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Using Machine Learning in Software License Discovery for Greater SAM Maturity September 13, 2017





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Hosted By



Jim Copio Manager Whitlock Infrastructure Solutions Carolinas LUG Leader Operations Bridge (Ops Bridge) SIG Leader

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Today's Speakers:

Today's Speakers:





Bill Dyck Product Manager Configuration Management System Micro Focus

Nick Rendall Product Marketing Manager Configuration Management System Asset Management Micro Focus



Webinar Housekeeping



- This "LIVE" session is being • recorded
- Recordings are available to • all Vivit members

•

To enlarge the presentation screen, click on the rectangle in the upper right hand corner of the Presentation pane



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LANGUAGE SELECTOR



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Smart Software Analytics

Software Asset Management Overview and Demo

September 2017

Agenda

- Overview of Software Asset Management
- SAM Continuous Improvement
- Smart Software Analytics
- Smart Software Analytics Walk-Through
- Micro Focus Capabilities for Discovery

Software Asset Management Poll

- How does your enterprise handle software license recognition and teaching today?
 - 1. We don't do software recognition and teaching
 - 2. We rely completely on our vendor to provide us with current software signatures
 - 3. We rely on dedicated people ("Librarians") that manage our software recognition and teaching
 - 4. We rely on a mix of vendor-provided information and the output from our own "Librarians"
 - 5. Not sure



Software Asset Management

Asset Management is part of an eco system



Information owned by each system but is shared with the Asset Management tool

Industry ITAM Goals for FY16 and Beyond

IT Asset Management Goals

What are the top ITAM program goals for 2016 and beyond? Select all that apply.

Goals	Percent
Improving software license compliance	77.7%
Increased inventory accuracy/control	71.9%
Improving processes within ITAM area of responsibility	63.0%
Improving coordination between departments, end users and others that impact the asset lifecycle	54.1%
Improve reporting and other deliverables for compliance/governance other than software licensing	52.4%
Increasing employee awareness and cooperation	50.3%
Expanding the software titles proactively managed for compliance	45.2%
Budget management/uncovering savings	44.2%
Increasing management awareness or buy-in	42.5%
Supporting IT service management	41.4%
Improving end-of-life processes	40.8%

Software License Optimization (SLO)

AM Browser



SACM

Software Asset Management (SAM)

Solution overview

Proactive software licence compliance

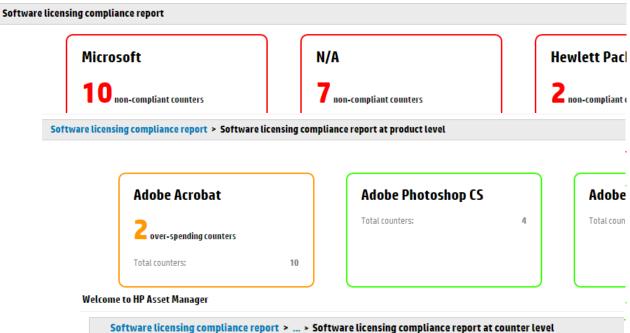
- Full understanding of the current license position
- Mitigate exposure in compliance audits

Avoid over/under purchasing

- Insight into software owned and used
- Re-harvest and reallocate unused software licenses
- Apply entitlements to reduce licenses

Reduce maintenance costs

• Cancel maintenance for unneeded licenses



Name	License Metrics	Effective License	Licenses Deployed	License Vs. Deploment	License Upgra
Adobe Acrobat 9 Std	Machine	4	0	4	-4
Adobe Acrobat 9 Pr	Machine	5	1	4	-5
Adobe Acrobat 9 Pro	Machine	8	3	5	4
Adobe Acrobat 8 Std	Machine	4	2	2	0
Adobe Acrobat 8 Pro	Machine	5	1	4	-4
Adobe Acrobat 3D 8	Machine	5	0	5	-5
Adobe Acrobat 11 Std	Machine	0	0	0	0
Adobe Acrobat 11 Pro	Machine	0	0	0	0
Adobe Acrobat 10 Std	Machine	2	0	2	-2
Adobe Acrobat 10 Pro	Machine	2	0	2	-2

Examples of licensing models

Automated compliance for the many complex licensing models

Oracle

- Processor core factor table (Enterprise edition)
- Socket based (Standard, Standard One)
- Named user plus

Microsoft

- MS SQL server core license, user and device Cals
- Office, Desktop apps: Right of second use (on mobile device)
- Windows Server: Virtualized environment use rights

IBM

 Processor Value Unit (PVU) license consumption, subcapacity virtualization rule

General rules across vendors

- upgrade/downgrade rights
- multiple versions usage
- maintenance renewal

Further supported vendors

Adobe, SAP, VMware, Autodesk, Symantec, BMC and HP



Processes for Software Asset Management

1. Understand Current State

- Deploy discovery tools
- Normalize data
- Gradually expand scope

2. Prove Compliance

- Deploy Counters
- Reconcile counters to entitlements
- Remove or purchase software

3. Establish Governance

- Convene cross-functional governance team
- Define DSL titles
- Create provisioning processes

4. Continuously Improve

- Track contracts
- Improve ITAM and procurement processes
- "Teach" discovery tools 💥





Smart Software Analytics

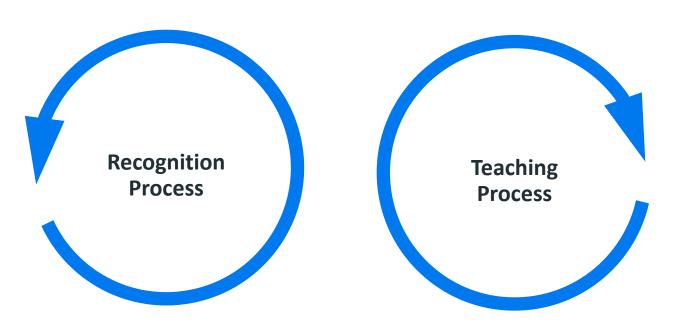
The need for Continuous Improvement

To be successful with your SAM solution requires that you're successful with the data collection, and the continuous improvement of that data collection.



Recognition Process

- Compares software inventory against predefined signatures to "recognize" software titles
- Very Automated
- Constrained to what is known
- High volumes of data and files

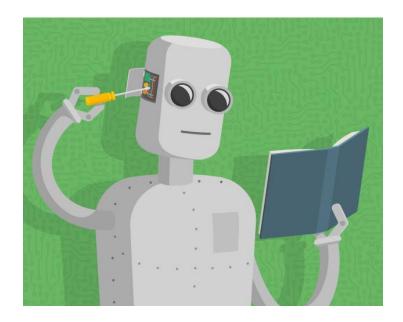


Teaching Process

- Creates new signatures using discovered software inventory details
- Typically Very Manual
- Poorly connected to recognition process
- High knowledge requirements of software librarians

Smart Software Analytics (SSA)

Take a giant step forward in the Software Teaching & Recognition domain, automating the majority of the "teaching" processes necessary for software asset management continuous improvement



SSA introduces the big data concepts of **Machine Learning** and **Natural Language Processing** to software teaching, to simplify the process of adding recognition of new titles to your software inventory library

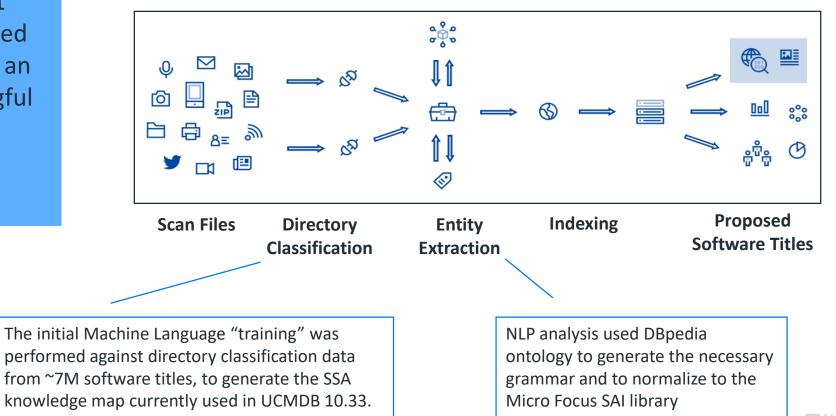
The role of IDOL and Machine Learning in SSA

"HPE IDOL can analyze whatever you throw at it."

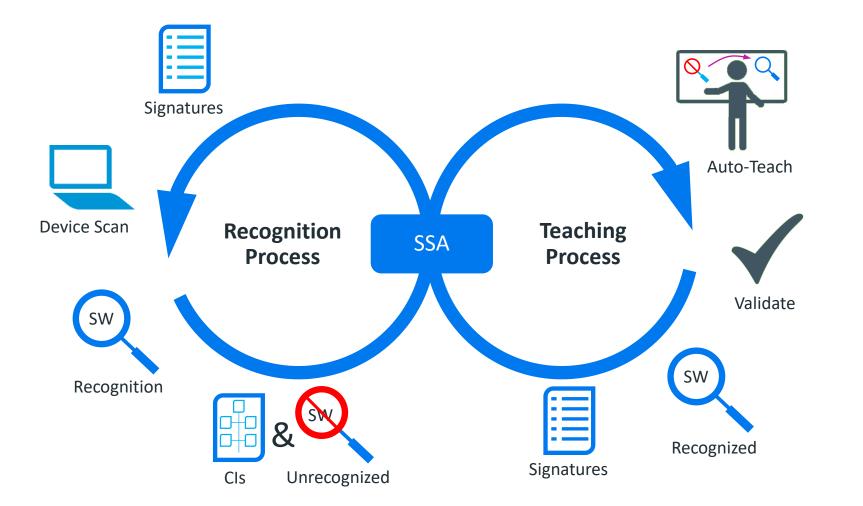
Industry-leading unstructured search engine - 2017 Forrester

SSA takes advantage of the fact that software is typically exposed in a way that can be treated as an entity associated with meaningful text data such as publisher names, file names, directory names and install strings

IDOL knowledge flow

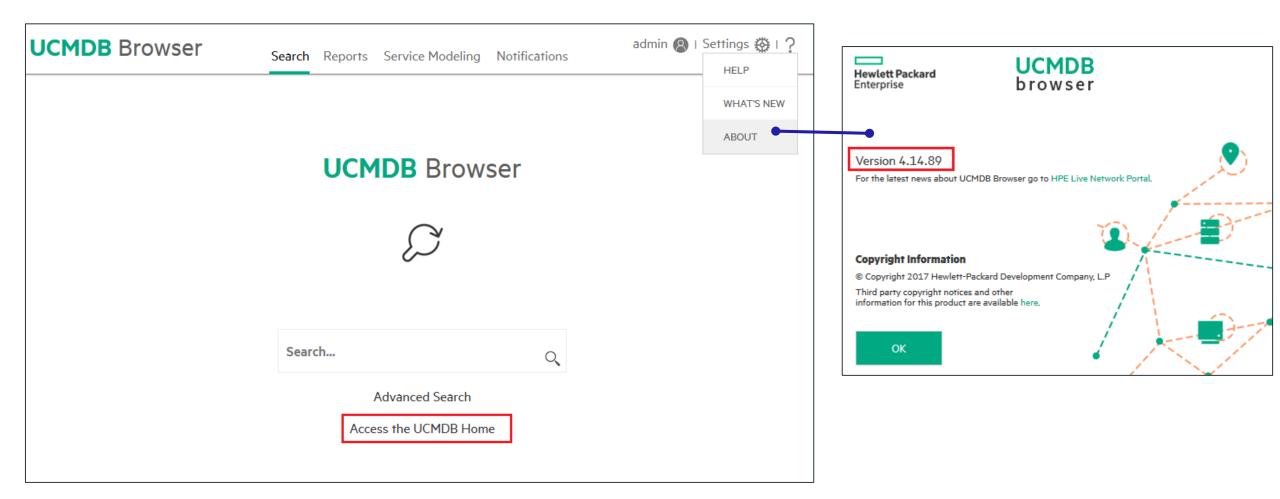


Smart Software Analytics Combines and Automates

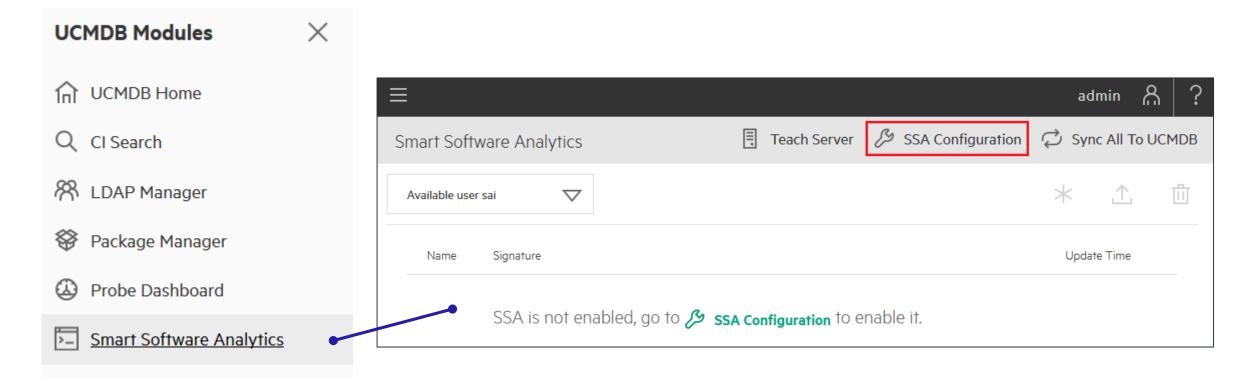




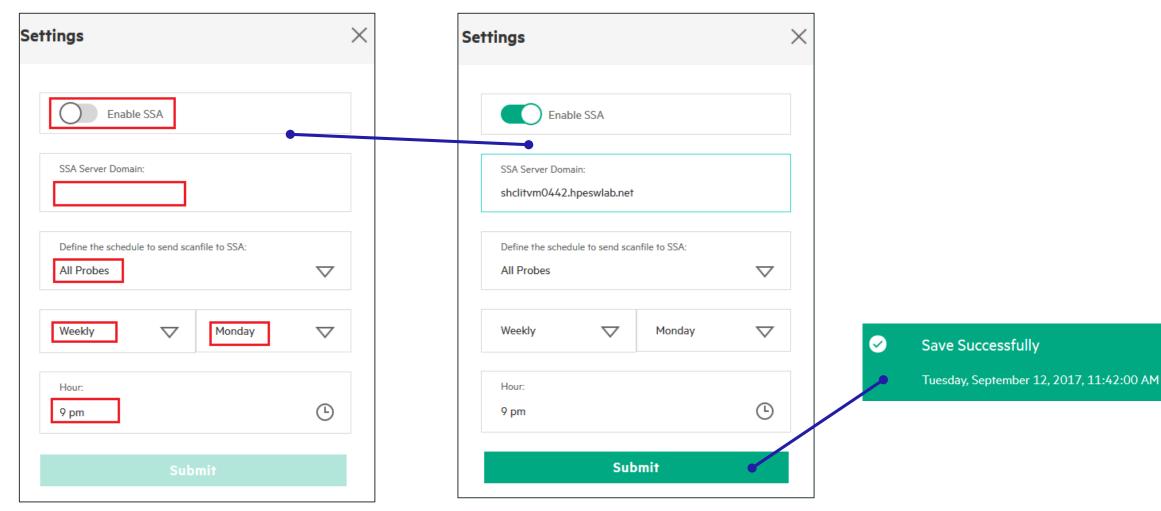
Logging into UCMDB Browser 4.14



Access UCMDB Home, and Smart Software Analytics



Configure Smart Software Analytics and Save

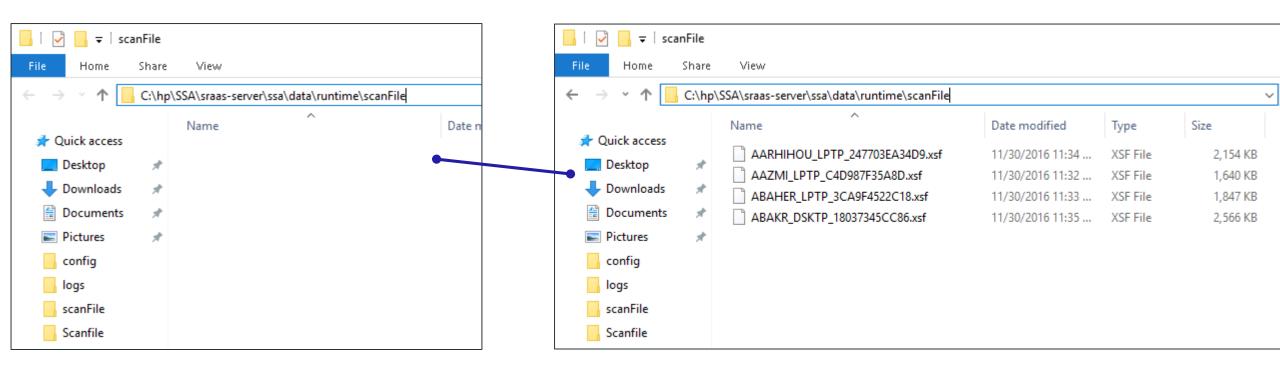


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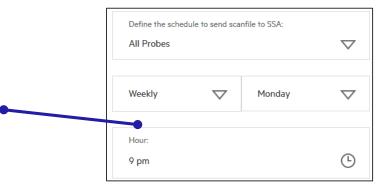
Smart Software Analytics in Ready mode

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Name	Signature	Update Time			
<i>i</i> No Results					
0 User sai chosen 0 Signature included 0 sai in total			Push to UCM	IDB	

Scan files (*.xsf) Uploaded to SSA



SSA is configured to collect scan files from each probe on a schedule you configure



Teaching Process

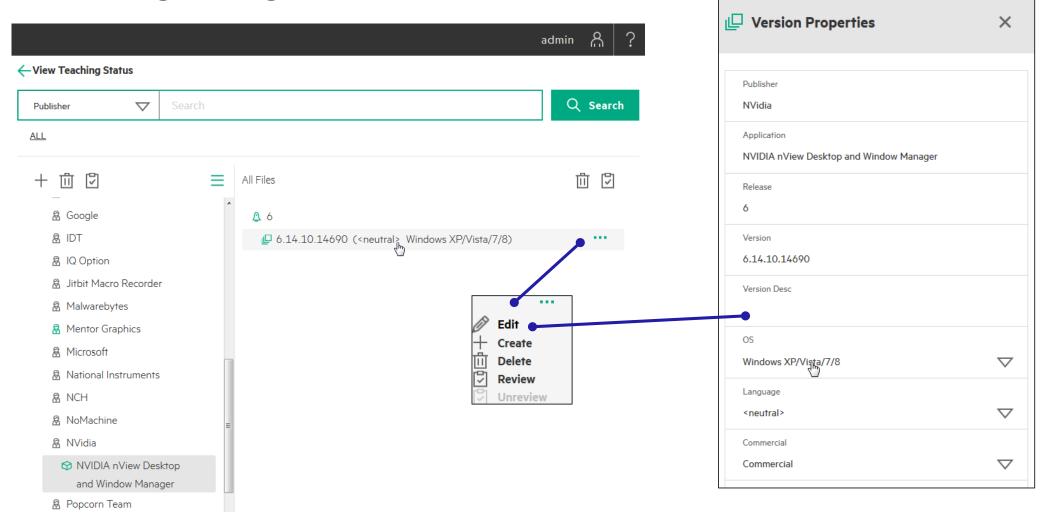
existing SAI for baseline

Process Scan Files versus known software titles

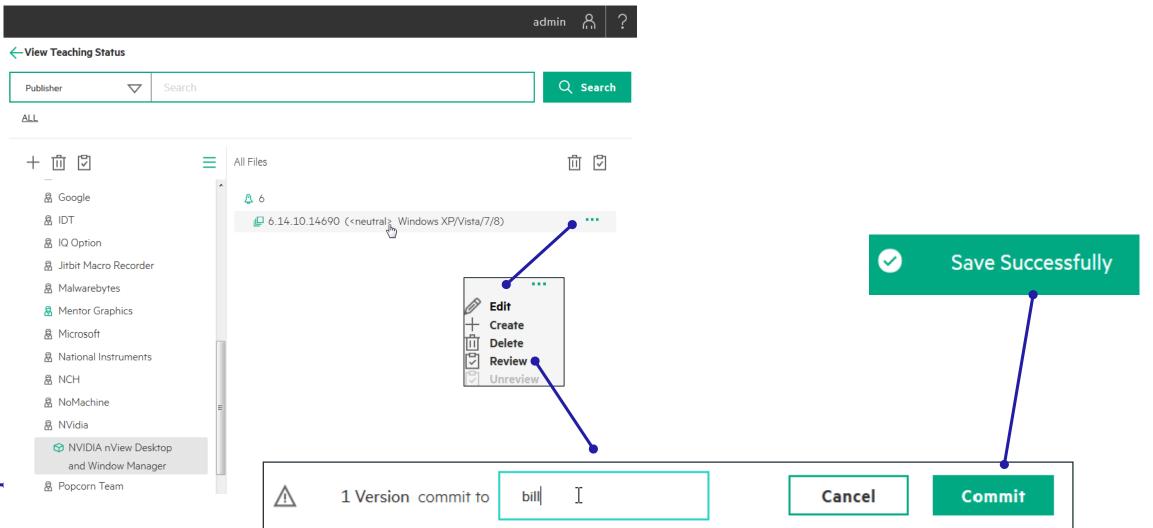
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Selecting Packages to Edit



Selecting Packages to Edit



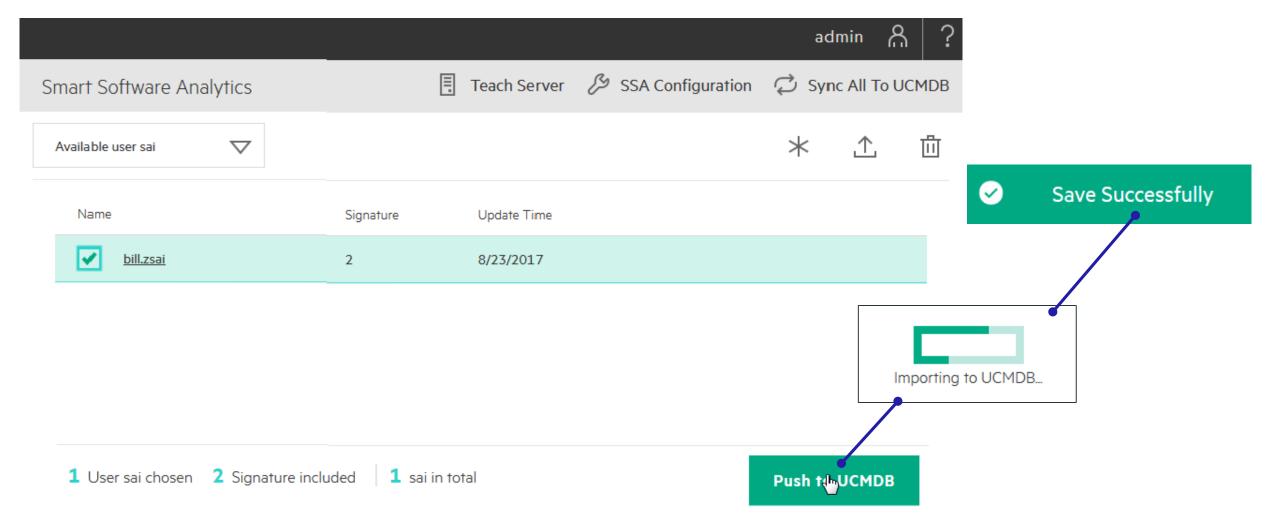
Adding more packages to existing SAI files

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Final SAI package ready to go

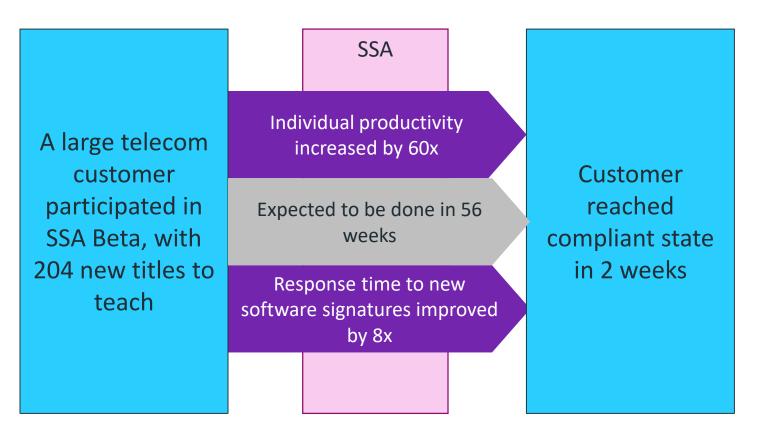
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Saving SAI and Pushing to UCMDB

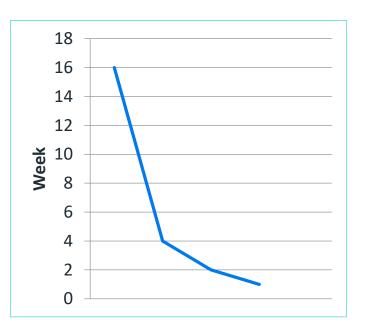


Software Asset Management View Teaching Status Software Application Index (SAI) Editor **Before and After SSA** File Edit Tools Help Manually enter the 🎦 🔒 🚳 🔊 🗟 Master.zsai: All Contents Files | Package Rules | Version Data Rules | Application T July Master SAI - 30/06/... Item Probe Probe Size Signat title, so UCMDB ordwolfeteb debaou land lio auto.zsai: Log in Sector find the scale of the d Software Explore License Relations k Automated Application I... Edit Application Rules user-1.zsai: recognize it Delete Del User SAI File New Item... Ctrl+N created Automated Relationship to Application Properties Scan Scan File File **Review and approve** & Adobe △ 46 x64 the teaching results Alps Electric Andy OS NEW Andy 🔗 AppWork GmbH Gathe SSAn files E Teach Server 🤌 SSA Configuration 🖒 Sync All To UCMDB Smart Software Analytics 🕞 🚺 🔻 sai File Share View into a single location Home Automated 🚹 « SAIEditor 🕨 sai v C (←) T. \mathbf{T} Scan Files Name 🔆 Favorites and move it to 🔲 Desktop user-1.zsai 🗼 Downloads user-1.zsai.bak Automated 📃 Recent places

Customer Results using SSA



Improved Response



Auto-teaching reduced the time required to analyze and develop new software signatures

Micro Focus Configuration Management

Configuration Management System (CMS)

Industry's best combination of bottom up and top down discovery and modeling

Intuitive web browser interface

Easy access to all CMS data

Single tool

Federated CMDB, discovery, inventory and dependency mapping

Automated Discovery

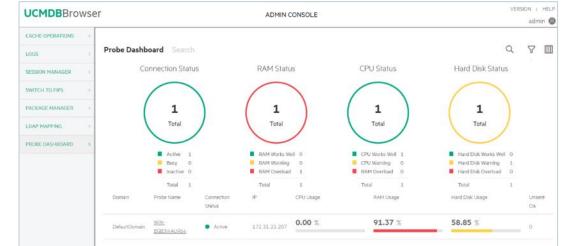
Cloud and on premise Top-down and bottoms-up Agent-based, agent-less, hybrid, and passive

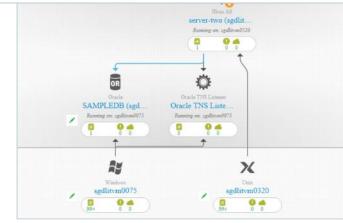
Automated service modeling

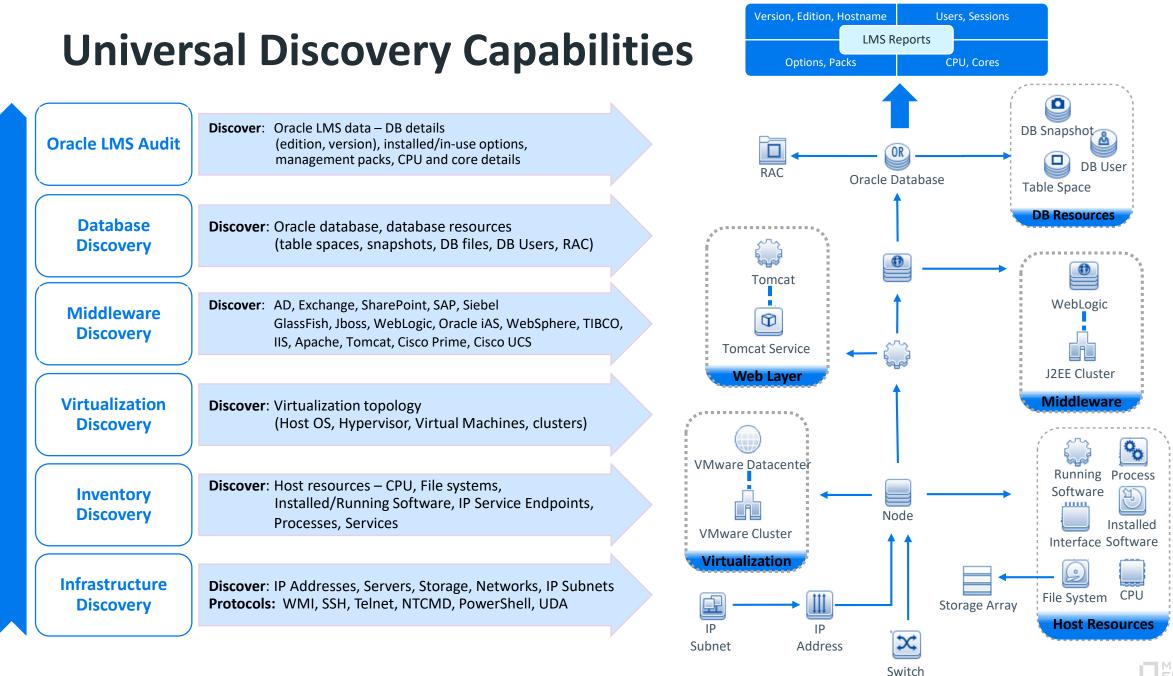
Easy, fast dependency modeling to a top-down model of a business service

Common platform integration

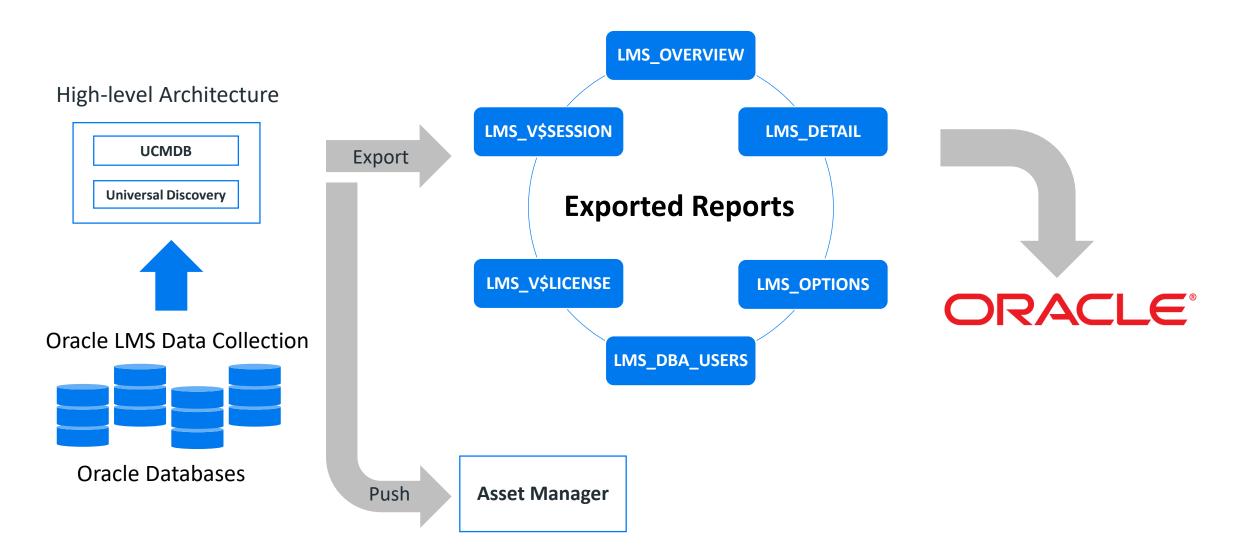
across ITOM tools





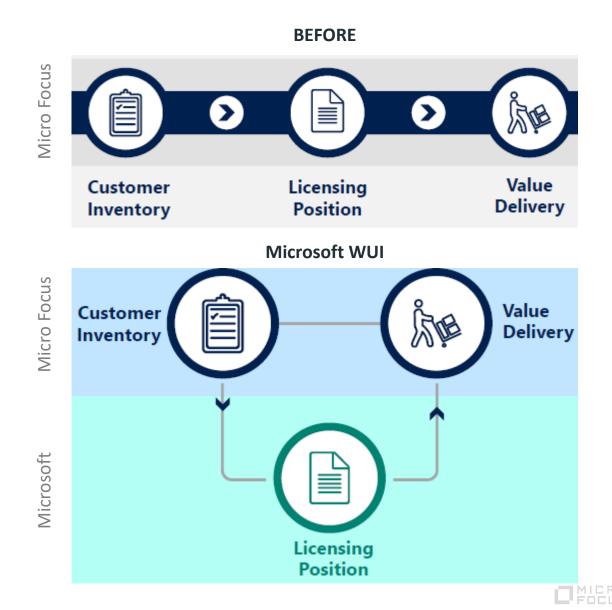


Universal Discovery for Oracle Licensing



Microsoft Workspace Universal Inventory (WUI)

- WUI is a program led by Microsoft to allow its partners to focus on value delivery, while Microsoft focuses on license validation
- Upon initial release in Fall, 2017, Micro Focus will support the direct integration between Microsoft WUI and UCMDB, allowing UD to push discovered Microsoft software inventory data into WUI.



Upcoming Vivit Webinars

September 19, 2017 Introducing the Network Operations Management Suite from Micro Focus 9:00 - 10:00 AM PDT (Los Angeles), 12:00 - 1:00 PM EDT (New York), 18:00 - 19:00 CET (Frankfurt) http://www.vivit-worldwide.org/events/EventDetails.aspx?id=1003504&group=

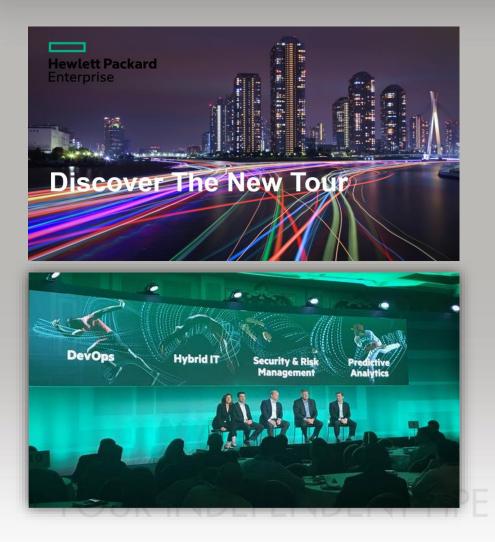
September 21, 2017 Accelerate the BusDevOps Cycle with Storyteller and ALM 8:00 - 9:00 AM PDT (Los Angeles), 11:00 AM - 12:00 PM EDT (New York), 17:00 - 18:00 CET (Frankfurt) http://www.vivit-worldwide.org/events/EventDetails.aspx?id=998630&group=

September 27, 2017 What's New in ALM - Enhancing your team's efforts to deliver amazing Apps 9:00 - 10:00 AM PDT (Los Angeles), 12:00 - 1:00 PM EDT (New York), 18:00 - 19:00 CET (Frankfurt) http://www.vivit-worldwide.org/events/EventDetails.aspx?id=1003058&group=

October 11, 2017 **Why Boeing, Vodafone, SPAR and many others love Operations Bridge and What's New** 9:00 - 10:00 AM EDT (New York), 15:00 - 16:00 CET (Frankfurt), 18:30 - 19:30 IST (New Delhi) <u>http://www.vivit-worldwide.org/events/EventDetails.aspx?id=1005884&group</u>=



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14 locations

weeks

REGION	LOCATION	DATE
EMEA	London	September 7
EMEA	Paris	October 10
EMEA	Frankfurt	October 12
EMEA	Dubai & Abu Dahbi	September 18- 20
AMS	Washington DC- Protect	September 11
AMS	New York- ADM Forum	September 14
AMS	Ottawa Government Summit	September 20
AMS	Dallas	September 26
AMS	Toronto	September 27
AMS	New York Roundtable	September 28
АРЈ	Sydney	September 11
АРЈ	Singapore	September 13
АРЈ	Токуо	October 3
АРЈ	Mumbai	October 5

Thank you

• Complete the short survey and opt-in for more information from Micro Focus

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Thank You vivit-worldwide.org



