Managing software inventory

IBM License Metric Tool 9.0

Questions & Answers

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Welcome

- This is the twenty-fourth Q&A event prepared by the ILMT Central Team
- Currently we focus on License Metric Tool version 9.0
- The session is for IBMers, Business Partners, and Customers
- The teleconference is set to mute. Use the web conference chat to communicate with the ILMT subject matter experts
- The presentation is recorded and will be available to watch on ILMT YouTube channel as well as to download from the ILMT Wiki soon

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https://www.ibm.com/developerworks/connect/ibmlicensemetrictool

https://www.ibm.com/developerworks/connect/wiki_ibmlicensemetrictool

http://www.youtube.com/user/IBMLicenseMetricTool

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https://www.linkedin.com/groups/IBMLicenseMetricTool-7498856

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Table of Contents

- Software asset management dashboard
  - IBM Capacity Data Completeness
  - IBM PVU Subcapacity
  - IBM Software Classification
  - Inventory Data
  - IBM Software Catalog
- IBM Software Catalog
- Reviewing software inventory
- IBM Software Classification panel
- Reports - overview
- Questions & Answers
- Survey

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Software asset management dashboard

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ILMT 9.0 – Software asset management dashboard

Home page of the IBM License Metric Tool 9.0 Web user interface (WebUI)

- Top menu bar
  - Dashboard link (Home)
  - Reports menu
  - Management menu
  - Profile menu
  - Help menu
- Five widgets on the dashbord

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ILMT 9.0 – SAM dashboard – IBM PVU Subcapacity

- IBM PVU Subcapacity widget presents products with the highest PVU consumption rate (up to five products)
- Every bar shows how many PVUs are consumed by a product
- Data on this widget is visible after the software inventory scan has been performed, the results uploaded and processed by the ILMT server
- Rights required to view the widget:
  - View License Metrics permission
  - Administrators or Auditors, or Software Asset Managers role

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ILMT 9.0 – SAM dashboard – IBM PVU Subcapacity (cont.)

- Full name of the product is displayed after hovering over each of the bars

- Current PVU table version is also visible there

The current version of the PVU table is 05/15/2014

- There are three direct links to ease the navigation
  - IBM PVU Subcapacity
  - PVU table download site
  - Metric Table Upload

See all products

The current version of the PVU table is 05/15/2014.
Check whether a new version was published. If a new PVU table is available, upload it.

http://www-01.ibm.com/support/docview.wss?uid=swg24036440

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ILMT 9.0 – SAM dashboard – IBM Software Classification

- IBM Software Classification widget presents the status of confirmed and unconfirmed software products in the monitored infrastructure
- Confirmed Classifications means the list of products that have at least one discovered component instance confirmed
- Unconfirmed Classifications means the list of products that have at least one discovered component instance unconfirmed
- Rights required to view the widget:
  - Manage IBM Software Classification permission
  - Administrators or Software Asset Managers role

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ILMT 9.0 – Dashboard – IBM Software Classification (cont.)

- Confirmed and Unconfirmed Classifications links points to the IBM Software Classification panel with filtered product list of confirmed or unconfirmed discovered component instances

- IBM Software Classification link points to the same panel however with no filtering (all instances are displayed)

- The timestamp of the last part numbers import is visible there

- There is additional direct link to Part Numbers Upload to ease the navigation

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ILMT 9.0 – Dashboard – IBM Capacity Data Completness

- IBM Capacity Data Completness widget presents the status of ILMT agents (ILMT fixlets for IEM clients)
- Every status other than OK is represented by one bar – the ideal situation is an empty widget
- Rights required to view the widget
  - View Hardware Inventory permission
  - Administrators or Auditors, or Software Asset Managers role

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ILMT 9.0 – Dashboard – IBM Capacity Data Completness

- Every status is linked to Inventory Data panel where the monitored computers are filtered by chosen status

- There is additional direct link to Part Numbers Upload to ease the navigation

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ILMT 9.0 – SAM dashboard – Inventory Data

- IBM Inventory Data widget presents an inventory data summary
- It contains inventory elements of the monitored infrastructure including installed software as well as computers and user-defined computers groups
- The most frequent items are presented by name
- Rights required to view the widget:
  - View Endpoints permission
  - Administrators or Auditors, or Software Asset Managers role

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ILMT 9.0 – SAM dashboard – Inventory Data (cont.)

- There are three direct links on the Inventory Data widget:
  - Software Installations
  - Computer Groups
  - Computers

Computer Name	Last Seen	Publisher Name	Name	Version	Details
NC9143126146	26 minutes ago	IBM	WebSphere Application Server Network D...	8.5	DETAILS >
NC9143126146	26 minutes ago	IBM	IBM DB2 Enterprise Server Edition Unlice...	10.5	DETAILS >
NC9143126146	26 minutes ago	IBM	IBM Database Enterprise Developer Edition	10.5	DETAILS >
NC9143126146	26 minutes ago	IBM	IBM Endpoint Manager Platform Agent	9.1	DETAILS >
NC9143126143	25 minutes ago	IBM	WebSphere Application Server Network D...	8.5	DETAILS >
NC9143126143	25 minutes ago	IBM	IBM Endpoint Manager Platform Agent	9.1	DETAILS >
NC106178	24 minutes ago	IBM	IBM JavaTM Standard Edition	6.2	DETAILS >

ID	Name	Description	Children	Computers
1	Windows computers	Windows computers	0	3
2	Unix computers	Unix computers	0	9
3	Agents 9.1.x	Computers with installed IEM agents in version 9.1.x	0	11
4	Agents 9.0.x	Computers with installed IEM agents in version 9.0.x	0	1
5	Hosts in kraklab	Hosts that reside inside Krakow Software Lab	0	9
6	Hosts elsewhere	Hosts that reside outside of Krakow Software Lab	0	3

ID	Computer Name	Data Source Name	Last Seen	Operating System	DNS Name	Agent Version	Latest Scan Import	Computer ID	Installed Software
1	NC9128111205	Data Source	19 minutes ago	Linux Red Hat Enterprise Server 6.4 (2.6.32-358.el6.x86_64)	NC9128111205.kraklab.pl.ibm.com	9.1.1082.0	07/04/2014 02:00 AM	16221522	6
2	NC9143126146	Data Source	18 minutes ago	Linux Red Hat Enterprise Server 6.5 (2.6.32-431.el6.x86_64)	NC9143126146.kraklab.pl.ibm.com	9.1.1082.0	06/26/2014 05:25 PM	2786379	4
3	NC9143126143	Data Source	19 minutes ago	Linux Red Hat Enterprise Server 6.5 (2.6.32-431.el6.x86_64)	NC9143126143.kraklab.pl.ibm.com	9.1.1082.0	06/26/2014 05:25 PM	10729981	2
4	NC9143126148	Data Source	26 minutes ago	Win2008 6.0.6002	NC9143126148	9.1.1082.0	06/27/2014 02:00 AM	4627290	2
5	NC9143126147	Data Source	29 minutes ago	Win2008R2 6.1.7601	NC9143126147	9.1.1082.0	06/27/2014 02:00 AM	10390595	3
7	NC106178	Data Source	18 minutes ago	AIX 6.1	NC106178.kraklab.pl.ibm.com	9.1.1082.0	07/04/2014 02:00 AM	15732269	6
8	NC047005	Data Source	28 minutes ago	Win2012 6.2.9200	NC047005.cluster.com	9.1.1082.0	06/26/2014 05:25 PM	1132655	3
9	NC142184	Data Source	19 minutes ago	Linux SuSE Enterprise Server 11 (3.0.13-0.27-default)	NC142184.kraklab.pl.ibm.com	9.0.835.0	06/26/2014 05:25 PM	15071897	3
10	NC9143126027	Data Source	19 minutes ago	Linux Red Hat Enterprise Server 6.5 (2.6.32-431.el6.x86_64)	NC9143126027.kraklab.pl.ibm.com	9.1.1082.0	06/26/2014 05:25 PM	12307609	2
11	NC106166	Data Source	16 minutes ago	AIX 7.1	NC106166.kraklab.pl.ibm.com	9.1.1082.0	07/04/2014 02:00 AM	8450537	6
12	NC106177	Data Source	18 minutes ago	AIX 7.1	NC106177.kraklab.pl.ibm.com	9.1.1082.0	07/04/2014 02:00 AM	16136292	6
13	NC106207	Data Source	17 minutes ago	AIX 6.1	NC106207.kraklab.pl.ibm.com	9.1.1082.0	07/04/2014 02:00 AM	12549005	6

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ILMT 9.0 – SAM dashboard – Software Catalog

- Software Catalog widget presents summary of current software catalog data
- Rights required to view the widget:
  - View Software Catalogand Signatures permission
  - Administrators or Auditors role, or Software Asset Managers
- All presented elements are searchable:
  - Publishers
  - Software Products
  - Software Versions
  - Software Releases
  - Software Components
  - Signatures
- Additionally:
  - Catalog Providers

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ILMT 9.0 – SAM dashboard – Software Catalog (cont.)

- There are six direct links to different SAM items

3 Publishers
9,036 Software Products
12,553 Software Versions
18,059 Software Releases
9,058 Software Components
27,523 Signatures

- Current Software catalog version is there

Version: 1077371 (05/22/2014 11:12 AM)

- Simple search form is also present on the widget

Catalog Search
All | Search

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IBM Software Catalog

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ILMT 9.0 MSI – IBM Software Catalog

- IBM software is tagged and the information included in IBM Software Catalog is provided by the teams developing the software as part of software development process at IBM
- IBM License Metric Tool requires the following information to be able to detect software and to allow creation of license consumption reports (e.g. PVU reports)
  - way of detecting software component (signature)
  - license information
    - software product definitions
    - software product charge units
    - part numbers
    - bundled products
    - included components

https://w3-connections.ibm.com/wikis/home/wiki/IBM+Software+Catalog+Team+WIKI/page/Welcome
http://software.bigfix.com/download/tema/catalog/9.0_GA/SR/ILMT_catalog_release_notes.txt

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ILMT 9.0 MSI – IBM Software Catalog (cont.)

- An initial software catalog is included in the tool
- Currently IBM Software Catalog is distributed as an XML file plus two CSV files with extended charge unit information
- After importing the catalog, ILMT keeps it in the database in different tables
- Software catalog is updated on a monthly basis (ensure that you update it regularly, especially if you install new IBM software in your network)
- Every new catalog version contains easily accessed release notes with all changes documented inside

https://w3-connections.ibm.com/wikis/home/wiki/IBM+Software+Catalog+Team+WIKI/page/Welcome
http://software.bigfix.com/download/tema/catalog/9.0_GA/SR/ILMT_catalog_release_notes.txt

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ILMT 9.0 MSI – IBM Software Catalog - Elements

- The Software Catalog contains data about the following knowledge base entries:
  - Publishers
  - Software items
  - Aliases
  - Software relationships
  - Signatures
- Software items can be classified as two software types
  - Software products
  - Software components
- For every type of software, a three-level hierarchy can be defined:
  - Parent product level
  - Versions
  - Releases
- Signatures are tags, files, registry entries, or other types of information which is unique to a given software release and can be used to identify it
- Currently, the discovery process is mainly based on tags

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ILMT 9.0 MSI – IBM Software Catalog – Hierarchy

- Every product has one publisher
- Every product may have one or many versions
- Every version may have one or many releases
- Every release may have one or many components
- Every component may have one or many discovery signatures
- Every component may have zero, one, or many usage signatures

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ILMT 9.0 MSI – IBM Software Catalog – Publishers

- Every software item in the software catalog must be associated with a software publisher
- In ILMT 9.0 there is one main publisher, **IBM,** and two additional publishers included because of the following products:
  - Red Hat Enterprise Linux for POWER
  - SUSE LINUX Enterprise Server for POWER Systems
- From publishers table user can drill down to all products of a chosen publisher

Name	Software Catalog	Website	Creation	Modification	Total Software Products
IBM	IBM Internal Development	http://www.ibm.com	05/07/2014 08:48 AM	05/07/2014 08:48 AM	9,034
RED HAT	IBM Internal Development		02/11/2008 11:07 AM	06/26/2008 07:11 PM	1
SUSE	IBM Internal Development		02/11/2008 11:07 AM	06/26/2008 07:11 PM	1

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ILMT 9.0 MSI – IBM Software Catalog – Software Products

- Software product is a logical unit of software packaging and sharing that has a managed development and maintenance life cycle and defined attributes such as license type
- Although in real, software product can be a collection of components as well as other products in ILMT the structure is flattened this way that every product contains all his components from the whole hierarchy
- PVU and MAPC RVU are calculated by ILMT always for products
- From products table user can drill down to all versions of chosen product

Publisher Name	Name	Software Catalog	Total Versions	Creation	Modification
IBM	DB2 Everyplace Edition	IBM Internal Development	1	04/30/2007 02:29 PM	05/29/2009 03:20 PM
IBM	DB2 Extenders	IBM Internal Development	2	07/15/2010 08:35 PM	07/15/2010 08:35 PM
IBM	IBM DB2 Enterprise Server Edition	ILMT Readiness 3.1	4	11/05/2013 12:33 PM	11/05/2013 12:33 PM
IBM	IBM DB2 Enterprise Server Edition - Authorized User Single Install Option	IBM Internal Development	1	01/16/2013 02:10 PM	01/16/2013 02:10 PM
IBM	IBM DB2 Enterprise Server Edition - User Option	IBM Internal Development	1	06/26/2008 08:46 PM	06/26/2008 08:46 PM
IBM	IBM DB2 Enterprise Server Edition Authorized User Single Install	ILMT Readiness 3.1	3	04/01/2014 10:24 AM	04/01/2014 10:24 AM
IBM	IBM DB2 Enterprise Server Edition OEM Limited Use	ILMT Readiness 3.1	2	04/01/2014 10:24 AM	04/01/2014 10:24 AM
IBM	IBM DB2 Enterprise Server Edition OEM Limited Use	IBM Internal Development	1	04/09/2010 12:21 PM	04/09/2010 12:21 PM
IBM	IBM DB2 Enterprise Server Edition PVU Option	ILMT Readiness 3.1	6	04/30/2014 01:27 PM	04/30/2014 01:27 PM

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ILMT 9.0 MSI – IBM Software Catalog – Software Versions

- Software version is a software element immediately subordinate to product
- It can only be subordinate to one product and can group one or more releases
- From versions table user can drill down to all releases of chosen version

Name	Version	Software Catalog	Total Releases	Creation	Modification
DB2 Everyplace Edition	8	IBM Internal Development	1	04/30/2007 02:29 PM	10/22/2008 02:11 PM
DB2 Extenders	5	IBM Internal Development	3	07/15/2010 08:35 PM	07/15/2010 08:35 PM
DB2 Extenders	6	IBM Internal Development	1	07/15/2010 08:37 PM	07/15/2010 08:37 PM
IBM DB2 Enterprise Server Edition	7	IBM Internal Development	1	10/18/2004 12:14 PM	07/27/2009 11:57 AM
IBM DB2 Enterprise Server Edition	6	IBM IGS Signature Bank	1	02/12/2008 10:48 PM	07/27/2009 11:57 AM
IBM DB2 Enterprise Server Edition	5	IBM IGS Signature Bank	1	02/12/2008 10:49 PM	07/27/2009 11:57 AM
IBM DB2 Enterprise Server Edition	8	ILMT Readiness 3.1	2	11/05/2013 12:33 PM	11/05/2013 12:33 PM
IBM DB2 Enterprise Server Edition - Authorized User Single Install Option	10	IBM Internal Development	1	01/16/2013 02:10 PM	01/16/2013 02:10 PM
IBM DB2 Enterprise Server Edition - User Option	9	IBM Internal Development	1	06/26/2008 08:42 PM	06/26/2008 08:42 PM
IBM DB2 Enterprise Server Edition Authorized User Single Install	8	IBM Internal Development	1	10/08/2009 12:39 PM	02/29/2012 08:20 AM
IBM DB2 Enterprise Server Edition Authorized User Single Install	10	ILMT Readiness 3.1	2	04/01/2014 10:24 AM	04/01/2014 10:24 AM

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ILMT 9.0 MSI – IBM Software Catalog – Software Releases

- Software release is a software element immediately subordinate to version
- It can only be subordinate to one version and can group one or more variations
- Signatures are linked to components at release level
- On releases table there is a link to drill down to all components of chosen release

Name	Release	Software Catalog	Total Components	Creation	Modification
DB2 Everyplace Edition	8.2	IBM Internal Development	1	04/30/2007 02:29 PM	05/07/2009 11:29 AM
DB2 Extenders	5.2	IBM Internal Development	1	07/15/2010 08:35 PM	07/15/2010 08:35 PM
DB2 Extenders	5.3	IBM Internal Development	1	07/15/2010 08:36 PM	07/15/2010 08:36 PM
DB2 Extenders	5.4	IBM Internal Development	1	07/15/2010 08:37 PM	07/15/2010 08:37 PM
DB2 Extenders	6.1	IBM Internal Development	1	07/15/2010 08:38 PM	07/15/2010 08:38 PM
IBM DB2 Enterprise Server Edition	7.1	IBM Internal Development	1	10/18/2004 12:14 PM	08/17/2010 08:54 AM
IBM DB2 Enterprise Server Edition	8.1	IBM Internal Development	1	01/12/2005 05:39 PM	08/17/2010 08:54 AM
IBM DB2 Enterprise Server Edition	8.2	IBM Internal Development	5	03/23/2005 03:04 PM	08/17/2010 08:54 AM
IBM DB2 Enterprise Server Edition	6.1	IBM IGS Signature Bank	1	02/12/2008 10:48 PM	08/17/2010 08:54 AM
IBM DB2 Enterprise Server Edition	5.2	IBM IGS Signature Bank	1	02/12/2008 10:49 PM	08/17/2010 08:54 AM
IBM DB2 Enterprise Server Edition -...	10.1	IBM Internal Development	1	04/02/2012 11:33 AM	04/02/2012 11:33 AM

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ILMT 9.0 MSI – IBM Software Catalog – Components

- Component is a unit of software that can be detected as installed or running on computer systems independently of other software items
- It is always a part of a software product
- It is not individually licensed

IBM License Metric Tool | Home | Reports | Management | ilmtadmin

Software Components

(Base Report) | Save | Save As... | Schedule... | CSV | PDF | 72 rows (filtered) | Configure View...

Component Name	Component Version	Software Catalog	Description	Total Releases	Creation	Modification
DB2 Everyplace Edition	8.2	IBM Internal Development	<no data>	1	04/30/2007 02:29 PM	06/26/2008 08:43 PM
DB2 Extenders	5.2	IBM Internal Development	<no data>	1	07/15/2010 08:35 PM	07/15/2010 08:35 PM
DB2 Extenders	5.3	IBM Internal Development	<no data>	1	07/15/2010 08:36 PM	07/15/2010 08:36 PM
DB2 Extenders	5.4	IBM Internal Development	<no data>	1	07/15/2010 08:37 PM	07/15/2010 08:37 PM
DB2 Extenders	6.1	IBM Internal Development	<no data>	1	07/15/2010 08:38 PM	07/15/2010 08:38 PM
IBM DB2 Enterprise Server Edition - Authorized User	9.5	IBM LMT Product Enablement	<no data>	1	10/25/2007 04:57 PM	12/01/2008 04:23 PM
IBM DB2 Enterprise Server Edition - Authorized User Option	9.7	IBM Internal Development	<no data>	1	06/18/2009 10:27 AM	06/18/2009 10:27 AM
IBM DB2 Enterprise Server Edition - Authorized User Single Install Option	10.1	IBM Internal Development	<no data>	3	04/02/2012 11:33 AM	04/02/2012 11:33 AM
IBM DB2 Enterprise Server Edition - CPU Option	9.1	IBM LMT Product Enablement	<no data>	1	02/07/2007 10:28 AM	06/26/2008 08:42 PM
IBM DB2 Enterprise Server Edition - CPU Option	9.5	IBM LMT Product Enablement	<no data>	1	10/25/2007 04:57 PM	06/26/2008 08:43 PM
IBM DB2 Enterprise Server Edition - CPU Option	9.7	IBM Internal Development	<no data>	1	06/18/2009 10:28 AM	06/18/2009 10:28 AM
IBM DB2 Enterprise Server Edition - CPU Option	10.1	IBM Internal Development	<no data>	1	04/02/2012 11:33 AM	04/02/2012 11:33 AM
IBM DB2 Enterprise Server Edition - User Option	9.1	IBM LMT Product Enablement	<no data>	3	02/07/2007 10:28 AM	06/26/2008 08:42 PM
IBM DB2 Enterprise Server Edition Authorized User Single Install	10.5	ILMT Readiness 3.1	<no data>	1	06/06/2013 01:59 PM	06/06/2013 01:59 PM
IBM DB2 Enterprise Server Edition OEM Limited Use	9.1	IBM Internal Development	<no data>	3	04/09/2010 12:21 PM	04/09/2010 12:21 PM

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ILMT 9.0 MSI – IBM Software Catalog – Signatures

Signatures characteristics:

- Every signature has unique identifier
- Every signature has defined creation timestamp and also moditication timestamp. If no modifications was done, those dates are equal
- One signature can be defined just for one component in particular release
- One signature can be for:
  - Discovery
  - Usage
  - Both
- One component can have 1 or many discovery signature
- One component can have 0, 1 or many usage signatures
- Signature can be for one parficular platform or for predefined group:
  - AIX
  - HPUX
  - IBM i
  - Linux
  - Sun
  - Windows

  or
  - UNIX
  - Any Operating System

Publisher Name	Name	Version	Platform Name	Discovery	Usage	Signature ID
IBM	IBM WebSphere Application Server Network Deployment	8.5	Any Operating System	Yes	No	e5b9794f-d0ad-433b-80b9-41daaef9218b
IBM	IBM WebSphere Application Server Network Deployment	8.0	Any Operating System	No	Yes	5d9eddc8-a398-4c3f-86d0-f37b043bb755
IBM	IBM WebSphere Application Server Network Deployment	8.0	Any Operating System	Yes	No	e36702ee-5bdb-4411-a7ec-45c2ab59162b
IBM	IBM WebSphere Application Server Network Deployment	7.0	Any Operating System	No	Yes	02079672-710b-4b4d-a8e3-ebcfbd9b5406
IBM	IBM WebSphere Application Server Network Deployment	7.0	Any Operating System	No	Yes	bceda90f-5ad2-4e61-bd42-300150b8413e
IBM	IBM WebSphere Application Server Network Deployment	7.0	Any Operating System	No	Yes	28f2d0ff-710c-4589-8cf4-f0cc0d2a6ffb
IBM	IBM WebSphere Application Server Network Deployment	7.0	Any Operating System	No	Yes	cbc39d46-69d3-4b39-a106-a8b2dc87bc41
IBM	IBM WebSphere Application Server Network Deployment	7.0	Any Operating System	No	Yes	407b8a90-d72f-4b69-976a-bc27c5fc4dd0
IBM	IBM WebSphere Application Server Network Deployment	7.0	Any Operating System	Yes	No	962f4f1d-368e-4bf2-aa64-acd8e04b59c9
IBM	IBM WebSphere Application Server Network Deployment	7.0	Any Operating System	No	Yes	f68cb711-ec91-4826-a852-fe3089e790d7
IBM	IBM WebSphere Application Server Network Deployment	6.1	Any Operating System	No	Yes	8938fd3e-6716-4a59-b49a-7e83e687c9ba
IBM	IBM WebSphere Application Server Network Deployment for i5/OS	6.1	IBM i	Yes	No	32b741ec-f3b4-4e0d-9435-c0fd2ef3c3c8
IBM	IBM WebSphere Application Server Network Deployment	6.1	Any Operating System	No	Yes	bb501e90-44ec-496e-91d1-fcc2dd764039
IBM	IBM WebSphere Application Server Network Deployment	6.1	Any Operating System	No	Yes	4779daba-7188-4b58-96ed-60926ceb0e83
IBM	IBM WebSphere Application Server Network Deployment	6.1	Any Operating System	No	Yes	e892533e-b8b5-415d-951a-ba2e832e300d
IBM	IBM WebSphere Application Server Network Deployment	6.1	Any Operating System	No	Yes	5d910417-0ddc-44b8-83bb-1a457befd3b3
IBM	IBM WebSphere Application Server Network Deployment	6.1	Any Operating System	No	Yes	4604b444-bdb2-46ca-aef1-f38ac892b859

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ILMT 9.0 MSI – IBM Software Catalog – Catalog Providers

- Catalog providers (also known as definition sources) give information how particular software element entered IBM Software Catalog
- Curently there are six different sources of elements in ILMT 9.0
  - IBM Base Catalog
  - IBM IGS Signature Bank
  - IBM Internal Development
  - IBM LMT Product Enablement
  - ILMT Readiness 3.1
  - ILMT Readiness 4.0

Catalog Provider	Description	Parent Organization	Total Publishers	Total Software Products	Total Versions	Total Releases	Total Components	Total Signatures
IBM Base Catalog	IBM Base Catalog	IBM	0	99	107	114	117	0
IBM IGS Signature Bank	IBM IGS Signature Bank	IBM	0	27	101	145	141	0
IBM Internal Development	IBM Internal Development	IBM	3	6,741	9,874	14,973	6,087	24,869
IBM LMT Product Enablement	IBM LMT Product Enablement	IBM	0	373	453	724	897	0
ILMT Readiness 3.1	IBM Product Enabled trough ILMT Readiness Process	IBM	0	1,796	2,018	2,103	1,816	2,650
ILMT Readiness 4.0	IBM Product Enabled trough ILMT Readiness Process	IBM	0	0	0	0	0	4

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ILMT 9.0 MSI – IBM Software Catalog – Use case scenarios

Thanks to improvements implemented in software catalog for IBM License Metric Tool in version 9.0, some general use cases can be fullfilled now

1. I have ILMT deployed, my endpoints were correctly scanned and the software scan results have been processed by the server. Why my component was not discovered?
2. Before I decide to deploy ILMT agent on some of my endpoints, I want to make sure my particular software will be discovered. How to do this?
3. I'm waiting for adding new product to software catalog. Is it already done?
4. I'm waiting for particular modification in software catalog. Is it already implemened?

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ILMT 9.0 MSI – IBM Software Catalog – Use case scenarios

Examples:

1. Why my component IBM HTTP Server WAS Hypervisor in version 8.5 was not discovered?
2. I want to make sure that ILMT will be able to discover WebSphere Application Server Liberty Core 8.5
3. I'm waiting for adding the hierarchy of IBM WebSphere Portal Extend 8.5 to the catalog. Is it already done?
4. I'm waiting for a fix on IBM Tivoli Configuration Manager's signatures for Unixes. Is it already implemened?

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Demo

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ILMT 9.0 MSI – IBM Software Catalog – Use case 1

Why my component IBM HTTP Server WAS Hypervisor in version 8.5 was not discovered?

Answer: If you have RHEL, double check if found signature is present on the endpoint.
If you have SLES, there is no signature in the catalog to discover it.

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ILMT 9.0 MSI – IBM Software Catalog – Use case 2

I want to make sure that ILMT will be able to discover WebSphere Application Server Liberty Core 8.5

Answer: ILMT can discover this software

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ILMT 9.0 MSI – IBM Software Catalog – Use case 3

I'm waiting for adding the hierarchy of IBM WebSphere Portal Extend 8.5 to the catalog. Is it already done?

Answer: Yes. Added on 4th April.

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ILMT 9.0 MSI – IBM Software Catalog – Use case 4

I'm waiting for a fix on IBM Tivoli Configuration Manager's signatures for Unixes. Is it already implemened?

Answer: Yes. Modified on 7th May.

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Reviewing software inventory

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ILMT 9.0 MSI – Reviewing… – Automated bundling

- Automated bundling is internal ILMT process
- The purpose of the process is to assign component instances to software products in an automatic manner
- After a software scan, newly discovered component instances are automatically associated using the process
- Automatic bundling is based on four product-component linking rules
  - part numbers
  - partition collocation
  - infrastructure collocation
  - stand-alone product discovery
- The results of automated bundling are shown on the IBM Software Classification panel

Table 1. Bundling rules

Rule	Description
Part numbers	This rule uses the part numbers list to identify possible target products. Part numbers are the records of the software offerings that were purchased from IBM®. They can be downloaded from Passport Advantage® or obtained from your customer records.
Partition collocation	This rule discovers the component instances that are on the same partition, and are related to a product in the software catalog. For example: DB2® that is installed on the same computer as License Metric Tool is bundled with License Metric Tool.
Infrastructure collocation	This rule discovers the component instances that are installed in the same infrastructure, and are related to a product in the software catalog. The search does not include the agent on which the product is installed.
Stand-alone product discovery	This rule identifies the component instances of particular products, and indicates the product that contains the lowest number of components.

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ILMT 9.0 MSI – Reviewing software inventory – Manual task

- After new components are discovered by software scans, the server associates those components with products based on their relationships in the software catalog
- If the initial association does not reflect your actual environment, that is, the discovered components do not in fact belong to the automatically assigned products, you must change the assignment
- You can reassign, confirm, and share software component instances
- You can also include them in and exclude them from pricing calculation
- Work with software instances to till all software associations match your entitlements
- Work with software instances constantly to ensure new software associations match your entitlements

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ILMT 9.0 MSI – Reviewing software inventory – Part numbers

- Part numbers represent purchased software products
- They can be used to increase the accuracy of automated bundling by narrowing down the number of possible products to which a discovered component can be assigned
- The extent to which part numbers can improve automated bundling is limited by the following factors:
  - Part numbers influence the assignment of only those components whose assignment is not confirmed yet
  - Part numbers that were purchased before 2010 are not contained in the software catalog
  - Part numbers that represent products that have limited availability are not contained in the software catalog
  - Part numbers that represent products that are available only outside of the United States are not included in the catalog

8	Sales ord	Part number	Part description
1622	04-Jan-14	E02HKLL	IBM WebSphere Application Server - Express Processor Value Unit (PVU) Annual SW Subscription & Support Renewal 12 Months
1623	04-Jan-14	E02HKLL	IBM WebSphere Application Server - Express Processor Value Unit (PVU) Annual SW Subscription & Support Renewal 12 Months
1624	04-Jan-14	E025SLL	IBM WebSphere Application Server Network Deployment Processor Value Unit (PVU) Annual SW Subscription & Support Renewal 12 Months
1625	04-Jan-14	E025QLL	IBM WebSphere Application Server Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
1626	04-Jan-14	E00HHLL	IBM WebSphere Application Server for Developers Authorized User Annual SW Subscription & Support Renewal
1627	04-Jan-14	E0234LL	IBM WebSphere Business Compass Advanced Edition Processor Value Unit (PVU) Annual SW Subscription & Support Renewal 12 Months
1628	04-Jan-14	E01UDLL	IBM WebSphere Integration Developer Authorized User Annual SW Subscription & Support Renewal
1629	04-Jan-14	E04VPLL	IBM WebSphere MQ File Transfer Edition Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
1630	04-Jan-14	E0256LL	IBM WebSphere MQ Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
1631	04-Jan-14	E0253LL	IBM WebSphere MQ Workflow Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
1632	04-Jan-14	E01TPLL	IBM WebSphere Partner Gateway Advanced Edition Connection Annual SW Subscription & Support Renewal 12 Months
1633	04-Jan-14	E0288LL	IBM WebSphere Partner Gateway Advanced Edition Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
1634	04-Jan-14	E023RLL	IBM WebSphere Portal Extend Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
1635	04-Jan-14	E03P8LL	IBM WebSphere Service Registry and Repository for zEnterprise BladeCenter Extension and Linux on System z Processor Value Unit (PVU) Annual

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ILMT 9.0 MSI – Reviewing… – Components found

- Having software component instances disovered, the first check should be to make sure those instances were correctly found
- Such review allows identify the following mistakes
  - Component was not uninstalled after trial period has finished
  - Company does not use particular software anymore, however it was not uninstall from all computers
  - Uninstallation of software failed or was incorrectly performed (e.g. just manual removal of application's root directory) and some important leftovers remained
  - Upgrade of software did not refresh the component's signature correctly
  - Application binaries were discovered even though the software was not installed
- The check consist of three steps
  - Opening Software Installations report
  - Moving to details of discovered components
  - Checking the path where every component was discovered and why it was discovered (software signature)

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Demo

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ILMT 9.0 MSI – Reviewing… – Components found (cont.)

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ILMT 9.0 MSI – Reviewing… – Components found (cont.)

If you find that particular component was discovered incorrectly, take appropriate action

- If unnecessary component remains in the environment despite following the uninstallation or upgrade procedure provided by IBM:
  - Open PMR
  - Follow the instructions provided by ILMT support team
- If unnecessary component remains due to incorrectly applied uninstallation or upgrade procedure, or any other reason:
  - Immediately uninstall/remove the software
  - Contact your IBM representative

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IBM Software Classification panel

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Demo

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ILMT 9.0 MSI – IBM Software Classification panel

IBM License Metric Tool | Home | Reports | Management | ilmtadmin

Management: IBM Software Classification

Discovery start: 4/12/2014 Discovery end: 7/11/2014 Update

Displayed products: 14

All Classifications | Actions | Product/Release/Component | Filter

Product/Release/Component	Host Name	Confirmed	Bundling Rules Used	Current Server ID	Exclusion Status	Operating	Part Numbers	Installation Path
IBM WebSphere Application Server		✓					D55W8LL	
IBM WebSphere Application Server - Express		✓					D582CLL	
IBM WebSphere Application Server - Express 8.5 (3)		✓						
WebSphere Application Server - Express 8.5	NC106207	✓	User-confirmed. Based on: the part numbers, the relation in the software catalog, the stand-alone product discovery.	IBM 8233 06A84BP	Included	AIX 6.1		/usr/IBM/WebSphere/Liberty/lib/versions/tags/
WebSphere Application Server - Express 8.5	NC106178	✓	User-confirmed. Based on: the part numbers, the relation in the software catalog, the stand-alone product discovery.	IBM 8233 06A857P	Included	AIX 6.1		/usr/IBM/WebSphere/AppServer/properties/version/
WebSphere Application Server - Express 8.5	NC106178	✓	User-confirmed. Based on: the part numbers, the relation in the software catalog, the stand-alone product discovery.	IBM 8233 06A857P	Included	AIX 6.1		/usr/IBM/WebSphere/Liberty/lib/versions/tags/
IBM WebSphere Application Server Liberty Core		✓					D0ZDZLL	
IBM WebSphere Application Server Liberty Core 8.5 (1)		✓						
WebSphere Application Server Liberty Core 8.5	NC106166	✓	User-confirmed. Based on: the part numbers, the relation in the software catalog, the stand-alone product discovery.	IBM 8233 06A84DP	Included	AIX 7.1		/usr/IBM/WebSphere/Liberty/lib/versions/tags/
IBM WebSphere Application Server Network Deployment		✓					D55WJLL	
IBM WebSphere Application Server for Developers		✓					D51JXLL	

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Reports - overview

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Demo

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Thank you

Managing software inventory
IBM License Metric Tool 9.0
Questions & Answers

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