25550.00)	VM Host	4	32	Active	Production	VMware ESXi	69	2	\$9,000.00	

- Example of low RHEL density: Servers edition is cheaper!

<input type="checkbox"/>	Cluster name ▲	Device name	Comment on optimization	Device type	Processors	Number of cores	Operating system	Count RHEL VMs on host	Consumed points	Consumed value (USD)	Saving for host (USD)	Host value (Datacenters) (USD)	Overall optimization (USD)
☐ Optimal license: Red Hat Enterprise Linux Server (5)													
<input type="checkbox"/>	Cluster157139	VMHost0024	In this cluster, the cost of using Server license (1225.00) is cheaper than using Virtual Datacenters license (18000.00)	VM Host	2	16	VMware ESXi	2	1	\$350.00	\$4,150.00	\$4,500.00	\$34,600.00

Oracle License Optimization on Clusters is suggested

Price is the actual entitlement price or a default 5000 price

Each row represents a cluster or un-clustered host

Installed Cores are compared to licensed cores to evaluate potential optimization

Consuming instances that can be moved are identified

Reporting / License Reports / Oracle License Optimization on Clusters

Flexera One Demo

Oracle License Optimization on Clusters

For Oracle Processor licenses (excluding those for Oracle Database Standard Edition), shows license cost savings by optimizing vCenter clusters and standalone hosts.

Search

Run Report

14 results returned 20 rows per page

Search...

Export



<input type="checkbox"/>	License name	Cost per point (USD)	Purchased	Consumed	Shortfall/Availability	Cluster/Host name	Type	Total host cores	Consuming VM cores	Total consumed for cluster/host	Value consumed for cluster/host (USD)	Optimization value (USD)	Consuming instances
<input type="checkbox"/>	Oracle Database Enterprise - Processor	\$50,000.00	90	141	-51	VLC/CLUSTER-VULCANLOGIC	Cluster	96	16	48	\$2,400,000.00	\$2,000,000.00	VMOracle3 16 Cores (VULCAN)
<input type="checkbox"/>	Java SE Advanced Server	\$218.00	375	361	14	Cluster167139	Cluster	188	10	94	\$20,492.00	\$19,402.00	
<input type="checkbox"/>	Java SE Advanced Server	\$218.00	375	361	14	Cluster337142	Cluster	96	26	48	\$10,464.00	\$7,630.00	

Oracle Licenses Consumption Details and Optimizations

Reporting / Saved Reports & Views / Saved Reports

Oracle License Consumption Details and Optimizations

Gives details of Oracle license consumption across applications, instance details, chargeback values, and optimization suggestions (for example, on virtualized architectures). Please click the Path column to restore the tree view.

Search

The full hierarchy in consumption is represented, across all Oracle licenses

For each host, installed VM cores are captured and consumption, charge back values and optimization are calculated

Consuming instances, applications are identified

6 results returned 1,000 rows per page

Search...

Export

<input type="checkbox"/>	License name	License type	Cost per entitlement (USD)	Device hierarchy	Device type	Cores	Consuming VM cores	Entitlements consumed	Chargeback points	Value consumed (USD)	Optimization value (USD)	Chargeback consumption (USD)	Suggested optimization	Consuming instance
<input type="checkbox"/>	Oracle Database Enterprise - Processor	Oracle Processor	\$50,000.00	167.17.8.75 (vcenter60)	vCenter									
<input type="checkbox"/>	Oracle Database Enterprise - Processor	Oracle Processor	\$50,000.00	----CLUSTER-VULCANLOGIC	Cluster									
<input type="checkbox"/>	Oracle Database Enterprise - Processor	Oracle Processor	\$50,000.00	-----vulesxhost01	VM Host	32		16		\$800,000.00	\$800,000.00		Priority 1 Virtualization misuse: high waste value - above 50K	
<input type="checkbox"/>	Oracle Database Enterprise - Processor	Oracle Processor	\$50,000.00	-----vulesxhost02	VM Host	32	16	16		\$800,000.00	\$400,000.00		Priority 1 Virtualization misuse: high waste value - above 50K	
<input type="checkbox"/>	Oracle Database Enterprise - Processor	Oracle Processor	\$50,000.00	-----VMOracle3	Virtual Machine	16			48			\$2,400,000.00	Cores under-used, less than 50 instances for 100 cores. Only 1 instance	VULCAN(0 active users)
<input type="checkbox"/>	Oracle Database Enterprise - Processor	Oracle Processor	\$50,000.00	-----vulesxhost03	VM Host	32		16		\$800,000.00	\$800,000.00		Priority 1 Virtualization misuse: high waste value - above 50K	

Flexera One Demo

Consuming instances	Consuming installations
Is not empty	
RFXTMS12(0 active users)	Active Data Guard 12c R1
FINASTP2(0 active users)	Active Data Guard 11g
SAGEP2(0 active users)	Active Data Guard 11g

Financial impact of partitioning rules is computed

What FNMS Licenses calculate

Various simulations depending on soft partitioning applied

Compare incremental cost (or saving) for each partitioning option

Reporting / Saved Reports & Views / Saved Reports

Oracle Consumption Summary by Partitioning Rule

Evaluates all Oracle Processor licenses for both total points consumed and costs, under the various rules that allow partitioning at the cluster, at the vCenter, or across all vCenters; or creating a hard partition at the ESX virtual host.

Search

15 results returned 20 rows per page

Search...

<input type="checkbox"/>	License name	Publisher	License type	Cost per entitlement (EUR)	Purchased	Points (cluster partition)	Points (ESX partition)	Points (vCenter partition)	Points (all vCenters partition)	Increment cluster to vCenter (EUR)	Increment vCenter to all vCenters (EUR)	Increment ESX host to cluster (EUR)
<input type="checkbox"/>	Oracle ULA Business Intelligence Foundation Suite (processor)	Oracle	Oracle Processor	€118,395.00	8,816	1,023	573	2,016	10,781	€117,566,235.00	€1,037,732,175.00	€53,277,750.00
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	Oracle	Oracle Processor	€45,000.00	6,928	4,314	3,192	5,983	12,441	€75,105,000.00	€290,810,000.00	€50,490,000.00
<input type="checkbox"/>	Oracle ULA WebLogic Suite (Processor)	Oracle	Oracle Processor	€14,208.00	2,437	1,180	680	1,761	10,721	€8,539,008.00	€127,303,680.00	€6,819,840.00
<input type="checkbox"/>	Oracle ULA OLAP (Processor)	Oracle	Oracle Processor	€9,077.00	574	288	288	288	10,737		€94,845,573.00	€0.00
<input type="checkbox"/>	Oracle ULA Data Integrator EE - Transformation (Processor)	Oracle	Oracle Processor	€8,169.00	1,924	1,430	847	2,455	11,028	€8,373,225.00	€70,032,837.00	€4,762,527.00
<input type="checkbox"/>	Oracle ULA Advanced Security (Processor)	Oracle	Oracle Processor	€6,000.00	1,111	445	154	924	10,477	€2,874,000.00	€57,318,000.00	€1,746,000.00
<input type="checkbox"/>	Oracle ULA Active Data Guard (Processor)	Oracle	Oracle Processor	€5,000.00	1,562	1,225	661	2,040	10,805	€4,075,000.00	€43,825,000.00	€2,820,000.00
<input type="checkbox"/>	Oracle ULA Real Application Clusters (Processor)	Oracle	Oracle Processor	€3,947.00	752	294	280	640	10,715	€1,365,662.00	€39,766,025.00	€55,258.00
<input type="checkbox"/>	Oracle ULA Tuning Pack (Processor)	Oracle	Oracle Processor	€1,974.00	3,652	1,941	1,131	2,652	11,067	€1,403,514.00	€16,611,210.00	€1,598,940.00

Oracle Partitioning Rules Impact are provided

The full hierarchy in consumption is represented, across all Oracle licenses

Various simulations depending on soft partitioning applied

Consuming instances, applications are identified

Reporting / License Reports / Oracle Partitioning Rule Impacts

Oracle Partitioning Rule Impacts

For Oracle Processor licenses, compares the consumption impact of different soft (and hard) partitioning rules: soft partitioning at the cluster, at each vCenter, for all vCenters; or hard partitioning for each VMware ESX host.

vCenter name ▲ Cluster name ▲

<input type="checkbox"/>	License name	Cost per entitlement (EUR)	Device hierarchy	Device type	Device status	Allocated	Exemption reason	Operating system	Cores	Capped cores	Points (cluster partition)	Points (vCenter partition)	Points (all vCenters partition)
Oracle ULA Database Enterprise (Processor)													
vCenter name: 172.17.199.220 (i08199220) (4)													
Cluster name: Cluster_consolidacion_5 (3)													
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----conso5server1	VM Host	Active	No		VMware ESXi 5.5.0	8	0			4
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----conso5server2	VM Host	Active	No		VMware ESXi 5.5.0	8	0			4
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----conso5server3	VM Host	Active	No		VMware ESXi 5.5.0	8	0			4
vCenter name: 172.20.148.100 (orajy001) (34)													
Cluster name: CL-PROD-CENTRAL-BI (5)													
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----esxjy015	VM Host	Active	No		VMware ESXi 5.5.0	32		16		
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----Inxjy275	Virtual Machine	Active	No		Red Hat Enterprise Linux ES 5.11	4				
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----Inxjy302	Virtual Machine	Active	No		Red Hat Enterprise Linux ES 5.11	32				
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----Inxjy303	Virtual Machine	Active	No		Red Hat Enterprise Linux ES 5.11	16				
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----esxjy016	VM Host	Active	No		VMware ESXi 5.5.0	32		16		
Cluster name: CL-PROD-ESSBASE (2)													
<input type="checkbox"/>	Oracle ULA Database Enterprise (Processor)	€45,000.00	-----esxjy037	VM Host	Active	No		VMware ESXi 5.5.0	16				8

Consuming instances	Consuming installations
Is not empty	
RFXTMS12(0 active users)	Active Data Guard 12c R1
FINASTP2(0 active users)	Active Data Guard 11g
SAGEP2(0 active users)	Active Data Guard 11g

Optimum target architecture recommendation

VM details

You can peak up the grouping level

The list of options installed and used will determine the cluster specialization

The optimal number of cores of the cluster is the sum of cores of VMs

Even within the VM, the report finds possible instances moves for optimizations

Detailed recommendations are provided

Optimum Virtualized Architecture for Oracle Options

Proposes improved architecture based on soft partitioning in VMware environments, optimizing costs for all installed, activated, and licensable Oracle options. VMs with consistent options are grouped for clusters, with suggested core assignments. Optionally, control cluster location grouping VMs with a selected location. The list of options installed and used will determine the cluster specialization. The optimal number of cores of the cluster is the sum of cores of VMs. Even within the VM, the report finds possible instances moves for optimizations. Detailed recommendations are provided.

Location grouping Across all locations

RUN REPORT

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Drag a column header here to group by that column

Suggested optimization

Savings could be obtained by clustering together VMs with consistent installed and used options. Licensing could be reduced by 964 cores. Diagnostics Pack EUR4,336,364, Oracle Database Enterprise EUR25,666,830, Tuning Pack EUR7,167,543. Total saving from current to target architecture: EUR42,220,324

<input type="checkbox"/>	VM name	Cores	Host name	Cluster name	Cluster cores	Cluster cores with same options	Suggested cluster	Recommended cluster cores	Oracle options in use	Instances with all options	Instances with fewer options
<input type="checkbox"/>	arrsnew	20	esx-gts-1	Cluster XXX	56	136	Cluster - Active Data Guard, Diagnostics Pack, Partitioning, Tuning Pack	56	Active Data Guard, Diagnostics Pack, Partitioning, Tuning Pack	ARRS (4)	
<input type="checkbox"/>	lrsnew	28	esx-gts-2	Cluster XXX	56	136	Cluster - Active Data Guard, Diagnostics Pack, Partitioning, Tuning Pack	56	Active Data Guard, Diagnostics Pack, Partitioning, Tuning Pack	LRS (4)	
<input type="checkbox"/>	sirius-db-replica	6	esx-gts-2	Cluster XXX	56	426	Cluster - Advanced Compression	24	Advanced Compression	WLDB (1)	
<input type="checkbox"/>	sirius-db	12	esx-gts-2	Cluster YYY	56	296	Cluster - Advanced Compression, GoldenGate, Partitioning	16	Advanced Compression, GoldenGate, Partitioning		WLDB (2)
<input type="checkbox"/>	arrs_wh	16	esx-gts-1	Cluster YYY	56	1,437	Cluster - Diagnostics Pack, Partitioning, Tuning Pack	270	Diagnostics Pack, Partitioning, Tuning Pack	ARRSWH (3)	
<input type="checkbox"/>	optimix-db-ro	16	esx-gts-1	Cluster YYY	56	1,437	Cluster - Diagnostics Pack, Partitioning, Tuning Pack	270	Diagnostics Pack, Partitioning, Tuning Pack	OPTIMIX (3)	
<input type="checkbox"/>	sirirac1	8	esx-gts-2	Cluster YYY	56	56	Cluster - Diagnostics Pack, Real Application Clusters, Tuning Pack	16	Diagnostics Pack, Real Application Clusters, Tuning Pack	siri1 (3)	-MGMTDB~CDB_ROOT (2)

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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