Business Service Management on System z aligns business and IT

Clayton Ching, Senior Product Manager, Tivoli Business Service Management, IBM Software Group

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Agenda

- **Discovery & Asset Mgmt Business Drivers**
- **IBM Software Asset Management Overview**
- **IBM Solutions:**
  - Tivoli Asset Discovery for z/OS
  - SmartCloud Control Desk
- **Benefits and Discussion**

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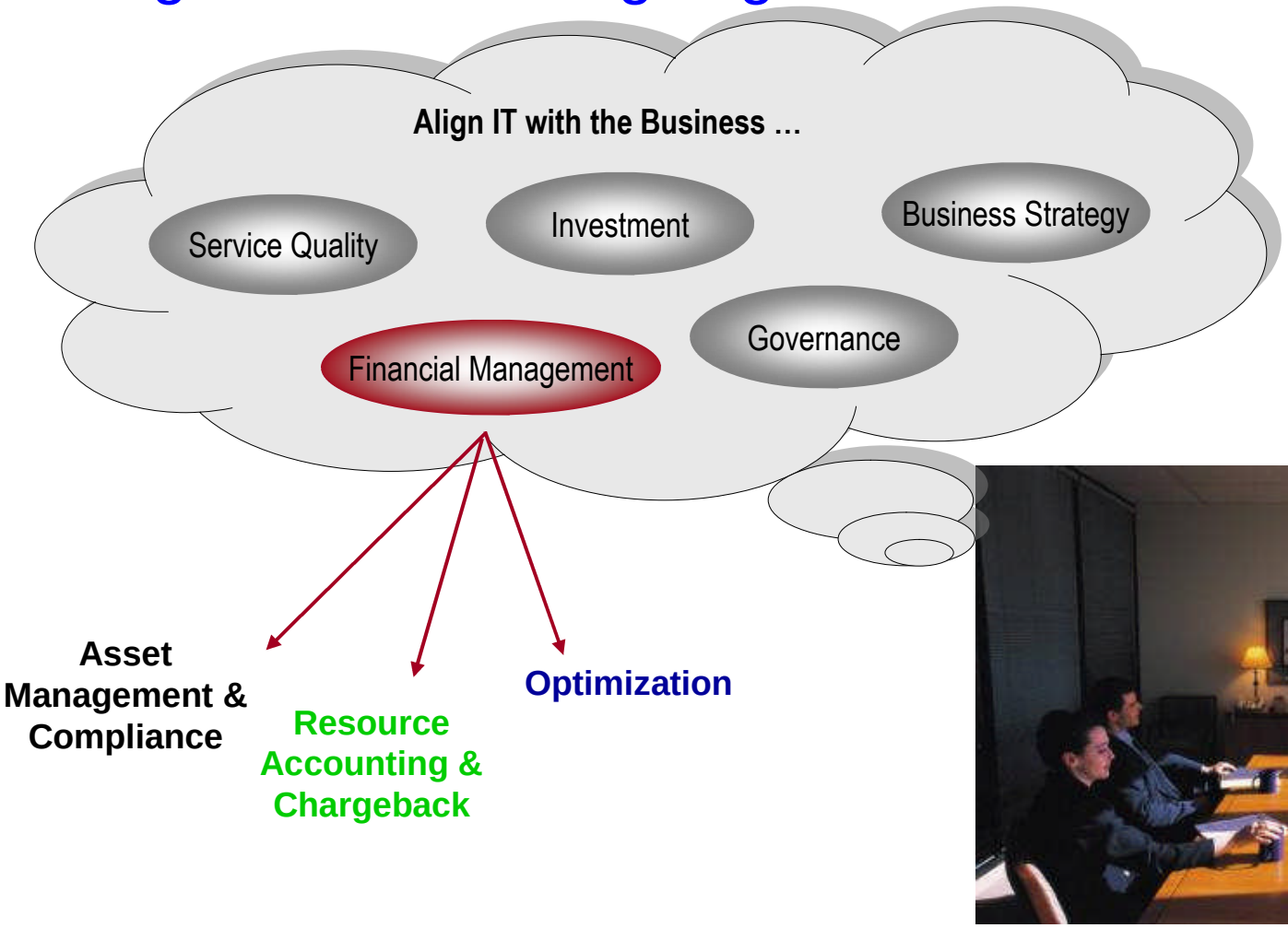
Increased focus on IT Asset and Financial Management when aligning IT with Business Goals.



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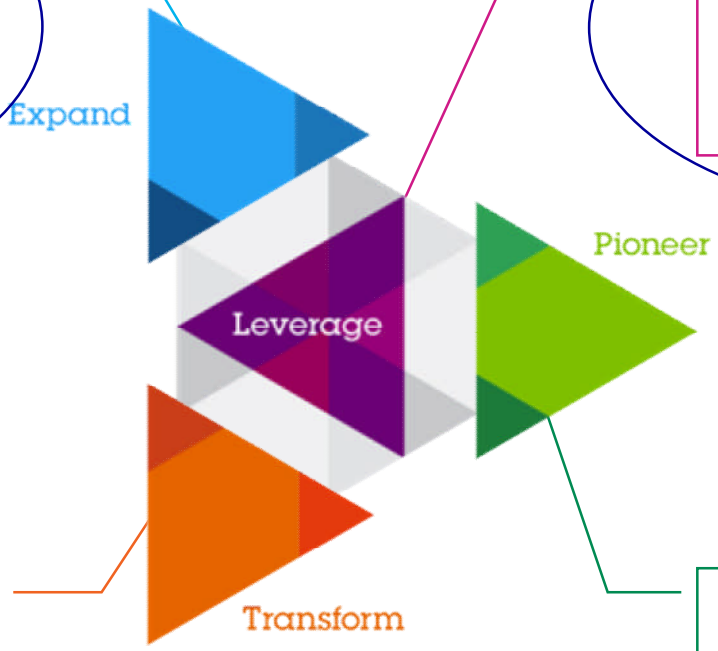
CIO mandates come with distinct characteristics that line up with the organization's goals and strategy

Expand Mandate

Refine business processes and enhance collaboration



Leverage Mandate

Streamline operations and increase organizational effectiveness

Transform Mandate

Change the industry value chain through improved relationships

Pioneer Mandate

Radically innovate products, markets, business models

IBM CIO Study – 3,000 + face to face interviews

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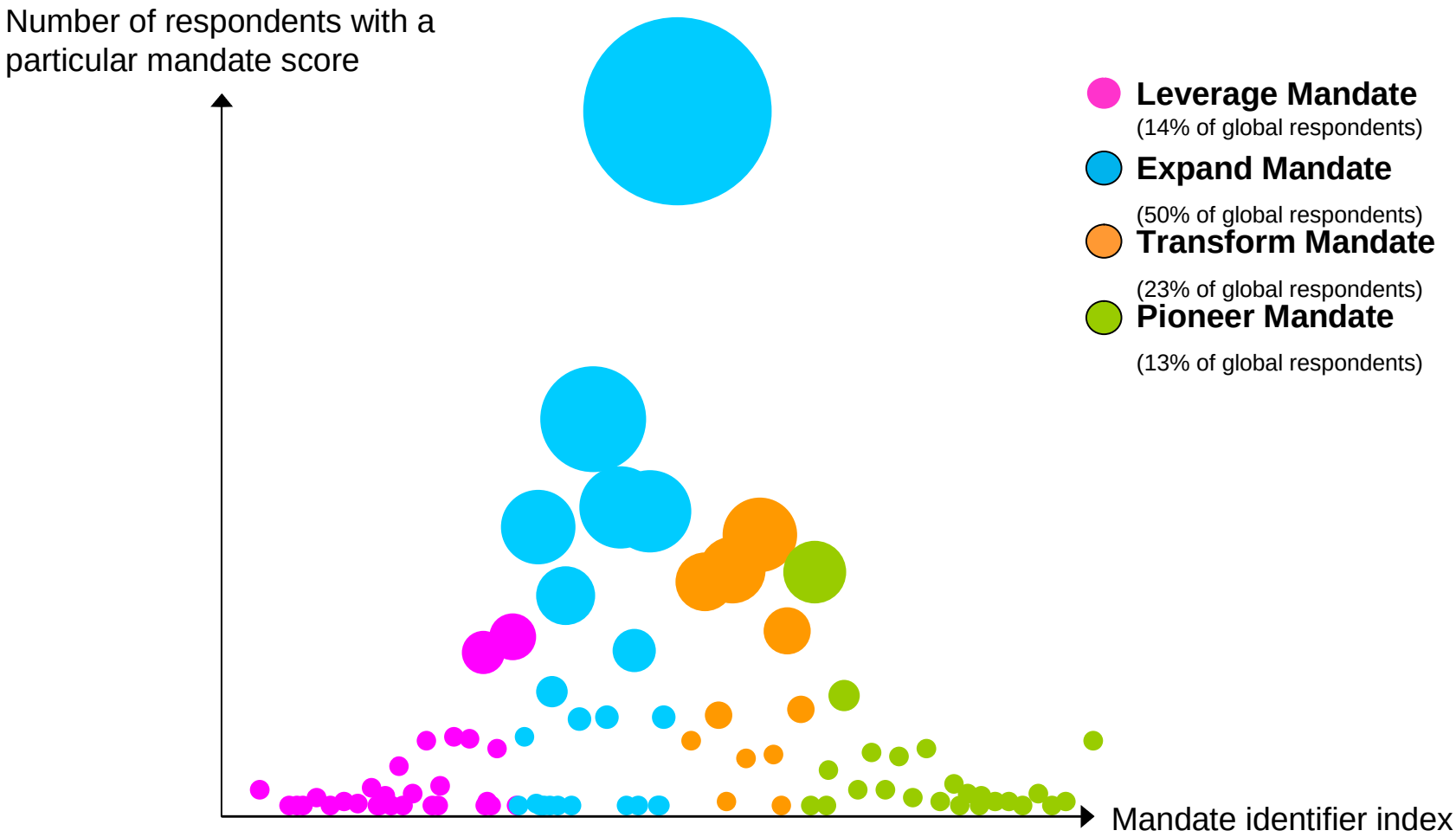
Iterative analysis of CIO answers identified the response distribution across all mandates



Source: 2011 CIO Study, Questions D1 to D4: "How does your business look at the role of IT?" (n=3,018): IBV Analysis

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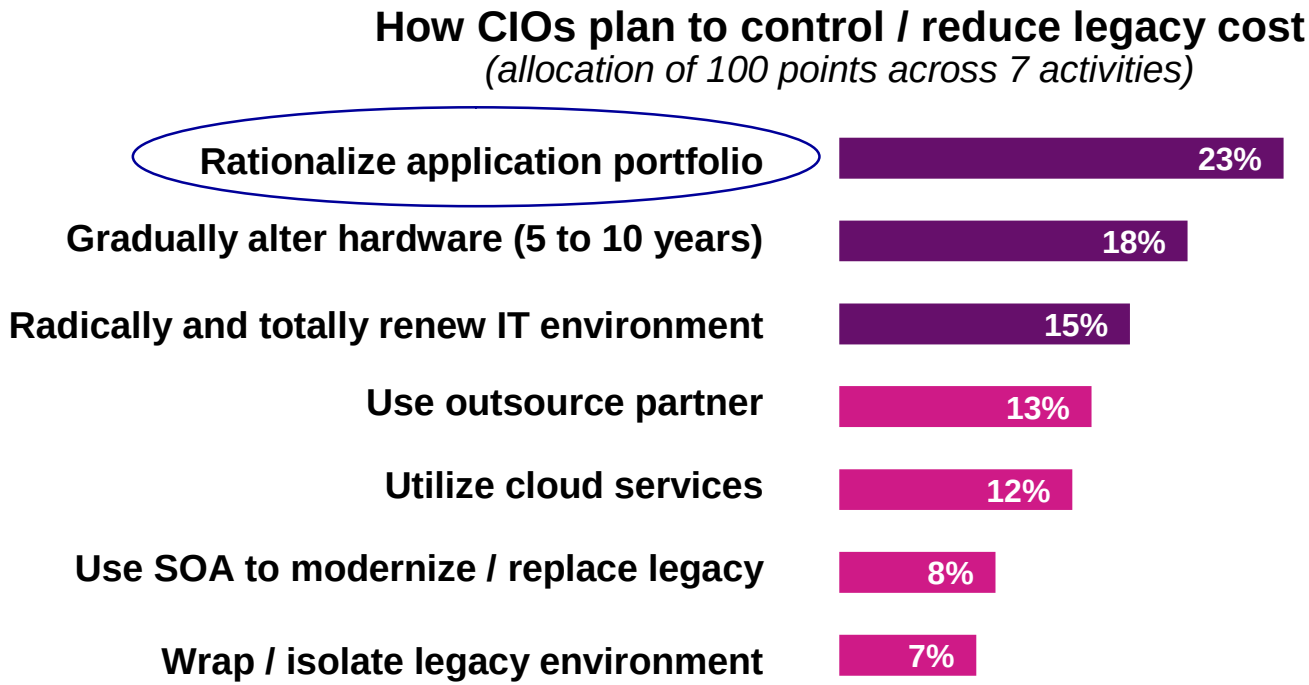
Leverage Mandate CIOs continually review legacy environment, including hardware and application portfolio



Source: 2011 CIO Study, Q16: "How do you plan to control and/or reduce the costs of your Legacy environment in the next 3 to 5 years?" (n=2,417); percentages represent average percentage; figures may not total to 100% as "Other" priorities have not been included

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Why is Software Asset Management (SAM) Important?

IT Service Management

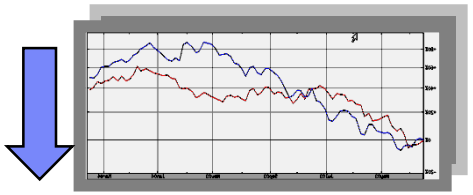
IT Asset Management

Hardware

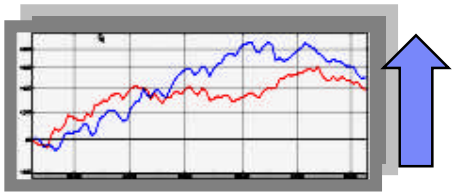
Software

Contracts/ Licenses

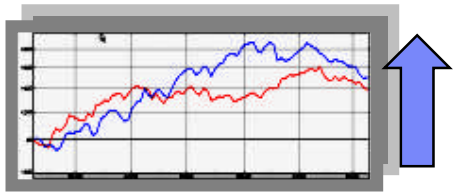
Software Asset Management



HW Cost Trends



SW Cost Trends



Labor Cost Trends

Enterprises that begin an asset management program experience up to a 30% reduction in costs the first year.. and continue savings of 5-10% for the next 5 years

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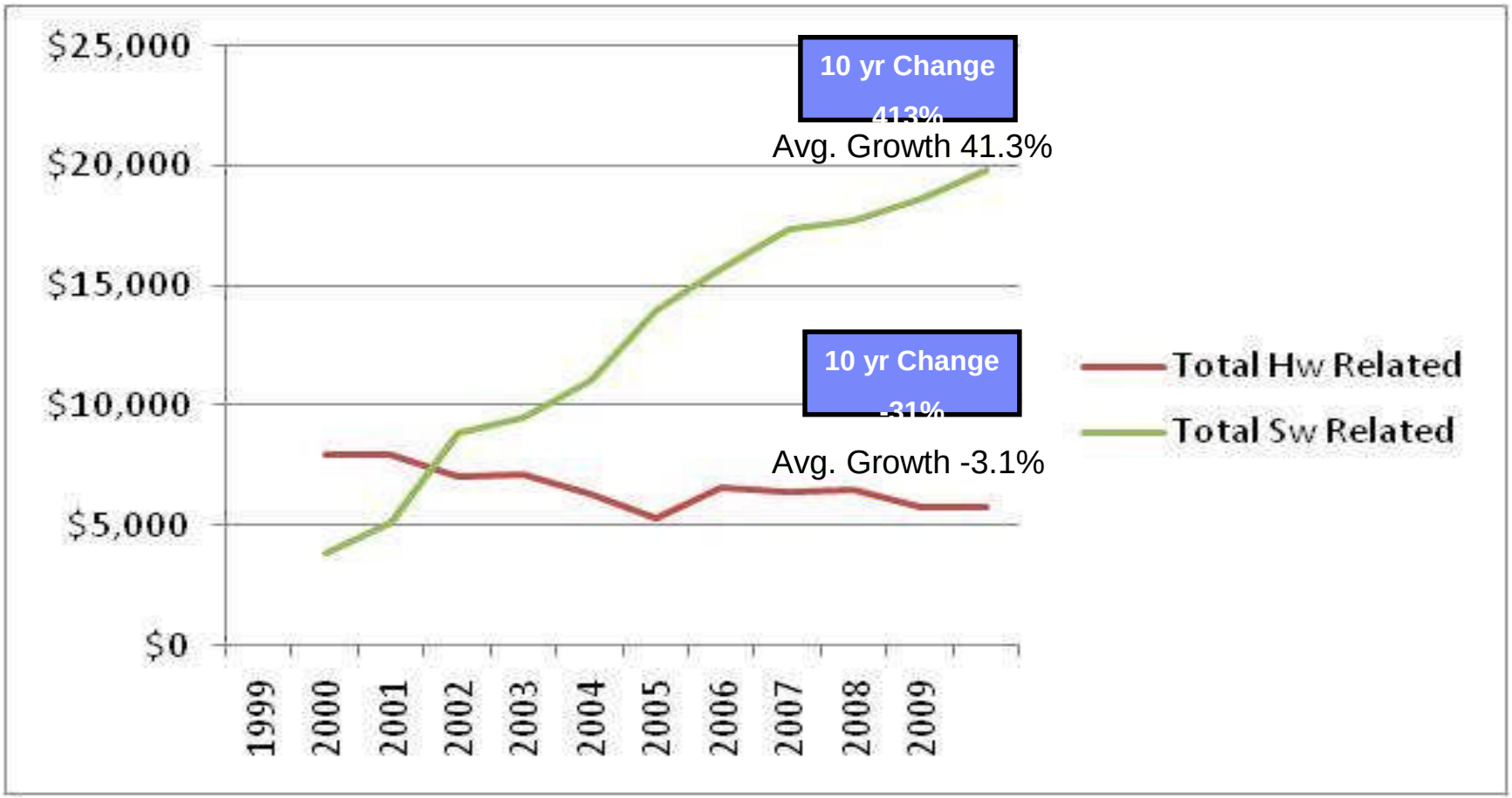
Real Customer Example Costing Initiative

Average Hardware / Software ($000's)



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Common Customer Challenges in Asset Management

- Lack of centralized **cross-platform data repository**
  - software inventory
  - product use activity
  - contractual and financial information
- **Rapid business change** causes unexpected software spending and inefficient software deployment
- **Complexities of license metrics**, terms & conditions, and software deployment
- **No clear knowledge** of what software is installed, how much it is being used and who is using it
- Most software asset management practices **lack the maturity** to drive maximum business value

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Who are the key Stakeholders ?

Business Executives are pushing for best practices not only to protect but also to optimize the way companies run their business processes. They are also responsible for internal and external compliance.

Business Units need to know that the assets on which their business relies are protected and optimized

IT gets re diverted to "fix" situations rather than assignment to value creation for the business

Asset Managers need to provide accurate information to Business Unit Execs, Finance Execs, Procurement and Compliance Organizations

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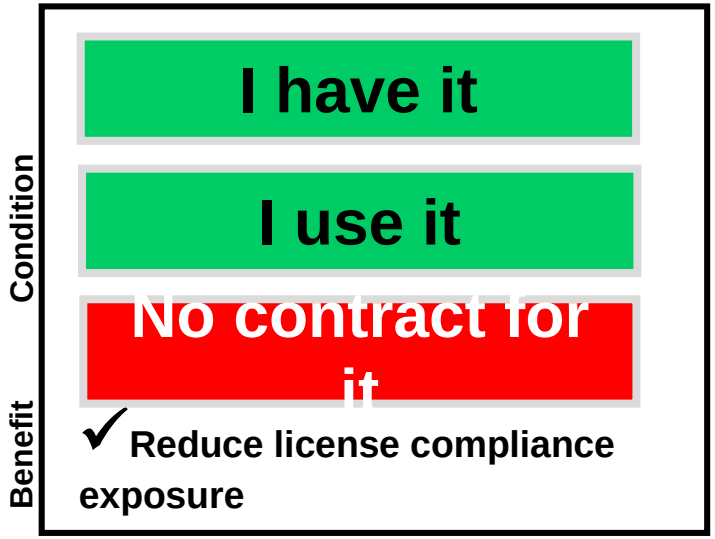
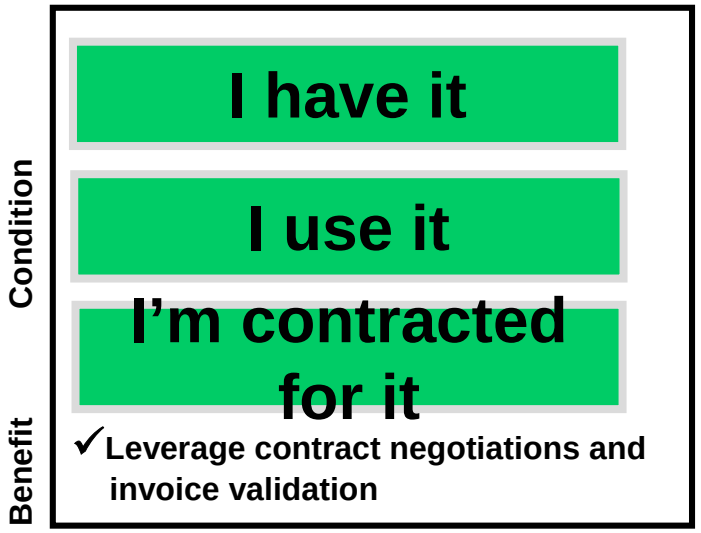
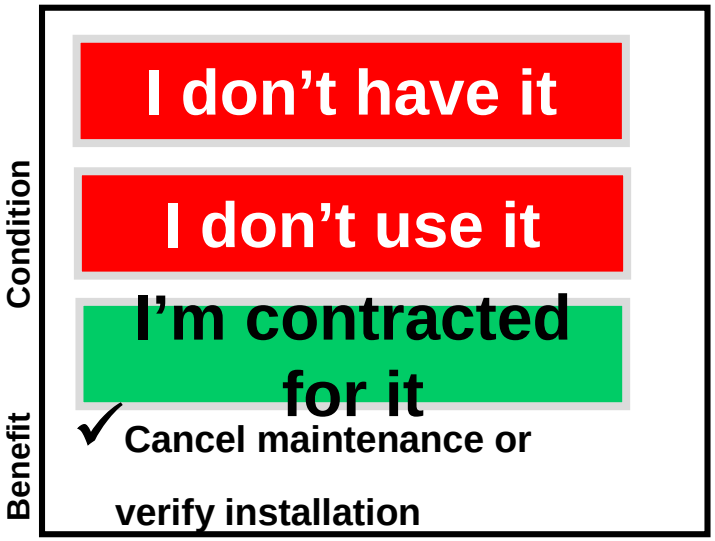
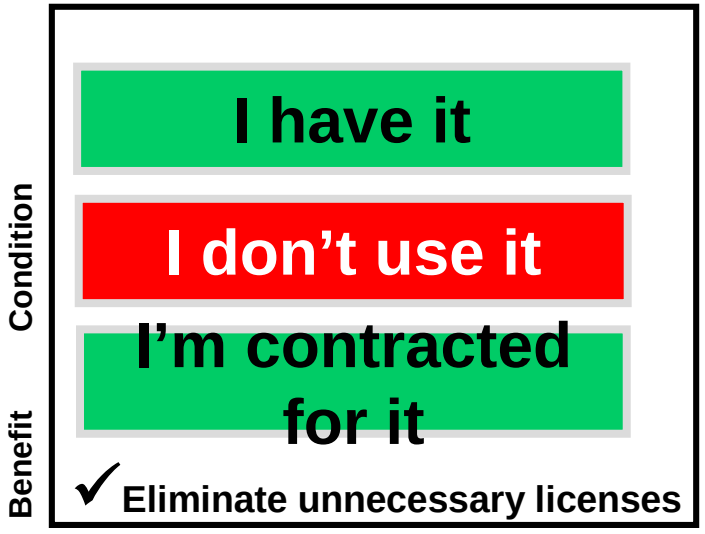
What should Software Asset Management tell me ?









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IT Asset Management Portfolio

- **Tivoli Asset Discovery for z/OS (TADz)**
  - Provides discovery and identification services for the z/OS platform
  - Monitors software usage and trends
  - Reports on the MIPS capacity of each LPAR under which software is running
  - Provides reporting for inventory and usage
  - Standalone product that integrates with SmartCloud Control Desk

- **Tivoli Asset Discovery for Distributed**
  - Provides discovery and identification services for distributed platforms
  - Monitors software usage and trends
  - Provides license usage for virtual environments including VMWare
  - Provides reporting for inventory and usage
  - Standalone product that integrates with SmartCloud Control Desk

- **IBM SmartCloud Control Desk**
  - Comprehensive IT Asset Lifecycle Management support
  - Includes support for SAM including full support for Software License Management

Tivoli Asset Discovery for z/OS

Tivoli Asset Discovery for Distributed

IBM SmartCloud Control Desk

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Tivoli Asset Discovery for z/OS

Software Management for the Mainframe

Tivoli Asset Discovery for z/OS identifies software inventory, measures use activity and can link to license entitlements to help manage software costs and license compliance

ROI

Get the most for your budget

Financial accountability

Protect against losing money

"With Tivoli software, we can better align software usage with end-user needs while reducing costs."

–Bob Becker

Principal Information Technology Consultant, Farmers Group Inc., a subsidiary of Zurich Financial Services Group

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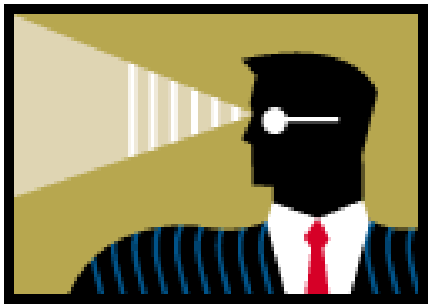
TADz - Key value to z/OS Operations Management

- z/OS products and applications are SHARED by many users and business units.
  - **Managing this shared environment relies on educated guesswork unless you have automated tools and up-to-date knowledge bases** to continually understand z/OS software usage
  - TADz helps customers **avoid possible large revenue loses due to unexpected outages**
    - TADz shows exactly where products & applications are deployed and which jobs/userids are using them. This enables **better software upgrade planning, change control and support**
    - Plan and verify **Disaster Recovery** systems have the necessary product libraries replicated to support business critical applications.

- Many z/OS customers have older SW versions and inherited systems
  - In order to **effectively manage inherited/merged environments** it is critical to understand product usage
  - **Reduce support costs and software license costs by consolidating environments**
    - Planning and smoothing migrations is greatly assisted by inspecting product usage with TADz's interactive web reporting.



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TADz – Key to z/OS Financial Management

- **Visualizing and Controlling large SW footprints and budgets**
  - Since z/OS products are SHARED by many users and business units, it is very hard to determine how to **get the best value from your software budget.**

- **Optimizing sub-capacity licenses**
  - TADz trend graphs have easy drill down to see who is using the software
  - This enables customers to **make sure monthly sub-capacity license charges do not grow out of control** and possibly adjust where software is accessed to **reduce charges**.

- **Addressing license compliance requirements for z/OS products**

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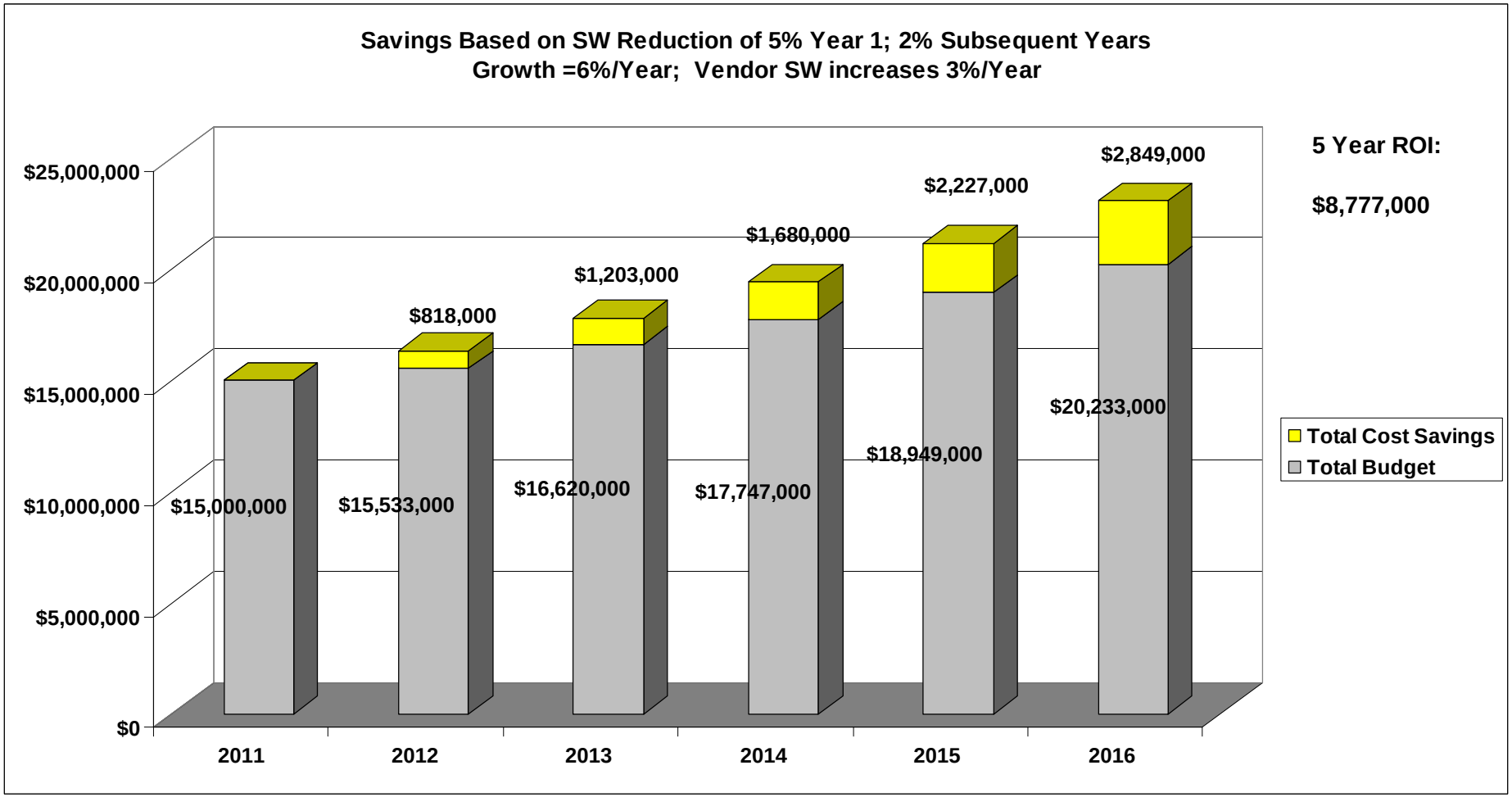
Conservative ROI



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ROI Actions: Controlling and Reducing License Charges

- **Drop products that are no longer being used**
- **Consolidate the number of products:**
  - Consolidate similar products
  - Consolidate product versions
- **Consolidate the number of machines covered by the product licenses**
  - Consolidate product usage to LPARs that are optimal for SCRT billing
  - Consolidate products across systems that have been brought together from outsourcing or company acquisitions
- **Enhance Vendor contract negotiations**
- **Verify that your deployed z/OS products comply with license terms & conditions:**
  - Avoid an audit from detecting illegal product deployments, which can lead to a retrospective bill that was not originally budgeted for

- **In order to do this, you need to be able to inspect product usage details !**

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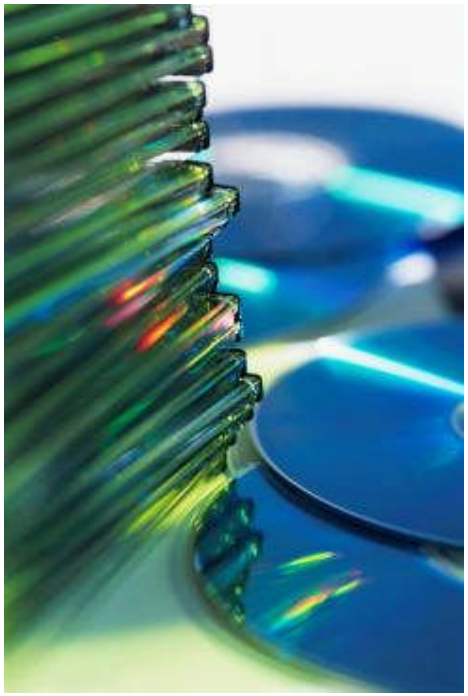
Tivoli Asset Discovery for z/OS

Tivoli Asset Discovery for z/OS

Tivoli Asset Discovery for Distributed

IBM SmartCloud Control Desk

- **z/OS discovery service**
- **Product identification**
  - Product Feature identification
  - Version, Release, Mod
- **Where the products are installed & used**
  - Regions, Machines, LPARs, SMF ID, Storage Volumes, Datasets
- **IBM and ISV Catalog**
  - Easy to maintain
  - Very complete
- **Flexible reporting**
- **Access monitoring**
  - Aggregates Job and Userid usage per day
  - Precise usage tracking:
    - Access is not counted for modules that could not be accessed due to security violation
    - Access is not counted for modules that were not found
- **Non-intrusive performance impact**



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TADZ Analyzer Reports (Web based, interactive)

The reports are sorted into 4 groups

- **Asset Reports**
  - The Assets menu tab contains reports that query high level aggregated data e.g. Product Versions. This level of data is generally of interest to people who are reconciling product licenses.
- **Discovery Reports**
  - The Discovery menu tab contains reports that query low level discovery data e.g. Product Releases, libraries and modules. This level of data is generally of interest to people who support z/OS systems.
- **Administration Reports**
  - The Administration Tab contains administration tasks and trouble shooting reports. These are designed for the Tivoli Asset Discovery for z/OS administrators. End users will normally not see this menu since they will not have been granted access
- **Custom Reports**
  - This is where you can create are store your own custom queries

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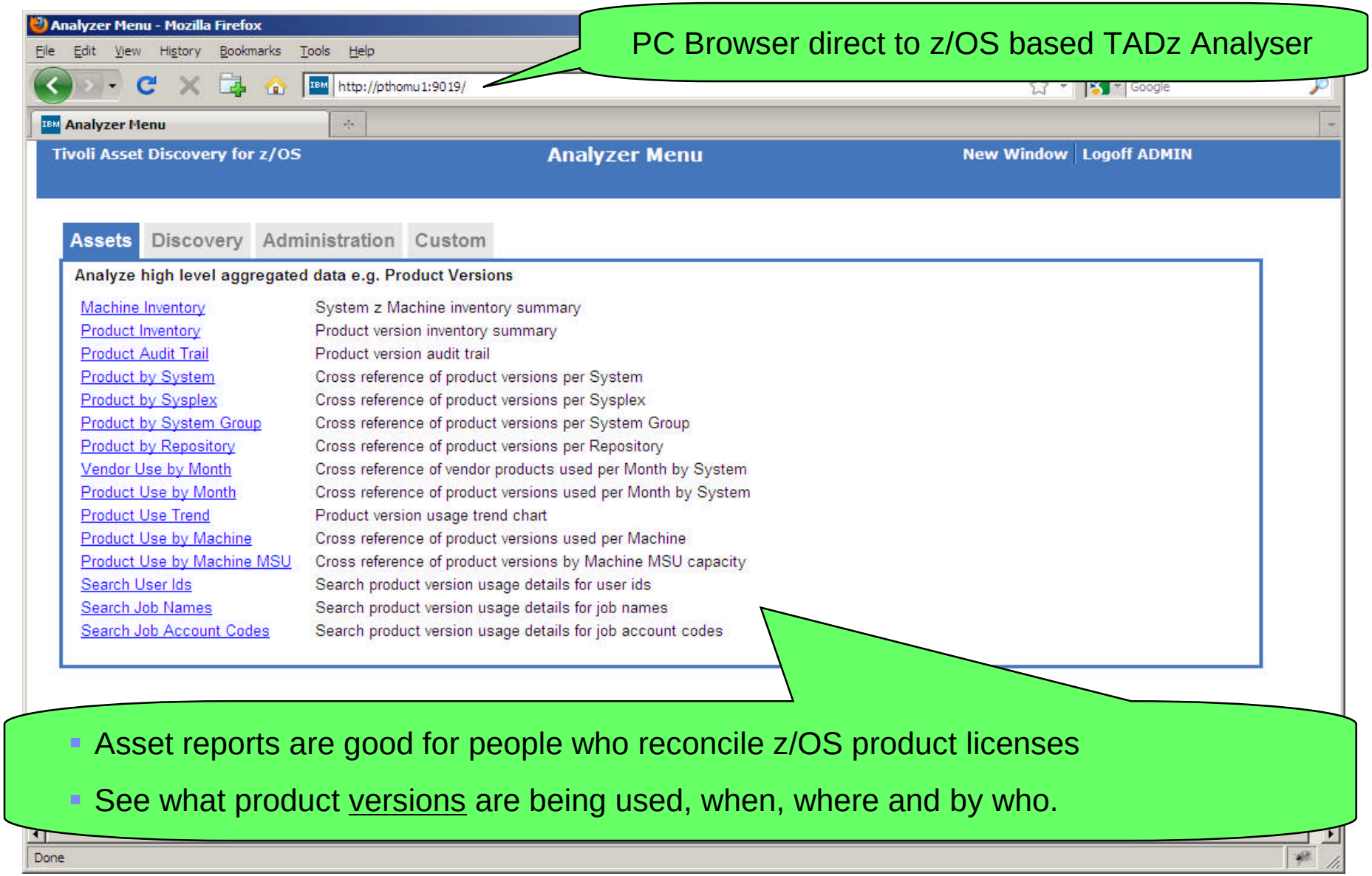

PC Browser direct to z/OS based TADz Analyser

- Asset reports are good for people who reconcile z/OS product licenses
- See what product versions are being used, when, where and by who.

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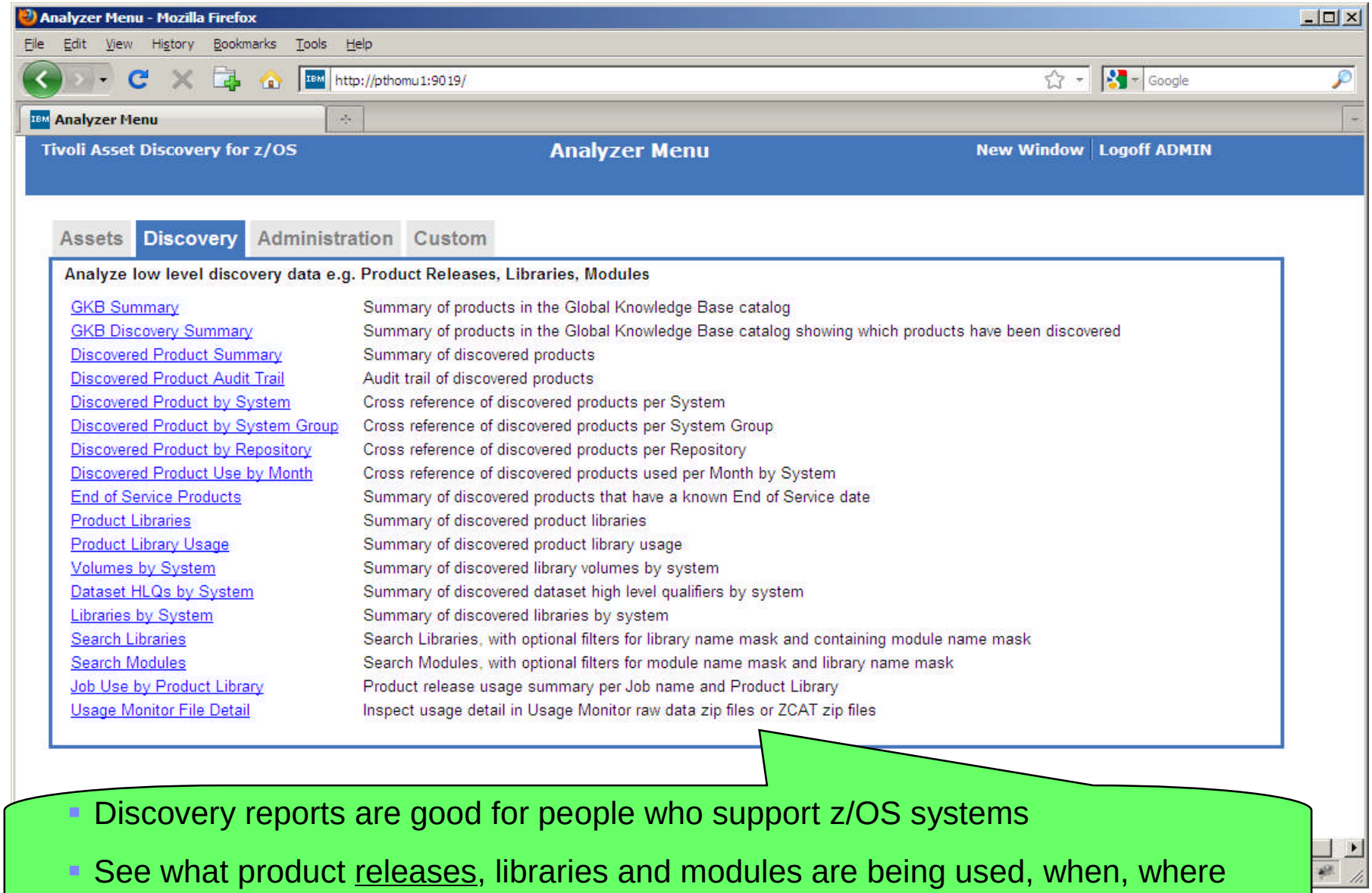

- Discovery reports are good for people who support z/OS systems
- See what product releases, libraries and modules are being used, when, where and by who.

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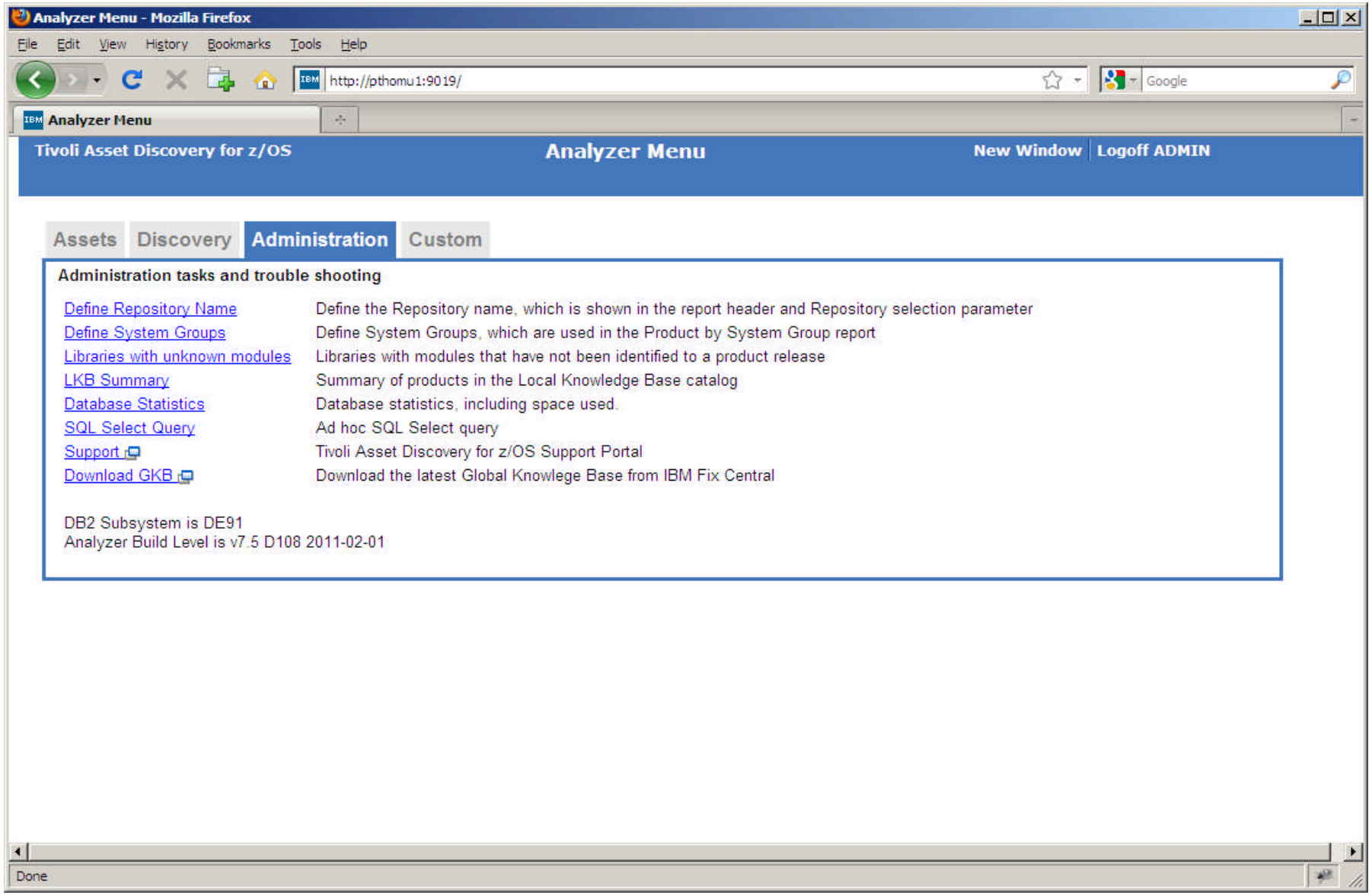

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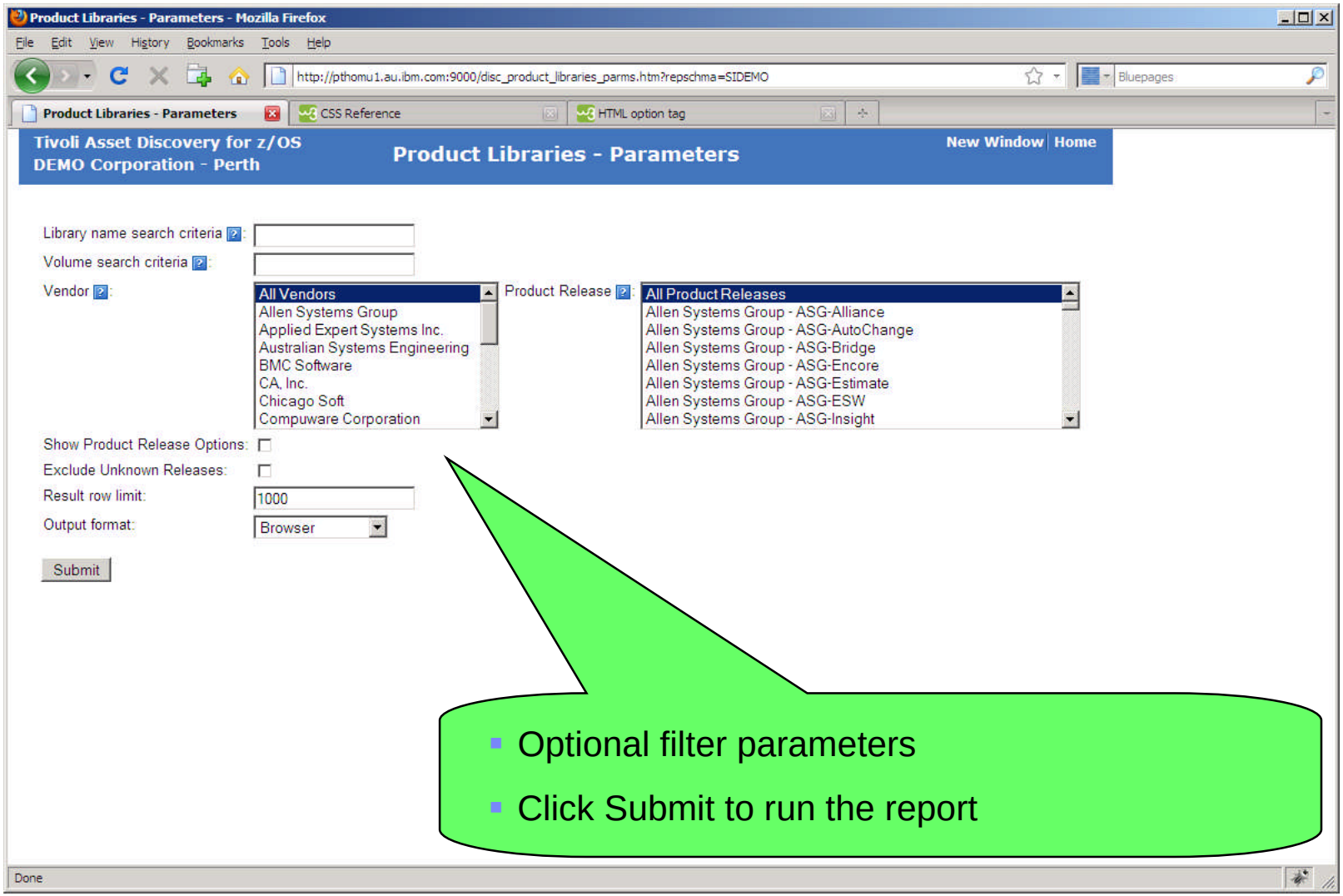
Report Parameters



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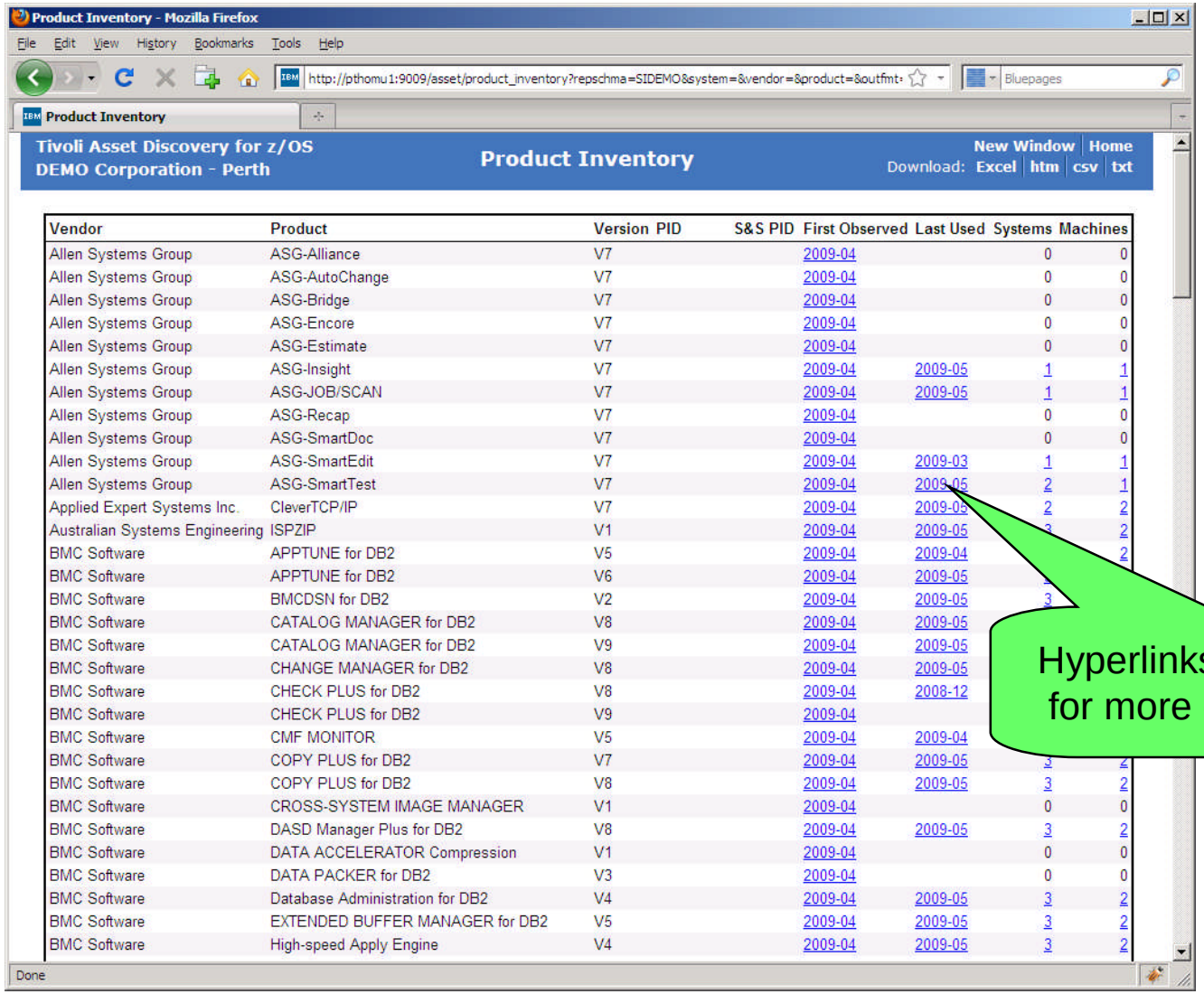
High Level Summary Reports with easy hyperlinks to details



Vendor	Product	Version	PID	S&S PID	First Observed	Last Used	Systems	Machines
Allen Systems Group	ASG-Alliance	V7			2009-04		0	0
Allen Systems Group	ASG-AutoChange	V7			2009-04		0	0
Allen Systems Group	ASG-Bridge	V7			2009-04		0	0
Allen Systems Group	ASG-Encore	V7			2009-04		0	0
Allen Systems Group	ASG-Estimate	V7			2009-04		0	0
Allen Systems Group	ASG-Insight	V7			2009-04	2009-05	1	1
Allen Systems Group	ASG-JOB/SCAN	V7			2009-04	2009-05	1	1
Allen Systems Group	ASG-Recap	V7			2009-04		0	0
Allen Systems Group	ASG-SmartDoc	V7			2009-04		0	0
Allen Systems Group	ASG-SmartEdit	V7			2009-04	2009-03	1	1
Allen Systems Group	ASG-SmartTest	V7			2009-04	2009-05	2	1
Applied Expert Systems Inc.	CleverTCP/IP	V7			2009-04	2009-05	2	2
Australian Systems Engineering	ISPZIP	V1			2009-04	2009-05	3	2
BMC Software	APPTUNE for DB2	V5			2009-04	2009-04		2
BMC Software	APPTUNE for DB2	V6			2009-04	2009-05		
BMC Software	BMCDSN for DB2	V2			2009-04	2009-05	3	
BMC Software	CATALOG MANAGER for DB2	V8			2009-04	2009-05		
BMC Software	CATALOG MANAGER for DB2	V9			2009-04	2009-05		
BMC Software	CHANGE MANAGER for DB2	V8			2009-04	2009-05		
BMC Software	CHECK PLUS for DB2	V8			2009-04	2008-12		
BMC Software	CHECK PLUS for DB2	V9			2009-04			
BMC Software	CMF MONITOR	V5			2009-04	2009-04		
BMC Software	COPY PLUS for DB2	V7			2009-04	2009-05	3	2
BMC Software	COPY PLUS for DB2	V8			2009-04	2009-05	3	2
BMC Software	CROSS-SYSTEM IMAGE MANAGER	V1			2009-04		0	0
BMC Software	DASD Manager Plus for DB2	V8			2009-04	2009-05	3	2
BMC Software	DATA ACCELERATOR Compression	V1			2009-04		0	0
BMC Software	DATA PACKER for DB2	V3			2009-04		0	0
BMC Software	Database Administration for DB2	V4			2009-04	2009-05	3	2
BMC Software	EXTENDED BUFFER MANAGER for DB2	V5			2009-04	2009-05	3	2
BMC Software	High-speed Apply Engine	V4			2009-04	2009-05	3	2

Hyperlinks to drill down for more details

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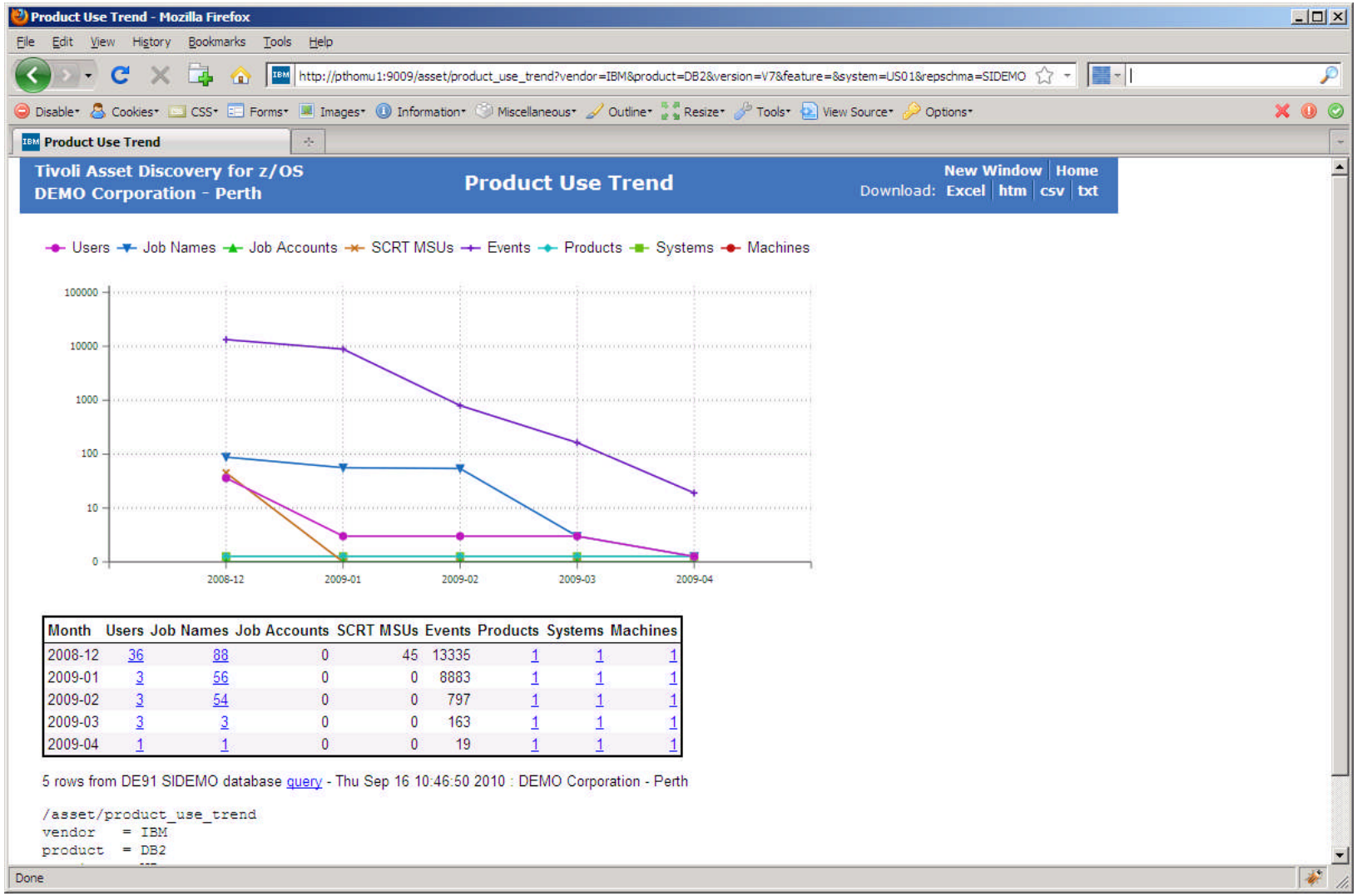
Trend Charts



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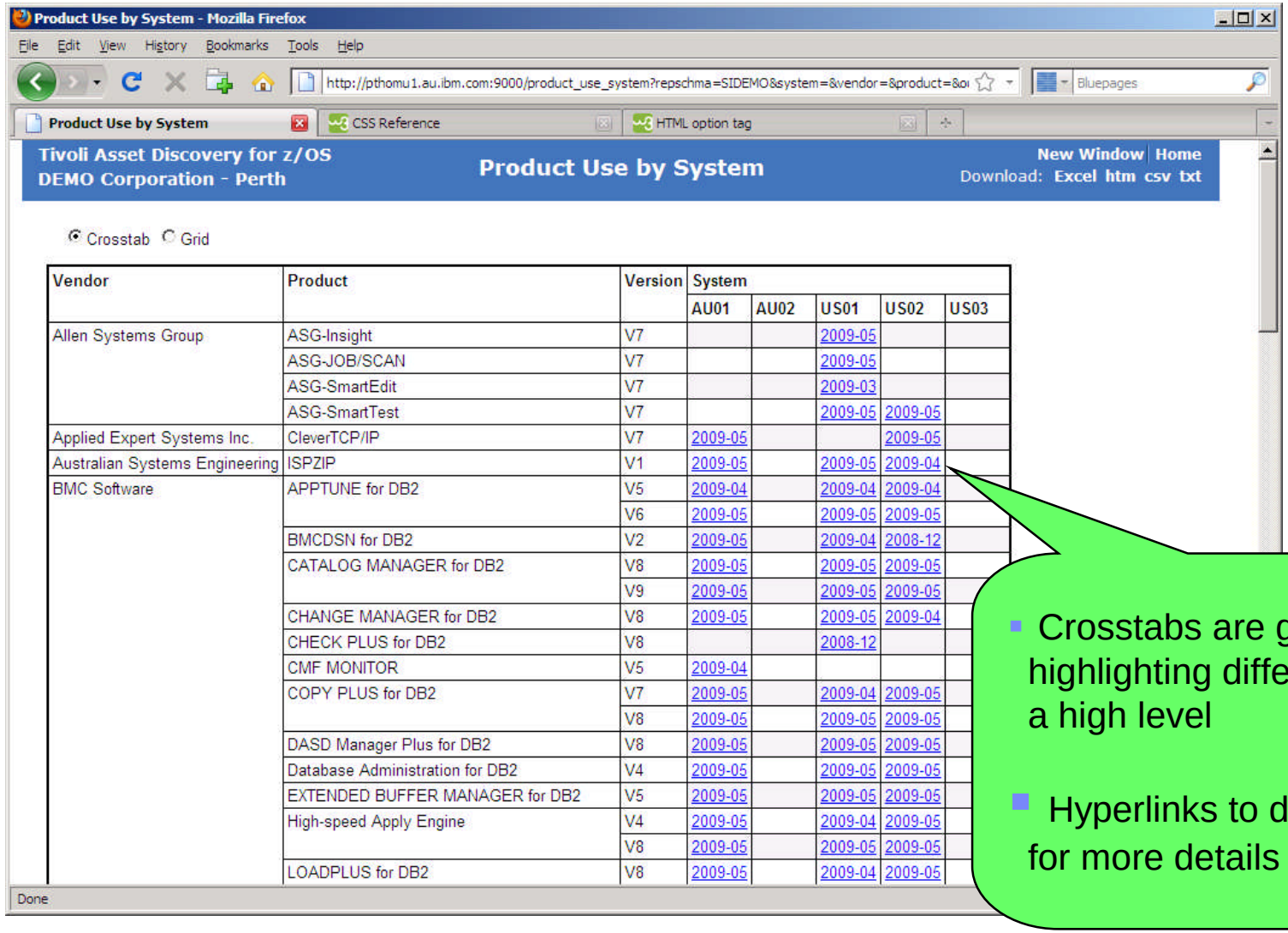
Crosstab reports



Vendor	Product	Version	System				
			AU01	AU02	US01	US02	US03
Allen Systems Group	ASG-Insight	V7			2009-05		
	ASG-JOB/SCAN	V7			2009-05		
	ASG-SmartEdit	V7			2009-03		
	ASG-SmartTest	V7			2009-05	2009-05	
Applied Expert Systems Inc.	CleverTCP/IP	V7	2009-05			2009-05	
Australian Systems Engineering	ISPZIP	V1	2009-05		2009-05	2009-04	
BMC Software	APPTUNE for DB2	V5	2009-04		2009-04	2009-04	
		V6	2009-05		2009-05	2009-05	
	BMCDSN for DB2	V2	2009-05		2009-04	2008-12	
	CATALOG MANAGER for DB2	V8	2009-05		2009-05	2009-05	
		V9	2009-05		2009-05	2009-05	
	CHANGE MANAGER for DB2	V8	2009-05		2009-05	2009-04	
	CHECK PLUS for DB2	V8			2008-12		
	CMF MONITOR	V5	2009-04				
	COPY PLUS for DB2	V7	2009-05		2009-04	2009-05	
		V8	2009-05		2009-05	2009-05	
	DASD Manager Plus for DB2	V8	2009-05		2009-05	2009-05	
	Database Administration for DB2	V4	2009-05		2009-05	2009-05	
	EXTENDED BUFFER MANAGER for DB2	V5	2009-05		2009-05	2009-05	
	High-speed Apply Engine	V4	2009-05		2009-04	2009-05	
		V8	2009-05		2009-05	2009-05	
	LOADPLUS for DB2	V8	2009-05		2009-04	2009-05	

- Crosstabs are great for highlighting differences at a high level
- Hyperlinks to drill down for more details

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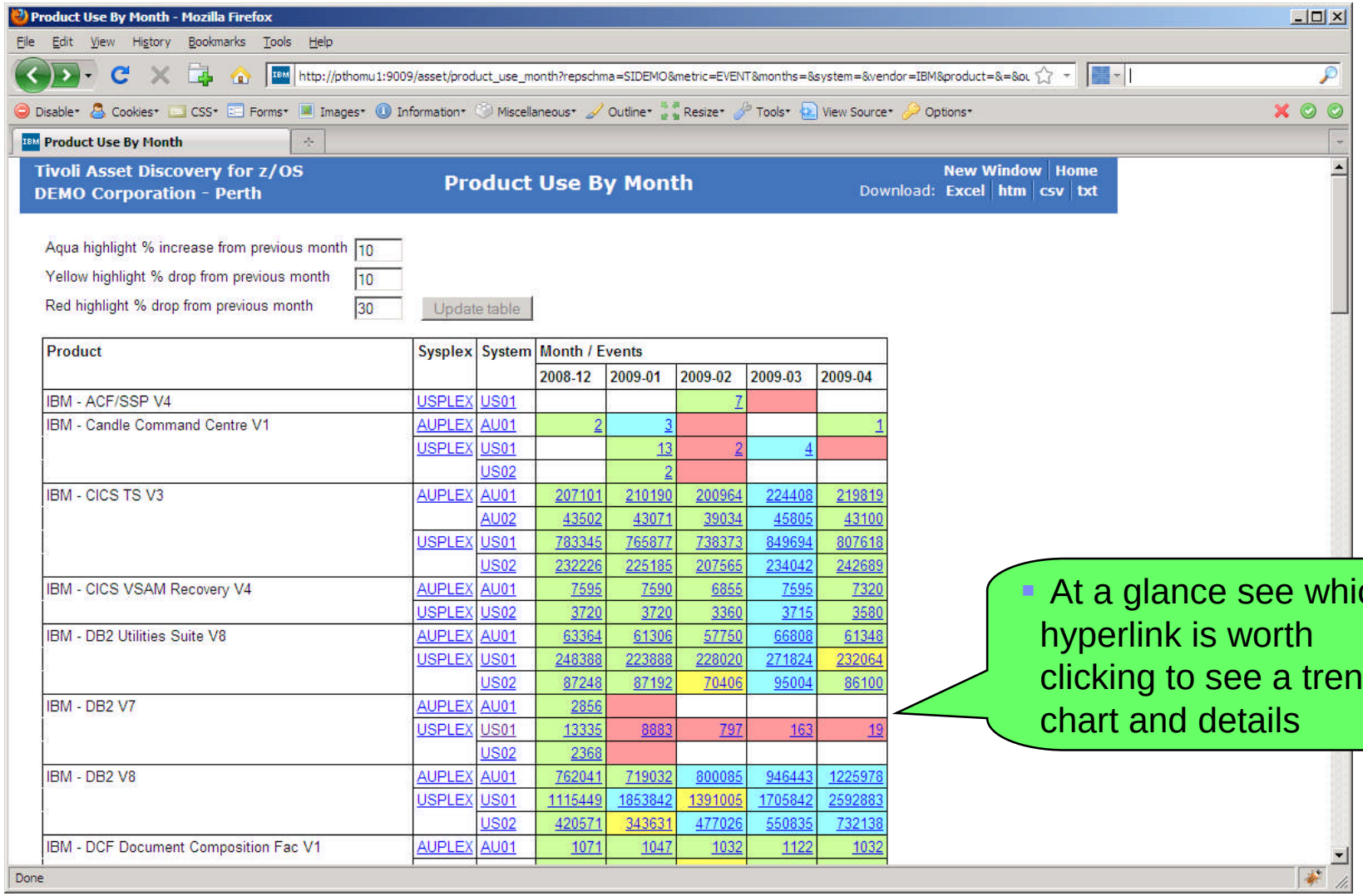
Color coded trend reports



Product	Sysplex	System	Month / Events				
			2008-12	2009-01	2009-02	2009-03	2009-04
IBM - ACF/SSP V4	USPLEX	US01			7		
IBM - Candle Command Centre V1	AUPLEX	AU01	2	3			1
	USPLEX	US01		13	2	4	
		US02		2			
IBM - CICS TS V3	AUPLEX	AU01	207101	210190	200964	224408	219819
		AU02	43502	43071	39034	45805	43100
	USPLEX	US01	783345	765877	738373	849694	807618
		US02	232226	225185	207565	234042	242689
IBM - CICS VSAM Recovery V4	AUPLEX	AU01	7595	7590	6855	7595	7320
	USPLEX	US02	3720	3720	3360	3715	3580
IBM - DB2 Utilities Suite V8	AUPLEX	AU01	63364	61306	57750	66808	61348
	USPLEX	US01	248388	223888	228020	271824	232064
		US02	87248	87192	70406	95004	86100
IBM - DB2 V7	AUPLEX	AU01	2856				
	USPLEX	US01	13335	8883	797	163	19
		US02	2368				
IBM - DB2 V8	AUPLEX	AU01	762041	719032	800085	946443	1225978
	USPLEX	US01	1115449	1853842	1391005	1705842	2592883
		US02	420571	343631	477026	550835	732138
IBM - DCF Document Composition Fac V1	AUPLEX	AU01	1071	1047	1032	1122	1032

- At a glance see which hyperlink is worth clicking to see a trend chart and details

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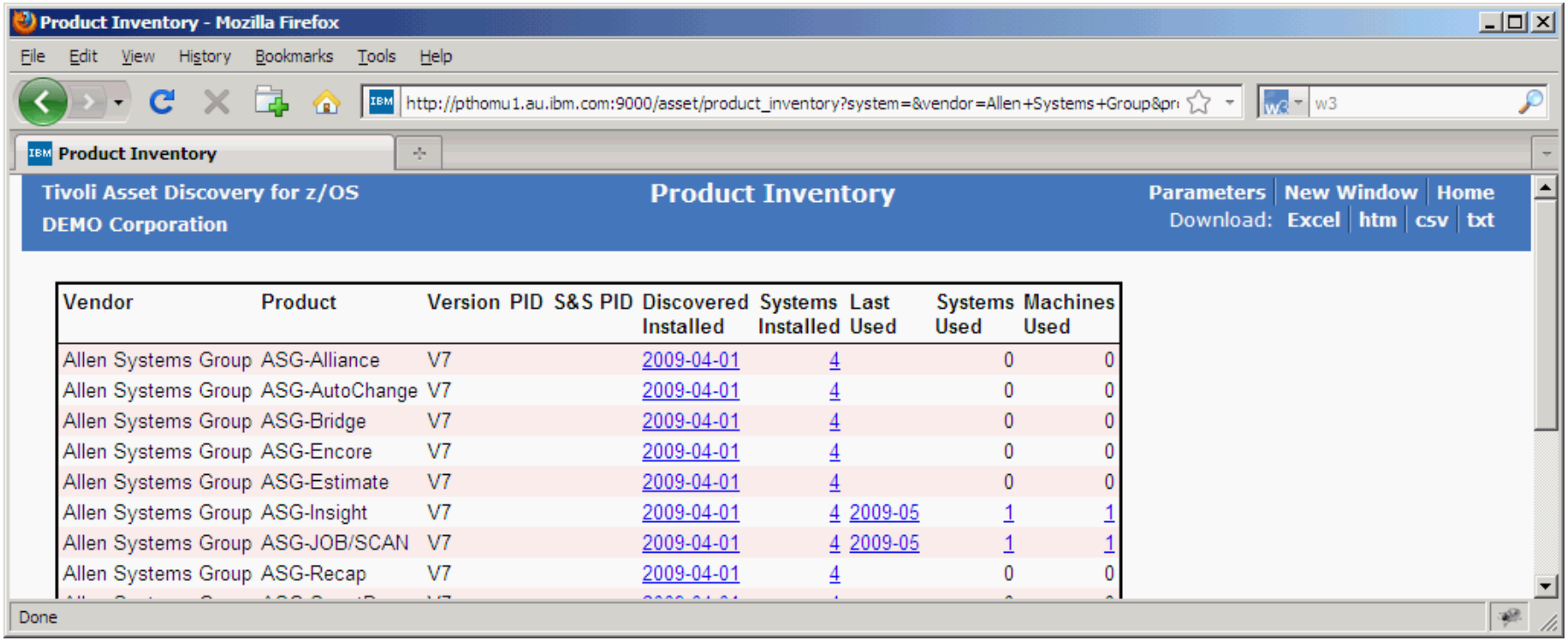
Asset: Product Inventory output



Vendor	Product	Version	PID	S&S PID	Discovered Installed	Systems Installed	Last Used	Systems Used	Machines Used
Allen Systems Group	ASG-Alliance	V7			2009-04-01	4		0	0
Allen Systems Group	ASG-AutoChange	V7			2009-04-01	4		0	0
Allen Systems Group	ASG-Bridge	V7			2009-04-01	4		0	0
Allen Systems Group	ASG-Encore	V7			2009-04-01	4		0	0
Allen Systems Group	ASG-Estimate	V7			2009-04-01	4		0	0
Allen Systems Group	ASG-Insight	V7			2009-04-01	4	2009-05	1	1
Allen Systems Group	ASG-JOB/SCAN	V7			2009-04-01	4	2009-05	1	1
Allen Systems Group	ASG-Recap	V7			2009-04-01	4		0	0

The output above shows the products that are installed and in the example shown the date the products were first discovered, the number of systems that it was installed in and if the product has any usage. A number of these fields can be drilled down to see more information.

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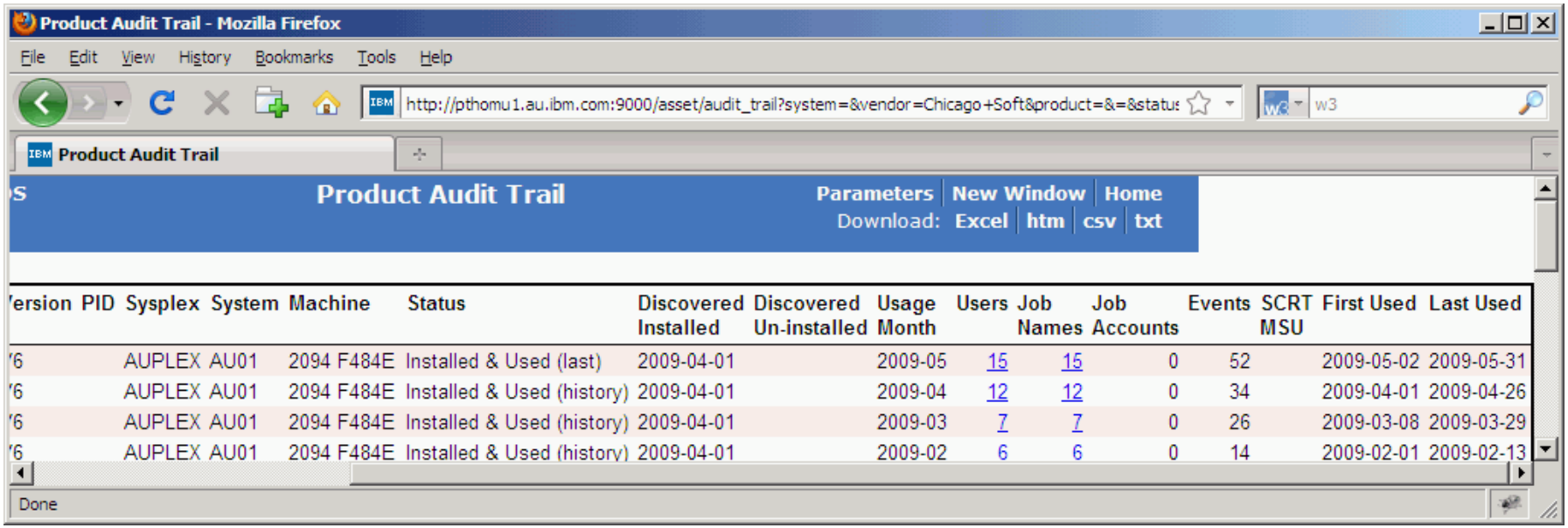
Asset: Product Audit Trail output



ersion	PID	Sysplex	System	Machine	Status	Discovered Installed	Discovered Un-installed	Usage Month	Users	Job Names	Job Accounts	Events	SCRT MSU	First Used	Last Used
6		AUPLEX	AU01	2094 F484E	Installed & Used (last)	2009-04-01		2009-05	15	15	0	52		2009-05-02	2009-05-31
6		AUPLEX	AU01	2094 F484E	Installed & Used (history)	2009-04-01		2009-04	12	12	0	34		2009-04-01	2009-04-26
6		AUPLEX	AU01	2094 F484E	Installed & Used (history)	2009-04-01		2009-03	7	7	0	26		2009-03-08	2009-03-29
6		AUPLEX	AU01	2094 F484E	Installed & Used (history)	2009-04-01		2009-02	6	6	0	14		2009-02-01	2009-02-13

The status field shows if a product is Installed and used or installed and unused.

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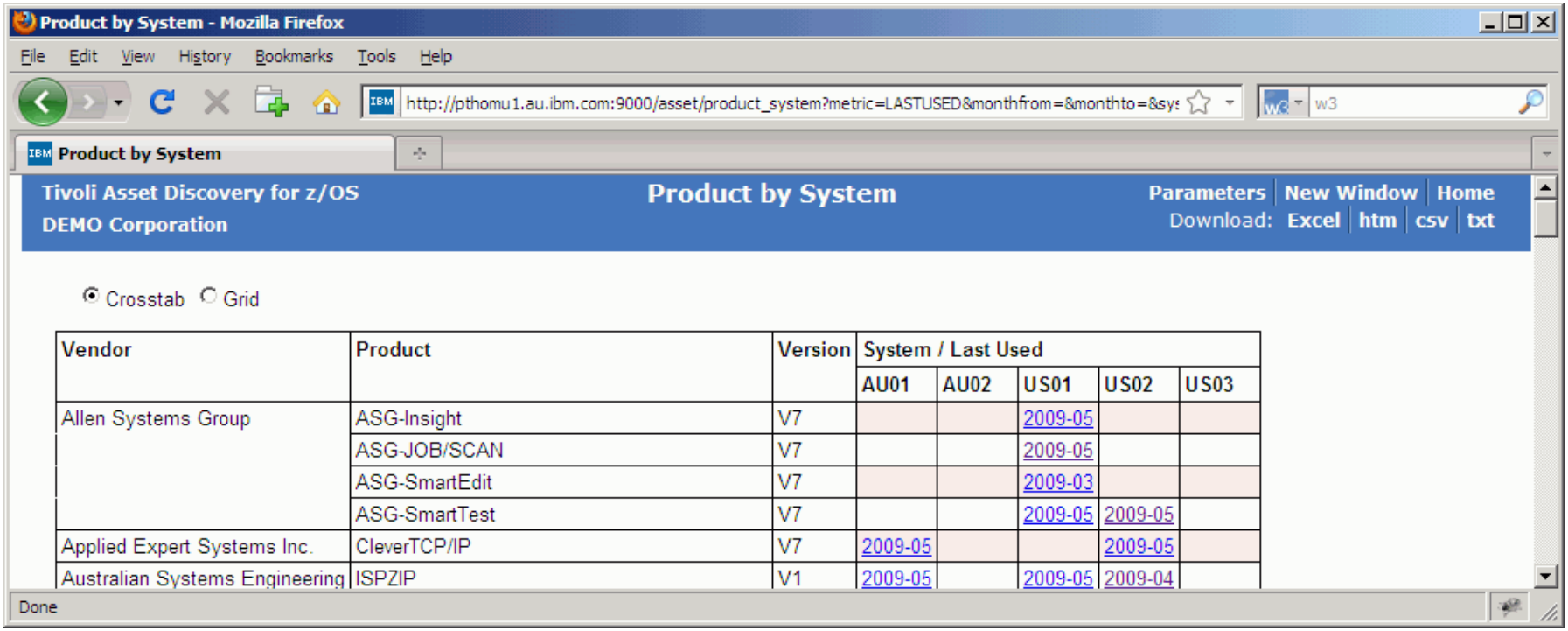
Asset: Product by System output



Vendor	Product	Version	System / Last Used				
			AU01	AU02	US01	US02	US03
Allen Systems Group	ASG-Insight	V7			2009-05		
	ASG-JOB/SCAN	V7			2009-05		
	ASG-SmartEdit	V7			2009-03		
	ASG-SmartTest	V7			2009-05	2009-05	
Applied Expert Systems Inc.	CleverTCP/IP	V7	2009-05			2009-05	
Australian Systems Engineering	ISPZIP	V1	2009-05		2009-05	2009-04	

The output shows on which systems a product is installed and the last date it was used.
Selecting the last used date will take you to Product trend report.

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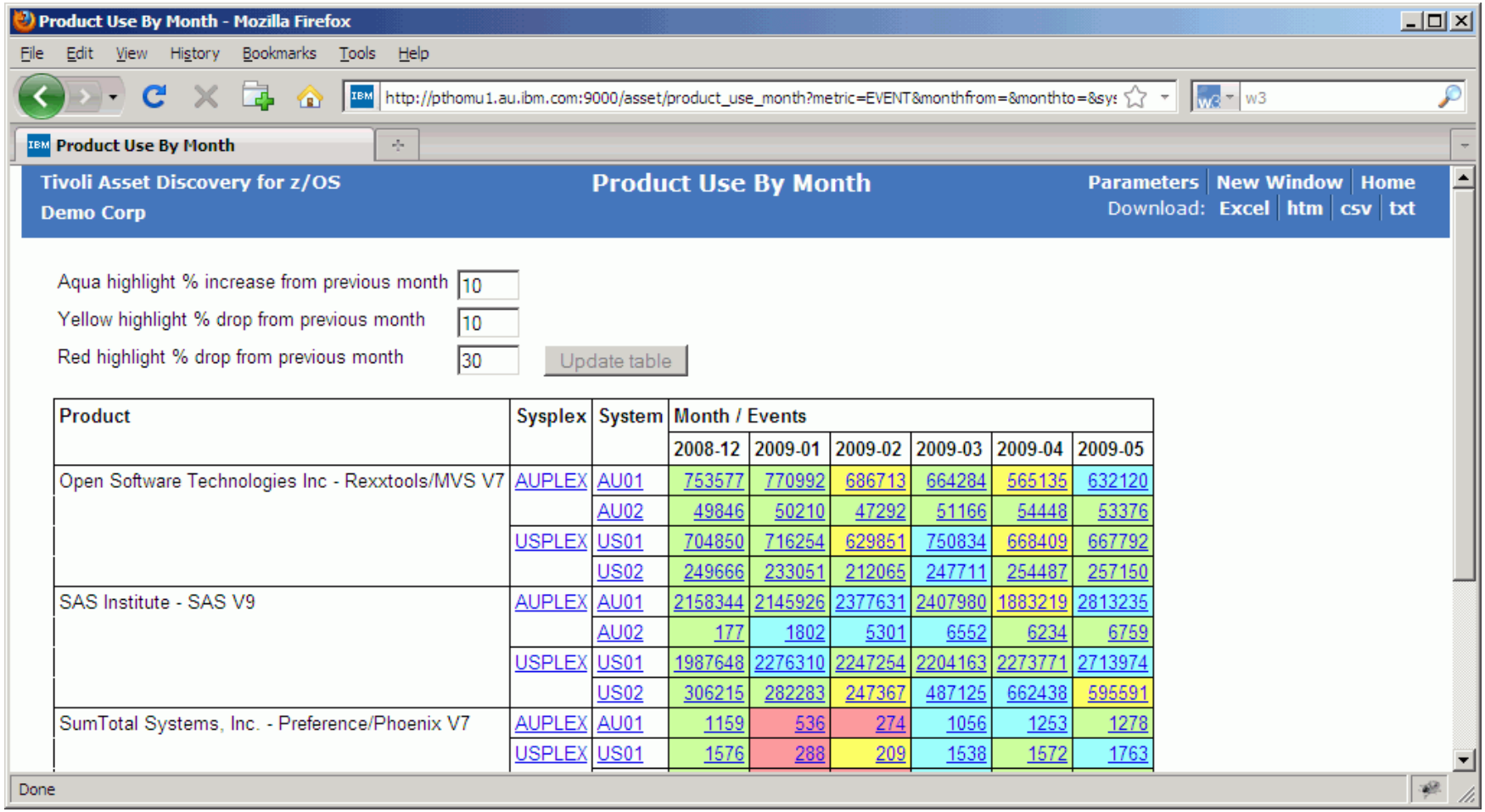
Asset: Product Use by Month output



Product	Sysplex	System	Month / Events					
			2008-12	2009-01	2009-02	2009-03	2009-04	2009-05
Open Software Technologies Inc - Rexxtools/MVS V7	AUPLEX	AU01	753577	770992	686713	664284	565135	632120
		AU02	49846	50210	47292	51166	54448	53376
	USPLEX	US01	704850	716254	629851	750834	668409	667792
		US02	249666	233051	212065	247711	254487	257150
SAS Institute - SAS V9	AUPLEX	AU01	2158344	2145926	2377631	2407980	1883219	2813235
		AU02	177	1802	5301	6552	6234	6759
	USPLEX	US01	1987648	2276310	2247254	2204163	2273771	2713974
		US02	306215	282283	247367	487125	662438	595591
SumTotal Systems, Inc. - Preference/Phoenix V7	AUPLEX	AU01	1159	536	274	1056	1253	1278
	USPLEX	US01	1576	288	209	1538	1572	1763

There maybe reasons you want to see specific usage for a product.

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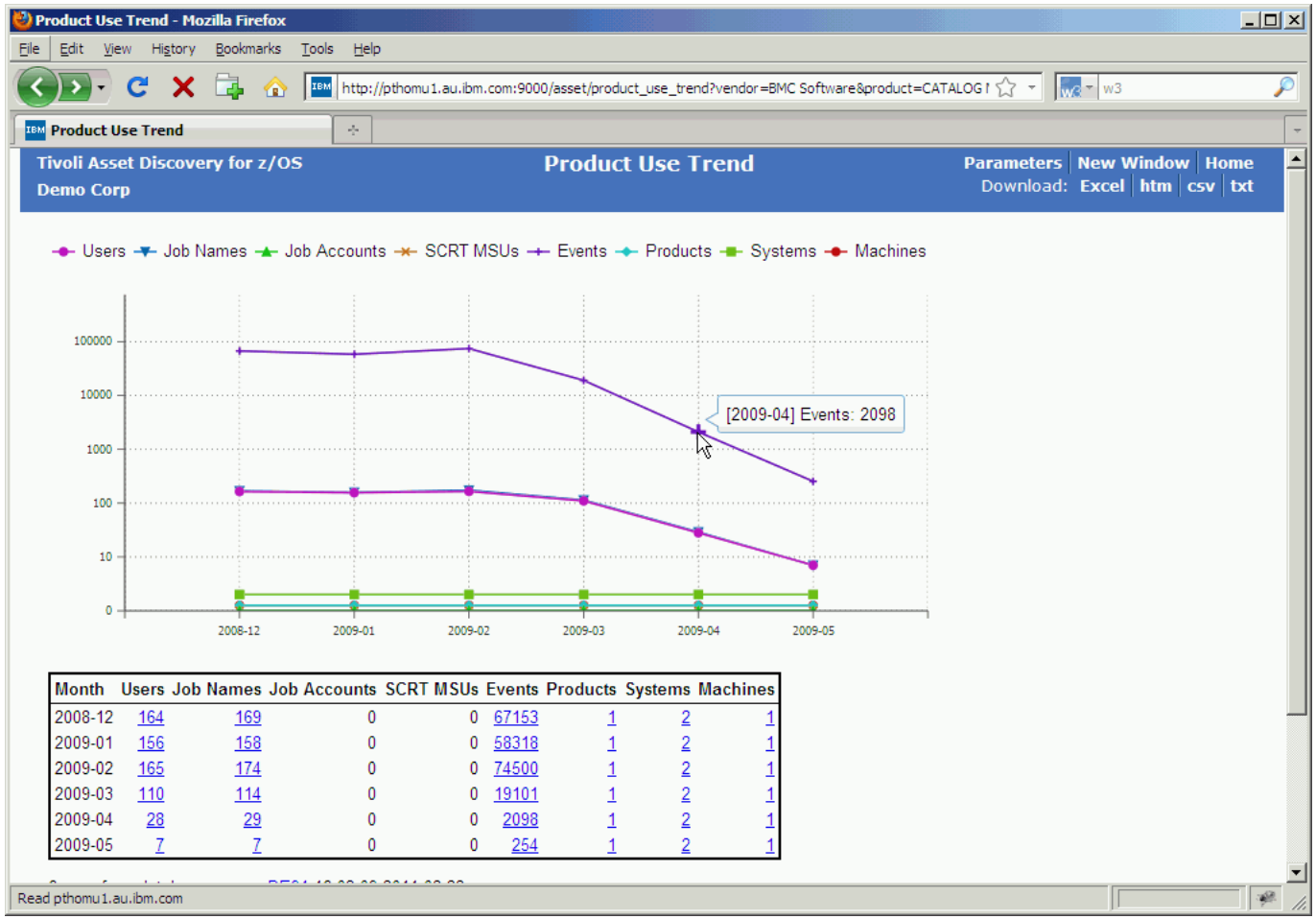
Asset: Product Use Trend output



Here you can see the there is a decline in usage for the specified product. You can drill down to see who is using the product etc.

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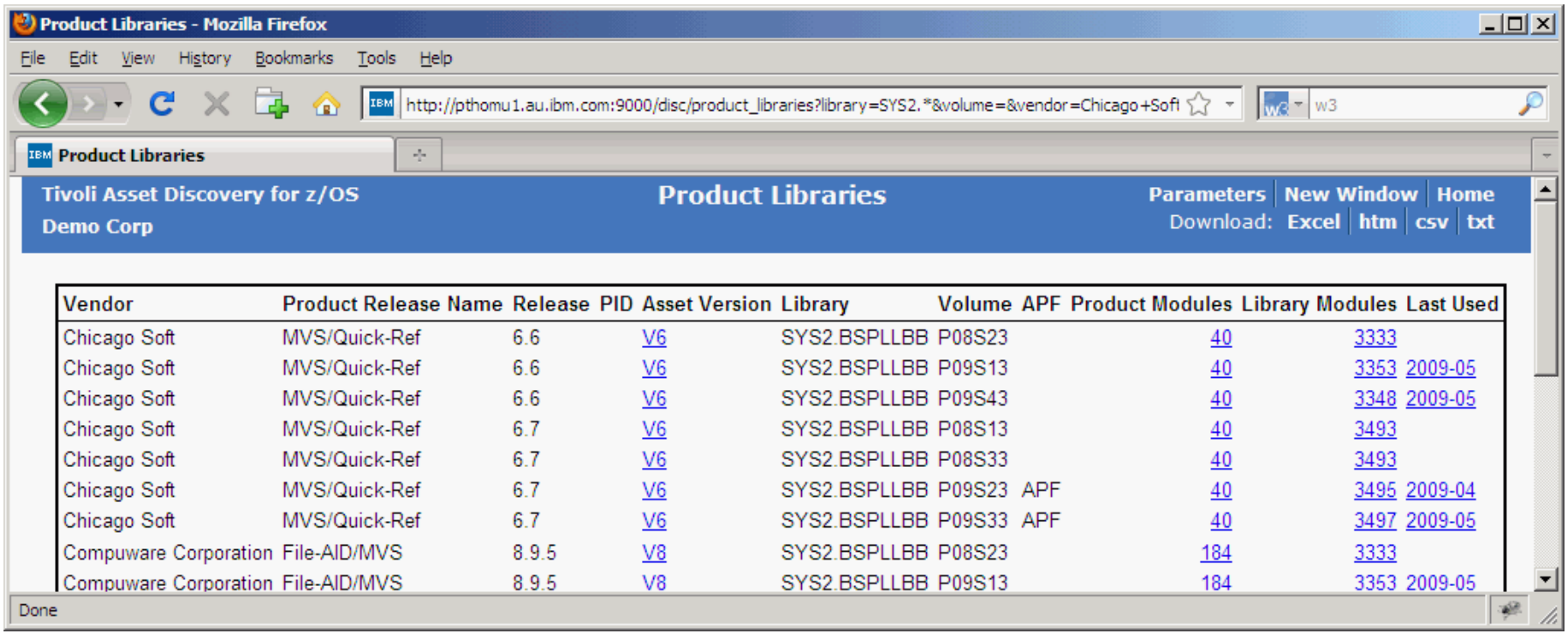
Discovery: Products Libraries output



Vendor	Product Release Name	Release	PID	Asset Version	Library	Volume	APF	Product Modules	Library Modules	Last Used
Chicago Soft	MVS/Quick-Ref	6.6		V6	SYS2.BSPLLBB	P08S23		40	3333	
Chicago Soft	MVS/Quick-Ref	6.6		V6	SYS2.BSPLLBB	P09S13		40	3353	2009-05
Chicago Soft	MVS/Quick-Ref	6.6		V6	SYS2.BSPLLBB	P09S43		40	3348	2009-05
Chicago Soft	MVS/Quick-Ref	6.7		V6	SYS2.BSPLLBB	P08S13		40	3493	
Chicago Soft	MVS/Quick-Ref	6.7		V6	SYS2.BSPLLBB	P08S33		40	3493	
Chicago Soft	MVS/Quick-Ref	6.7		V6	SYS2.BSPLLBB	P09S23	APF	40	3495	2009-04
Chicago Soft	MVS/Quick-Ref	6.7		V6	SYS2.BSPLLBB	P09S33	APF	40	3497	2009-05
Compuware Corporation	File-AID/MVS	8.9.5		V8	SYS2.BSPLLBB	P08S23		184	3333	
Compuware Corporation	File-AID/MVS	8.9.5		V8	SYS2.BSPLLBB	P09S13		184	3353	2009-05

The example above shows all the libraries that the product is installed in and various other statistics.

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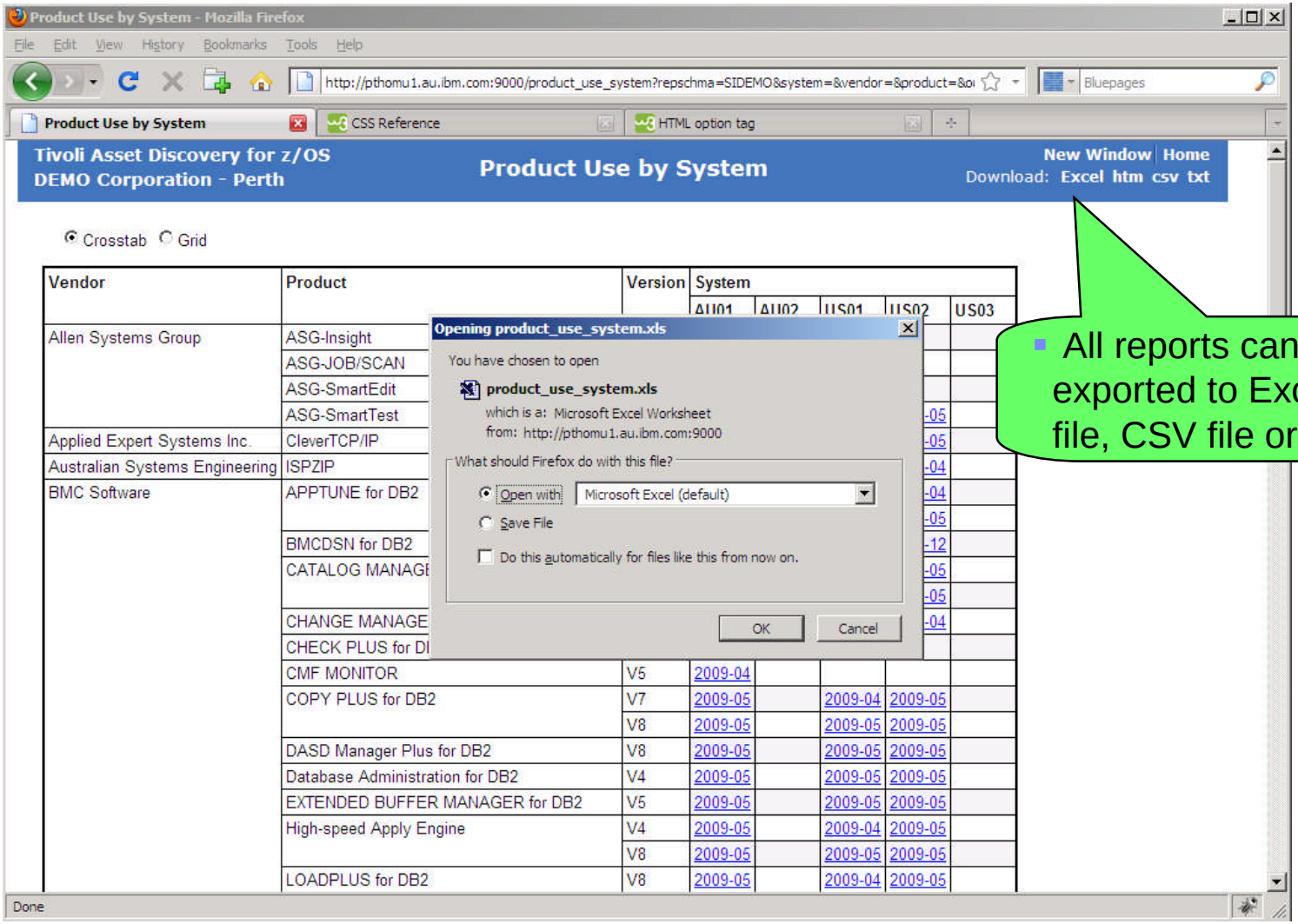
Exporting the reports to a spreadsheet



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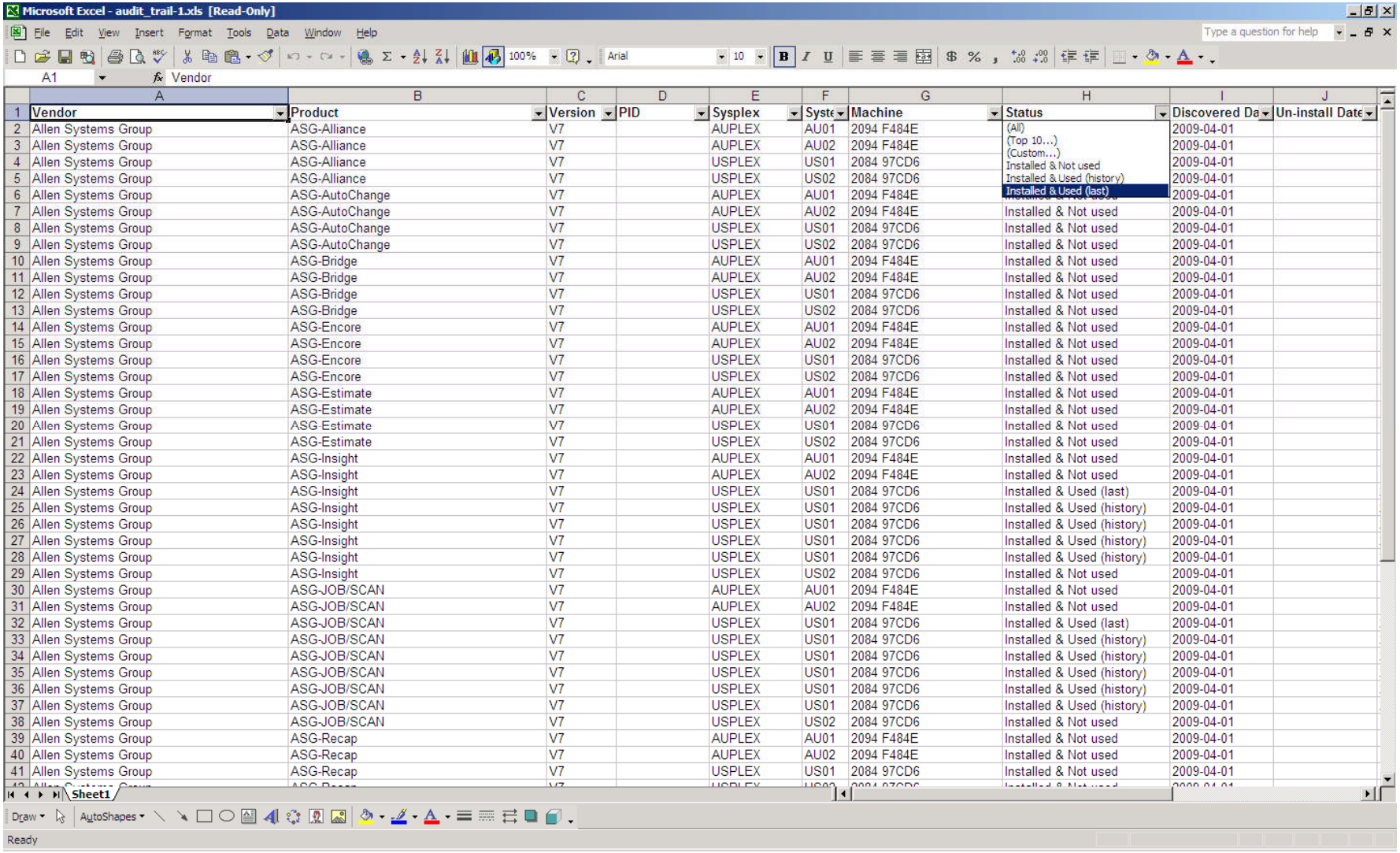
Spreadsheets have a filter bar



Microsoft Excel - audit_trail-1.xls [Read-Only]

File Edit View Insert Format Tools Data Window Help

A1 fx Vendor

	A	B	C	D	E	F	G	H	I	J
1	Vendor	Product	Version	PID	Sysplex	Syste	Machine	Status	Discovered Da	Un-install Date
2	Allen Systems Group	ASG-Alliance	V7		AUPLEX	AU01	2094 F484E	(All)	2009-04-01	
3	Allen Systems Group	ASG-Alliance	V7		AUPLEX	AU02	2094 F484E	(Top 10...)	2009-04-01	
4	Allen Systems Group	ASG-Alliance	V7		USPLEX	US01	2084 97CD6	(Custom...)	2009-04-01	
5	Allen Systems Group	ASG-Alliance	V7		USPLEX	US02	2084 97CD6	Installed & Not used	2009-04-01	
6	Allen Systems Group	ASG-AutoChange	V7		AUPLEX	AU01	2094 F484E	Installed & Used (history)	2009-04-01	
7	Allen Systems Group	ASG-AutoChange	V7		AUPLEX	AU02	2094 F484E	Installed & Used (last)	2009-04-01	
8	Allen Systems Group	ASG-AutoChange	V7		USPLEX	US01	2084 97CD6	Installed & Not used	2009-04-01	
9	Allen Systems Group	ASG-AutoChange	V7		USPLEX	US02	2084 97CD6	Installed & Not used	2009-04-01	
10	Allen Systems Group	ASG-Bridge	V7		AUPLEX	AU01	2094 F484E	Installed & Not used	2009-04-01	
11	Allen Systems Group	ASG-Bridge	V7		AUPLEX	AU02	2094 F484E	Installed & Not used	2009-04-01	
12	Allen Systems Group	ASG-Bridge	V7		USPLEX	US01	2084 97CD6	Installed & Not used	2009-04-01	
13	Allen Systems Group	ASG-Bridge	V7		USPLEX	US02	2084 97CD6	Installed & Not used	2009-04-01	
14	Allen Systems Group	ASG-Encore	V7		AUPLEX	AU01	2094 F484E	Installed & Not used	2009-04-01	
15	Allen Systems Group	ASG-Encore	V7		AUPLEX	AU02	2094 F484E	Installed & Not used	2009-04-01	
16	Allen Systems Group	ASG-Encore	V7		USPLEX	US01	2084 97CD6	Installed & Not used	2009-04-01	
17	Allen Systems Group	ASG-Encore	V7		USPLEX	US02	2084 97CD6	Installed & Not used	2009-04-01	
18	Allen Systems Group	ASG-Estimate	V7		AUPLEX	AU01	2094 F484E	Installed & Not used	2009-04-01	
19	Allen Systems Group	ASG-Estimate	V7		AUPLEX	AU02	2094 F484E	Installed & Not used	2009-04-01	
20	Allen Systems Group	ASG-Estimate	V7		USPLEX	US01	2084 97CD6	Installed & Not used	2009-04-01	
21	Allen Systems Group	ASG-Estimate	V7		USPLEX	US02	2084 97CD6	Installed & Not used	2009-04-01	
22	Allen Systems Group	ASG-Insight	V7		AUPLEX	AU01	2094 F484E	Installed & Not used	2009-04-01	
23	Allen Systems Group	ASG-Insight	V7		AUPLEX	AU02	2094 F484E	Installed & Not used	2009-04-01	
24	Allen Systems Group	ASG-Insight	V7		USPLEX	US01	2084 97CD6	Installed & Used (last)	2009-04-01	
25	Allen Systems Group	ASG-Insight	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
26	Allen Systems Group	ASG-Insight	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
27	Allen Systems Group	ASG-Insight	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
28	Allen Systems Group	ASG-Insight	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
29	Allen Systems Group	ASG-Insight	V7		USPLEX	US02	2084 97CD6	Installed & Not used	2009-04-01	
30	Allen Systems Group	ASG-JOB/SCAN	V7		AUPLEX	AU01	2094 F484E	Installed & Not used	2009-04-01	
31	Allen Systems Group	ASG-JOB/SCAN	V7		AUPLEX	AU02	2094 F484E	Installed & Not used	2009-04-01	
32	Allen Systems Group	ASG-JOB/SCAN	V7		USPLEX	US01	2084 97CD6	Installed & Used (last)	2009-04-01	
33	Allen Systems Group	ASG-JOB/SCAN	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
34	Allen Systems Group	ASG-JOB/SCAN	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
35	Allen Systems Group	ASG-JOB/SCAN	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
36	Allen Systems Group	ASG-JOB/SCAN	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
37	Allen Systems Group	ASG-JOB/SCAN	V7		USPLEX	US01	2084 97CD6	Installed & Used (history)	2009-04-01	
38	Allen Systems Group	ASG-JOB/SCAN	V7		USPLEX	US02	2084 97CD6	Installed & Not used	2009-04-01	
39	Allen Systems Group	ASG-Recap	V7		AUPLEX	AU01	2094 F484E	Installed & Not used	2009-04-01	
40	Allen Systems Group	ASG-Recap	V7		AUPLEX	AU02	2094 F484E	Installed & Not used	2009-04-01	
41	Allen Systems Group	ASG-Recap	V7		USPLEX	US01	2084 97CD6	Installed & Not used	2009-04-01	

Sheet1

Draw AutoShapes

Ready

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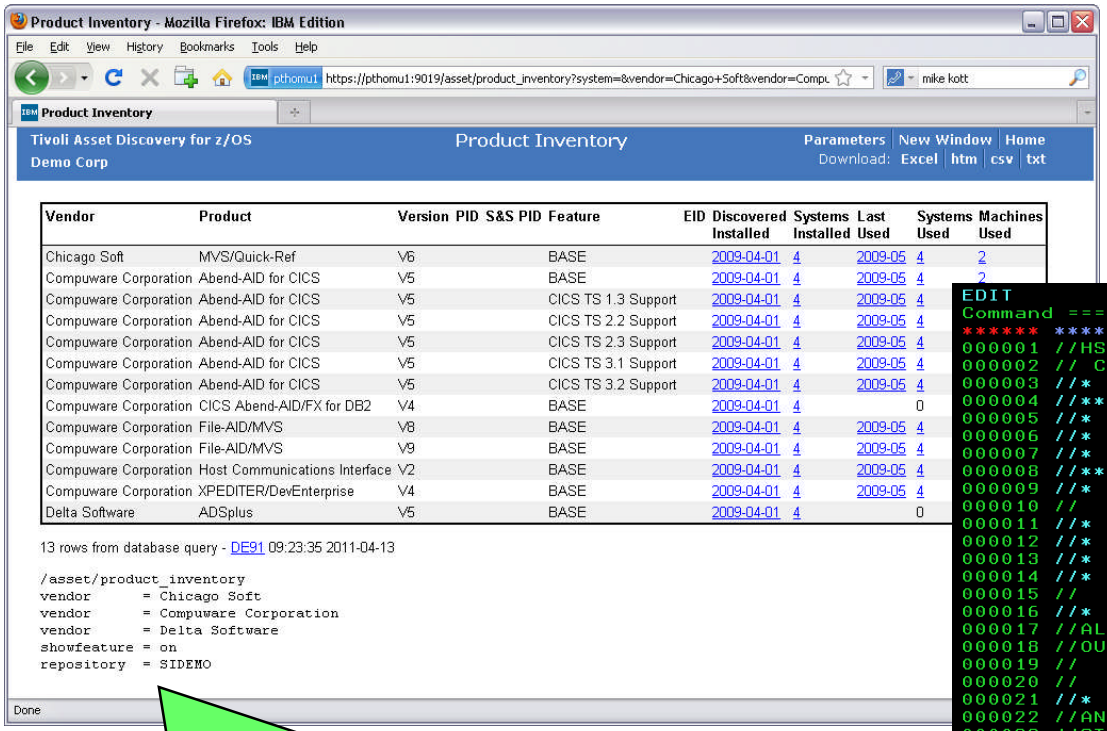
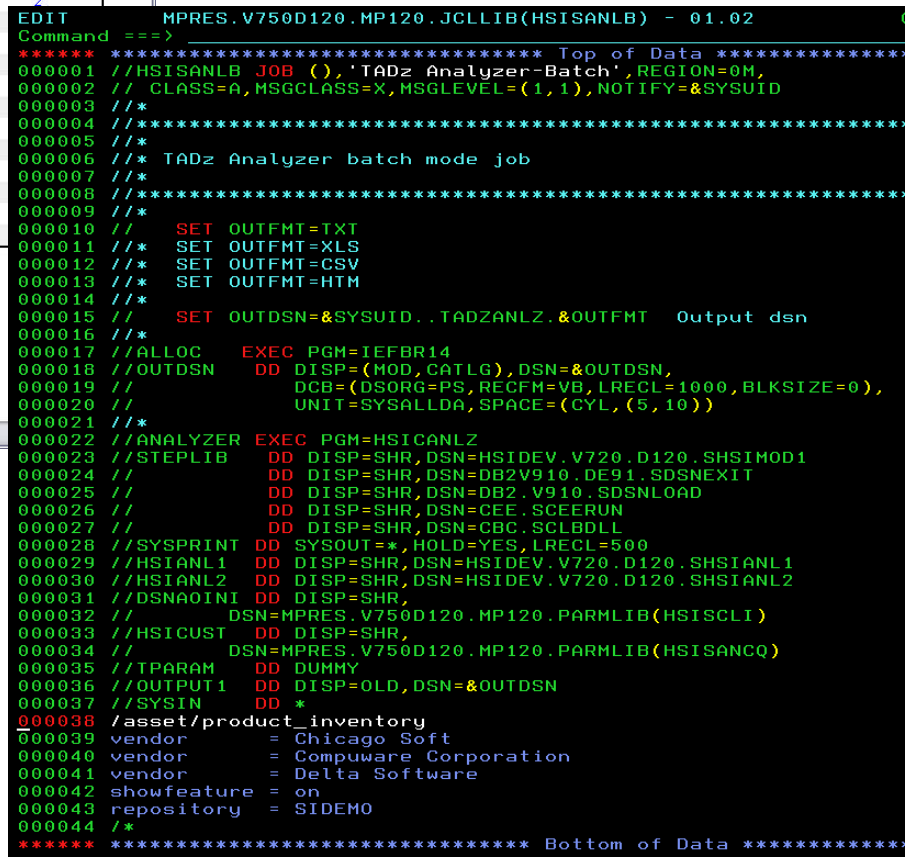
All Analyzer reports can also be run via z/OS batch job





- Batch report syntax is shown at the bottom of each report for easy cut & paste into batch SYSIN deck
- Batch is good for automation and intensive searches

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How to determine the state of mainframe asset discovery & management in your organization ?

The following questions offer a good place to start:

- How are we currently monitoring our System z software assets, usage and licenses?
- How many applications and tools do we have currently deployed?
- What are they and what do they cost?
- Who is using that software and for what?
- How often are those applications being used?
- Are we over or undersubscribed?
- Is that use accurately reflected in chargeback processes?
- Are any applications redundant, out of date or not being used?
- Can any applications be eliminated or consolidated?
- Are all our software licenses up to date?
- Would we be in legal or financial danger if we were audited?

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Software Asset Management - Business Benefits

Audit Risk Reduction

- Software vendor license compliance audits
- World Wide impact of Sarbanes-Oxley Act Section 404

Software Cost Management

- Identification and reduction of no and low use software
- Efficient consolidations (LPAR, Systems)
- Optimize software and hardware capacity upgrades
- Strong vendor contract negotiation leverage
- Reduced software fees
- Disaster recovery and business continuation
- Improve operational performance and reduce maintenance costs
- Invoice validation
- Effective charge-back

Opportunity Creation

- Software dollars can be redeployed to fund new software acquisitions and projects that return business value

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