

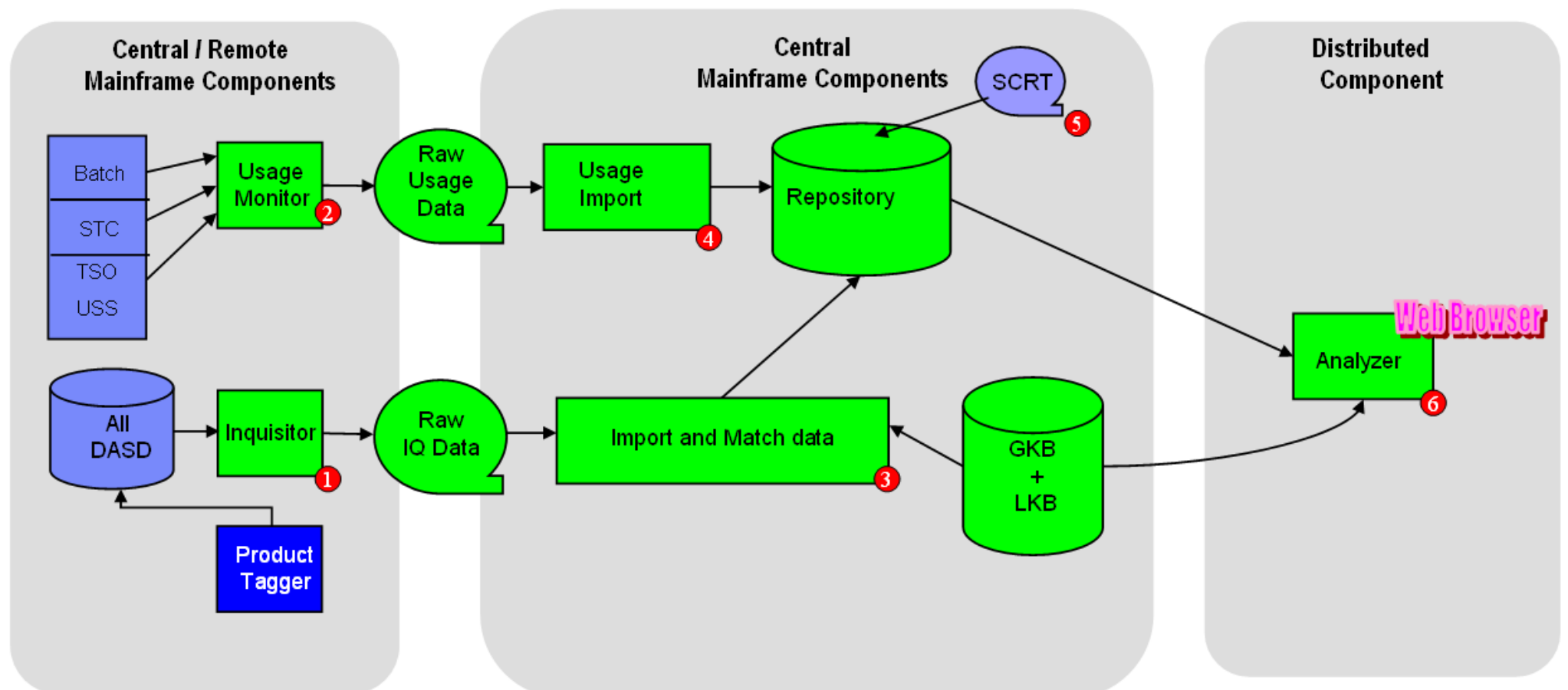
Host Asset Management using IBM's Tivoli Asset Discovery for z/OS

Did you know that there are upwards of 400,000 load modules and Unix executables on an average z/OS operating system. To audit the usage and installation of modules and Unix executables TADz provides an inventory of Software Products installed on a z/Architecture mainframe system running z/OS.

TADz uses the discovery components, Inquisitor and Usage Monitor, which collect raw data about installed Software Products and execution data respectively. The IQ Import and Usage Import process helps to construct a picture of all installed Software Products and their usage. TADz reporting tools enable an analytical examination of Software Products by using standard reports which assist in answering the following questions:

- What software products have been installed?
- In which libraries have they been installed?
- What z/OS LPAR is the software being executed on?
- Which jobs and users have executed them?

TADz V8.1 Overview



1. Inquisitor DASD scan of PDS, PDSE program libraries, HFS and zFS files. z/OS Storage devices may be included.
2. Monitor load module and USS executable usage.
3. Import and match Inquisitor raw data and load into Repository on Central z/OS. Match using GKB/LKB.
4. Import usage monitor data and load into Repository on Central z/OS.
5. Import SCRT data (Optional).
6. Web browser to view Analyzer reports

TADz provides a user with information about installed z/OS Software Products and usage as well as:

- Details about Products that are no longer being used.
- Product Use trends.
- Product End of Service information.
- Reports to assist in Software Vendor talks when negotiating license charges.
- Helping simplify the migration process of z/OS Products to other z/OS Systems by providing details about who is using the product (Userid, Jobname, Account code) and from where (Dataset, System and LPARs).
- An optional IBM SCRT input capability to enable customers to monitor their monthly sub-capacity license charges.
 - Drill down details to assist customers with the information required to move/restrict on which systems products are accessed. This may reduce sub-capacity license charges.
- Identification of Mainframe Storage Subsystem Hardware.
- Discovered Machine Inventory.

TADz reporting

TADz Analyzer enables interactive reporting using a Web Browser with the added ability to save the reports as HTML, CSV, MS Excel and TXT files.

z/OS Batch reporting on the Host is also available.

Sample Web Browser reports

Analyzer Main Menu Assets Tab

Tivoli Asset Discovery for z/OS		Analyzer Menu		New Window	Logoff TADZADM
Assets	Discovery	Administration	Custom		
Analyze high level aggregated data e.g. Product Versions					
Machine Inventory					System z Machine inventory summary
Machine Resources					Machine Resources
Product Inventory					Product version inventory summary
Product Audit Trail					Product version audit trail
Product by System					Cross reference of product versions per System
Product by Sysplex					Cross reference of product versions per Sysplex
Product by System Group					Cross reference of product versions per System Group
Product by Repository					Cross reference of product versions per Repository
Vendor Use by Month					Cross reference of vendor products used per Month by System
Product Use by Month					Cross reference of product versions used per Month by System
Product Use Trend					Product version usage trend chart
Product Use by Machine					Cross reference of product versions used per Machine
Product Use by Machine MSU					Cross reference of product versions by Machine MSU capacity
Product Use by Machine and IBM Value Units					Cross reference of product versions by Machine and Value Units
Registered Products					Products Registered in Parmlib
Registered Product Usage					Usage of Registered Products
Search User Ids					Search product version usage details for user ids
Search Job Names					Search product version usage details for job names
Search Job Account Codes					Search product version usage details for job account codes
Storage Subsystem Hardware					Storage Subsystem Hardware

Analyzer Main Menu Discovery Tab

Tivoli Asset Discovery for z/OS		Analyzer Menu		New Window	Logoff TADZADM
Assets	Discovery	Administration	Custom		
Analyze low level discovery data e.g. Product Releases, Libraries, Modules					
GKB Summary					Summary of products in the Global Knowledge Base catalog
GKB Discovery Summary					Summary of products in the Global Knowledge Base catalog showing which products have been discovered
Discovered Product Summary					Summary of discovered products
Discovered Product Detail					Detail of discovered products
Discovered Product Audit Trail					Audit trail of discovered products
Discovered Product by System					Cross reference of discovered products per System
Discovered Product by Sysplex					Cross reference of discovered products per Sysplex
Discovered Product by System Group					Cross reference of discovered products per System Group
Discovered Product by Repository					Cross reference of discovered products per Repository
Discovered Product Use by Month					Cross reference of discovered products used per Month by System
End of Service Products					Summary of discovered products that have a known End of Service date
Product Change Reports					What has changed reports
Product Libraries					Summary of discovered product libraries
Product Library Usage					Summary of discovered product library usage
Volumes by System					Summary of discovered library volumes by system
Dataset HLQs by System					Summary of discovered dataset high level qualifiers by system
Libraries by System					Summary of discovered libraries by system
Search Libraries					Search Libraries, with optional filters for library name mask and containing module name mask
Search Modules					Search Modules, with optional filters for module name mask and library name mask
Job Use by Product Library					Product release usage summary per Job name and Product Library
Usage Monitor File Detail					Inspect usage detail in Usage Monitor raw data zip files or ZCAT zip files

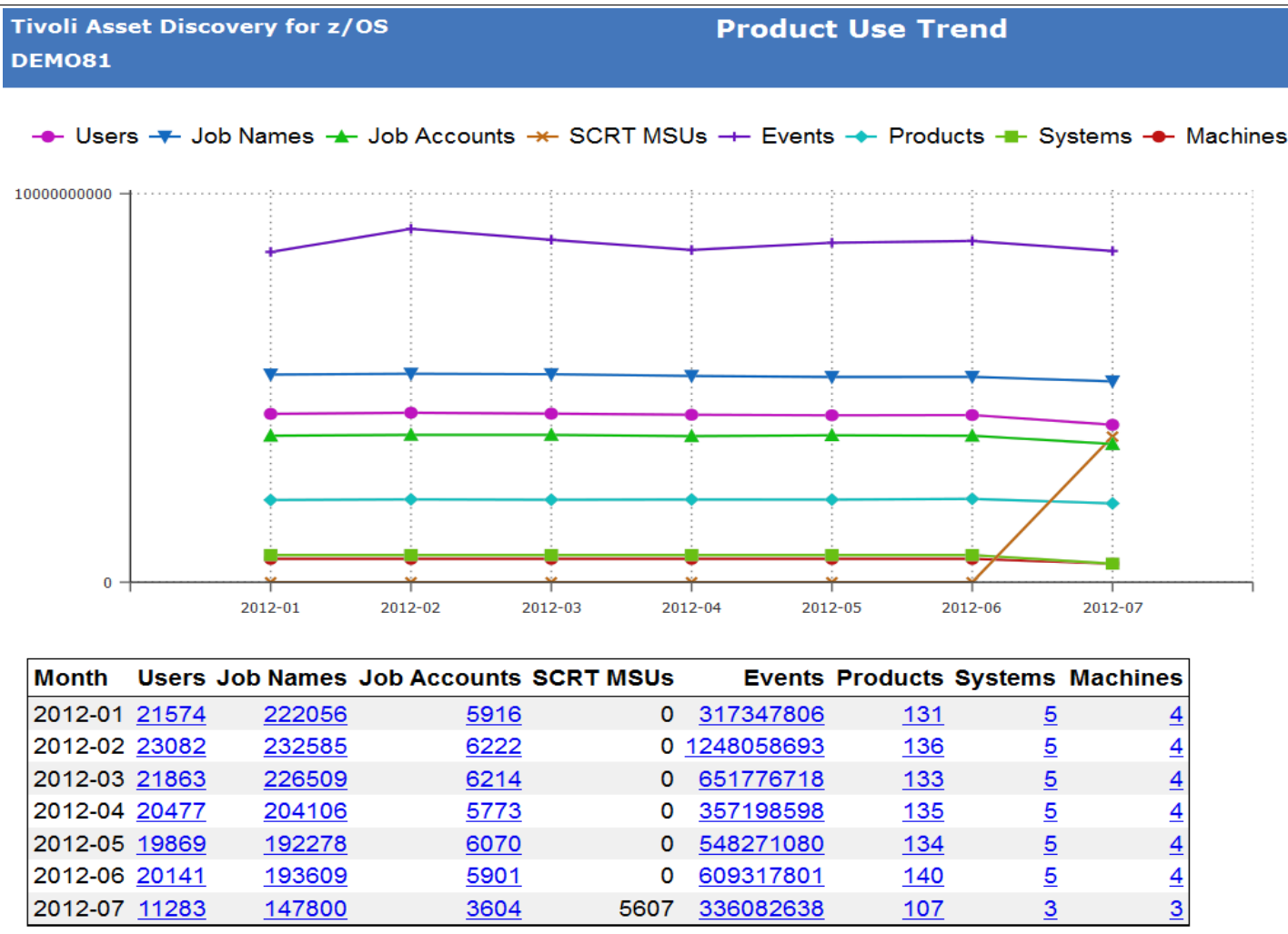
Machine Inventory Report

Tivoli Asset Discovery for z/OS DEMO81																	Machine Inventory		Parameters		New Window		Home	
																	Download:		Excel	htm	csv	txt		
HW Type	HW Model	Cap Model	HW Plant	HW Serial	HW Name	Type	LPAR Number	LPAR Name	IP Address	Hostname	CEC MSU	LPAR MSU	Max SCRT-MSU	Total Processors	CPU Online	zAAP Online	zIIP Online	Crypto Online	Crypto Installed	Total Systems	Memory			
2094	S08		51	F9FA1	CECNRMU	HW					240		131											
2094	S08		51	F9FA1	CECNRMU	LPAR	3	LPNRMU03	192.168.123.87		240	3	5	4	0	1	0	0	0	24576	US02			
2094	S08		51	7594F	CECNRMO	HW					339		287											
2094	S08		51	7594F	CECNRMO	LPAR	1	LPNRM001	192.168.123.88		339	287	7	6	0	1	0	0	0	53248	US03			
2097	E26		51	B99E2	CECNRMV	HW					455		176											
2097	E26		51	B99E2	CECNRMV	LPAR	1	LPNRMV01	192.168.123.86		455	118	4	3	0	1	0	0	0	49152	US01			
2817	M32		51	9C076	CPCECNJ	HW					204													
2817	M32		51	9C076	CPCECNJ	LPAR	1	LPWSNM01	192.168.123.90		204		4	3	0	1	0	0	0	73728	AU02			
2817	M32		51	9C076	CPCECNJ	LPAR	5	LPWSNM05	192.168.123.89		204		3	2	0	1	0	0	0	4096	AU01			

Product Audit Trail

Tivoli Asset Discovery for z/OS DEMO81																	Product Audit Trail		Parameters		New Window		Home	
																	Download:		Excel	htm	csv	txt		
Vendor	Product	Version	Sysplex	System	Machine	Status	Discovered Installed	Discovered Un-installed	Usage Month	Users	Job Names	Job Accounts	Events	SCRT MSU	First Used	Last Used								
IBM	z/OS	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-03	1667	20181	494	9323881		2012-03-01	2012-03-31								
IBM	z/OS	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-02	1625	19892	488	11164089		2012-02-01	2012-02-29								
IBM	z/OS	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-05	1614	19649	470	10148158		2012-05-01	2012-05-31								
IBM	z/OS	V1	USPLEX	US01	2097 B99E2	Installed & Used (last)	2012-02-01		2012-07	1609	19312	478	14665622	116	2012-07-01	2012-07-31								
IBM	z/OS	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-06	1599	20290	462	14501332		2012-06-01	2012-06-30								
IBM	z/OS	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-01	1599	19241	474	8100868		2012-01-01	2012-01-31								
IBM	z/OS	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-04	1562	19173	452	7877472		2012-04-01	2012-04-30								
IBM	Library for REXX zSeries	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-06	1453	3968	324	4931911		2012-06-01	2012-06-30								
IBM	Library for REXX zSeries	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-03	1411	4049	344	4704799		2012-03-01	2012-03-31								
IBM	Library for REXX zSeries	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-02	1373	3830	343	3070349		2012-02-01	2012-02-29								
IBM	Library for REXX zSeries	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-05	1366	3855	326	5097374		2012-05-01	2012-05-31								
IBM	Library for REXX zSeries	V1	USPLEX	US01	2097 B99E2	Installed & Used (last)	2012-02-01		2012-07	1353	3916	330	5104595		2012-07-01	2012-07-31								
IBM	Library for REXX zSeries	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-01	1348	3831	333	2985855		2012-01-01	2012-01-31								
IBM	Library for REXX zSeries	V1	USPLEX	US01	2097 B99E2	Installed & Used (history)	2012-02-01		2012-04	1312	3798	309	4140501		2012-04-01	2012-04-30								
IBM	z/OS	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-03	1251	10317	313	34552921		2012-03-01	2012-03-31								
IBM	z/OS	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-01	1241	9083	303	10733327		2012-01-01	2012-01-31								
IBM	z/OS	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-05	1210	8933	311	25732365		2012-05-01	2012-05-31								
IBM	z/OS	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-02	1207	9953	325	36549880		2012-02-01	2012-02-29								
IBM	z/OS	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-04	1179	8115	292	18927248		2012-04-01	2012-04-30								
IBM	z/OS	V1	AUPLEX	AU02	2817 9C076	Installed & Used (last)	2012-02-01		2012-06	1175	8824	304	24048896		2012-06-01	2012-06-30								
IBM	Library for REXX zSeries	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-01	1090	2764	212	1626155		2012-01-01	2012-01-31								
IBM	Library for REXX zSeries	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-03	1082	3016	213	2034729		2012-03-01	2012-03-31								
IBM	Library for REXX zSeries	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-02	1057	2846	213	1841480		2012-02-01	2012-02-29								
IBM	Library for REXX zSeries	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-05	1053	2816	203	2182829		2012-05-01	2012-05-31								
IBM	Library for REXX zSeries	V1	AUPLEX	AU02	2817 9C076	Installed & Used (history)	2012-02-01		2012-04	1020	2506	199	1851133		2012-04-01	2012-04-30								
IBM	Library for REXX zSeries	V1	AUPLEX	AU02	2817 9C076	Installed & Used (last)	2012-02-01		2012-06	1008	2697	201	1823760		2012-06-01	2012-06-30								
IBM	z/OS	V1	USPLEX	US03	2094 7594F	Installed & Used (history)	2012-02-01		2012-02	464	11614	108	4187385		2012-02-01	2012-02-29								
IBM	z/OS	V1	USPLEX	US03	2094 7594F	Installed & Used (history)	2012-02-01		2012-04	438	11356	111	4228204		2012-04-01	2012-04-30								

Product Use Trend



For a live TADz demo contact the development team via Email, TADz Wiki or Forum

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<http://tinyurl.com/IBM-TADzWiki>

<http://tinyurl.com/TADz-Forum>