

IBM Endpoint Manager for Software Use Analysis
Version 9.1 (includes update 9.0.1, 9.0.1.1 and 9.0.1.2)

Tutorials Guide



IBM Endpoint Manager for Software Use Analysis
Version 9.1 (includes update 9.0.1, 9.0.1.1 and 9.0.1.2)

Tutorials Guide



Tutorials Guide

This edition applies to IBM Endpoint Manager for Software Use Analysis 9.0.1.2 (product number 5725-F57) and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright IBM Corporation 2002, 2014.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Tutorials



The tutorials are available to help you understand how to use the product. Tutorials consist of modules that focus on helping you accomplish broad goals, such as managing software catalog. Modules consist of tasks that tell you, step-by-step, how to configure a specific setting.

Tutorial: Simplified catalog management

This tutorial teaches you how to manage your custom catalog in Software Use Analysis. You will learn how to download and update the software catalog, create and edit custom publishers, products, and simple software signatures that are used to detect the software in your infrastructure.

Learning objectives

In this tutorial, you learn to do the following tasks:

- Download the latest software catalog from IBM® Endpoint Manager server
- Update the software catalog that you downloaded
- Import software scan data from IBM Endpoint Manager server
- Create a catalog entry
- Edit a catalog entry
- Delete a catalog entry

Time required

60 minutes

Lessons in this tutorial

The tutorial contains the following lessons:

1. Lesson 1: Downloading a new software catalog.
2. Lesson 2: Updating software catalog.
3. Lesson 3: Importing software scan data.
4. "Lesson 4: Creating software signatures" on page 3.

Lesson 1: Downloading a new IBM software catalog

In this lesson, you learn how to download the latest software catalog through the IBM Endpoint Manager server.

The **Software Catalog Update** task downloads a ZIP file that contains a software catalog in an XML format and two CSV files with charge unit data. Charge unit data consists of information about charge unit definitions, their relations with the products, and additional parameters and part numbers that are used for software licensing purposes.

1. Start the IBM Endpoint Manager console.

2. On the navigation bar, click **Sites > External Sites > IBM Endpoint Manager for Software Use Analysis v9 > Fixlets and Tasks**.
3. In the upper-right pane, click **Software Catalog Update**, and then click **Take Action**.
4. Choose which files you want to download:
 - The software catalog, charge unit data, and the part numbers file compressed into a single file
 - Only the software catalog
 - Charge unit data and part numbers compressed into a single file
5. Click the name of the computer on which you want to download the software catalog, and click **OK**.

Results

The software catalog is downloaded to the Software Use Analysis installation directory, by default: `/opt/IBM/SUA/sua_catalog`.

Lesson checkpoint

You learned how to download the software catalog from the IBM Endpoint Manager server.

Now, you must update the catalog in Software Use Analysis. Proceed to the next lesson to learn how to do it.

Lesson 2: Updating the software catalog

In this lesson, you learn how to update the software catalog and charge unit data by uploading it to Software Use Analysis. You should update the software catalog on a regular basis and check for updates every month to keep your software inventory up-to-date.



You must have the Manage Uploads permission to perform this task.

1. Download the catalog from the IBM Endpoint Manager console.
2. Log in to Software Use Analysis.
3. In the navigation bar, click **Management > Catalog Upload**.
4. Click **Browse** and select the appropriate compressed file.
 - If you downloaded a compressed file that contains the software catalog, charge unit data, and the part numbers file, search for the `IBMSoftwareCatalog_canonical_2.0_form_date.zip` file.
 - If you downloaded a compressed file that contains only the software catalog in the XML format, search for the `IBMSoftwareCatalog_canonical_2.0_form_date.zip` file.
 - If you downloaded a compressed file that contains two CSV files with charge unit data and part numbers, search for the `ChargeUnits_date_dataversion_version.zip` file.

The default location of the file is `/opt/IBM/SUA/sua_catalog`.

5. To upload the catalog, click **Upload**.

Results

The software catalog file is listed in the table. The status is **Pending** until you import the scan data to process and update new data.

Lesson checkpoint

You learned how to update the software catalog in Software Use Analysis.

Before you can use it, you must import software scan data to process the changes and to make sure that all data and settings are up to date. Proceed to the next lesson to learn how to import software scan data.

Lesson 3: Importing software scan data

In this lesson, you learn how to import software scan data. The inventory results are stored on the Endpoint Manager server. To import software scan data, the software catalog and other settings that changed since the last update, you must extract the data from Endpoint Manager server and load it into the Software Use Analysis.



You must have the Manage Imports permission to perform this task.

1. Log in to Software Use Analysis.
2. In the navigation bar, click **Management > Data Imports**.
3. To import software scan data, the software catalog and other settings that changed since the last update, click **Import Now**.
4. To schedule regular imports, select the **Enabled** check box, specify the number of daily imports and their hours, and click **Save**.

Import Settings

Enabled

Imports per day *(times specified in UTC +01:00)*

09:00AM

01:30PM

05:00PM

Lesson checkpoint

You learned how to import software scan data. Remember to schedule a regular import so that all your data is always up to date.

You already know how to download the software catalog, update it in Software Use Analysis, and import software scan data. Now, you can learn how to customize your catalog by creating new catalog entries, editing the existing ones, or deleting those that you no longer need. Proceed to the next lesson to learn how to create catalog entries.

Lesson 4: Creating software signatures

In this lesson, you learn how to create signatures for identifying products that you expect to discover but are not reported or are missing from the software catalog.

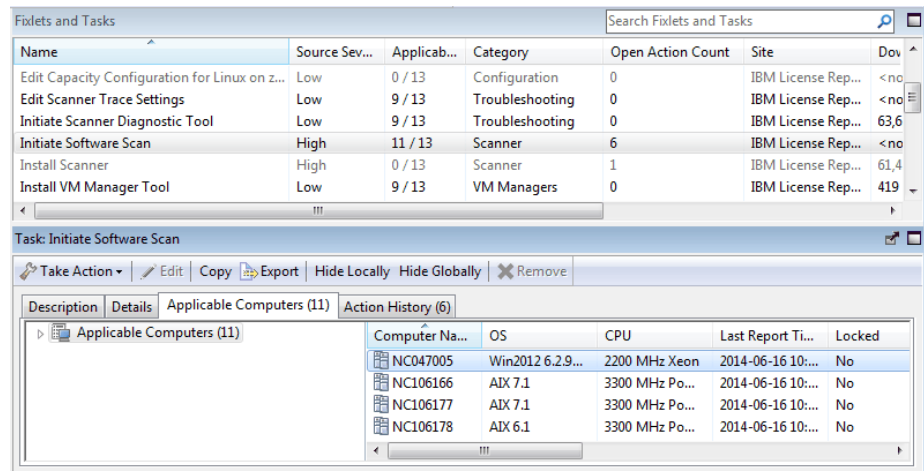
To create a software signature, identify a file or package that is specific for the product and can be used for discovery purposes. If you create a file-based signature, it is used for both discovery and usage monitoring unlike a

package-based signature that is used for discovery only. To avoid false-positive discovery, it is best to create a signature that is based on both a file and package data.

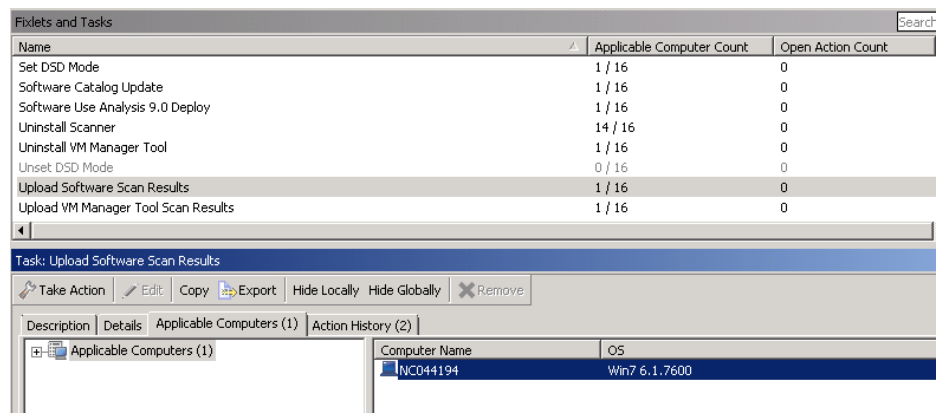
1. To avoid unnecessary work, verify that the product is not in the software catalog. In the catalog search, type Live Project Premium Viewer, and click **Search**.

Tip: If searching for the full product name does not return any results, try using different key words. For example, search for Live Project Viewer or Live Project.

2. Optional: If Live Project Premium Viewer was installed recently, initiate the software scan to ensure that the data from the computers on which the product is installed is up-to-date and accurate.
 - a. Log in to the Software Use Analysis console.
 - b. In the navigation tree, click **Sites > External Sites > IBM Endpoint Manager for Software Use Analysis > Fixlets and Tasks**.
 - c. In the top pane, click **Initiate Software Scan**, and then click **Take Action**.
 - d. Open the **Applicable Computers** pane and select a computer or computers on which Live Project Premium Viewer is installed. Then, click **Take Action**.



- e. When the software scan finishes, upload its results. Click **Upload Software Scan Results**, and then click **Take Action**.
- f. Open the **Applicable Computers** pane and select a computer or computers on which Live Project Premium Viewer is installed. Then, click **Take Action**.



- g. In Software Use Analysis, run an import to retrieve the latest scan data from Endpoint Manager. In the top navigation bar, click **Management > Data Imports**, and then click **Import Now**. Wait for the import to finish.
3. To find information about files that were discovered in your infrastructure, click **Reports > Scanned File Data**.
4. To narrow down the result, click **Configure View** and specify filtering parameters. For example, narrow down the results to entries in which the computer name is the name of the computer on which Live Project Premium Viewer is installed and the installation path contains the words Live or Project. Then, click **Submit**.

Filters

Specify the report filter which match **all** of the following conditions:

Computer Name equals NC044194

File Path contains Live

File Path contains Project

Submit Cancel

5. To create a signature, click the arrow sign next to the file name and then click **Create Signature**.

Computer Name	Last Seen	File Path	File Name	Size	File Version
NC044194	about 18 hours ago	C:/Program Files/KaDonk/LiveProject	LiveProject.exe	13,398,016	5.2

6. In the Create Catalog Entry pane, specify the publisher name, product name, and release number of the product. Then, click **Submit**.

Note: The file size and version are pre-filled by default. However, if they do not fulfill certain requirements, they might lead to false-positive discovery. Specify the file version if it is in sync with the version of the product or is changed with every release. Otherwise, specify only the file size.

Create Catalog Entry

Publisher Name* KaDonk Inc.

Product Name* Live Project Premium Viewer

Release* 5.2

A component will be created based on the release information. It represents a discoverable software item that is displayed on reports.

Report release when the following conditions are fulfilled. If you specify two conditions, they both must be accomplished.

The following installation package is found:

Name* Version Vendor Remove Add

The following file is found:

Name* With Size Remove

LiveProject.exe Size (in bytes) 13398016

Name* With Version Remove Add

LiveProject.exe Version 5.2

If you select both conditions, at least one installation package and one file must be detected to report the release.

Submit

You created a file-based signature that allows for discovering Live Project Premium Viewer and measuring its usage.

7. Optional: To increase the accuracy of the signature and avoid false-positive discovery, you can specify a package that must also be present on the computer for the product to be discovered.
 - a. To view package data, click **Reports > Package Data**.
 - b. To narrow down the result, click **Configure View** and specify filtering parameters. For example, narrow down the results to entries for which the vendor contains the word KaDonk and the package name contains the word Live. Then, click **Submit**.

Filters

Specify the report filter which match **all** of the following conditions:

Vendor	contains	KaDonk	
Name	contains	Live	

- c. Write down the information about the package name, version, and vendor.

Computer Name	Last Seen	Name	Version	Vendor	Description	Type
NC044194	about 18 hours ago	LiveProject	5.2.23	KaDonk	89CE51C3-B0F4-4040-97D...	Windows

- d. To add this information to the signature that you created in step 6, click **Management > Catalog Customizations**, and search for the signature.
 - e. In the Edit Signature pane, select **The following installation package is found** and provide the package name, version and vendor. Then, click **Save**.

Tip: In the release field, use a wildcard (*) to cover the whole release, including fix packs and mod-releases.

Edit Signature

Report release when the following conditions are fulfilled. If you specify two conditions, they both must be accomplished.

The following installation package is found:

Name*	Version	Vendor	<input type="button" value="Remove"/>	<input type="button" value="Add"/>
LiveProject	5.2*	KaDonk		

The following file is found:

Name*	With	Size	<input type="button" value="Remove"/>	
LiveProject.exe	Size (in bytes)	13398016		
Name*	With	Version	<input type="button" value="Remove"/>	<input type="button" value="Add"/>
LiveProject.exe	Version	5.2		

8. Wait for the scheduled import to refresh the data. When the import finishes, verify whether Live Project Premium Viewer is discovered.
 - a. To view information about the installed software, click **Reports > Software Installations**.
 - b. To narrow down the results, click **Configure View** and specify filtering parameters. For example, narrow down the results to entries in which the software name contains the words Live Project. Then, click **Submit**.

Filters

Specify the report filter which match **all** of the following conditions:

Name contains Live Project

Submit Cancel

Information about the discovered instances and usage data is displayed.

Computer Name	Last Seen	Publisher Name	Name	Version	Total Runs	Last Used	Average Runs per Day	Details
NG044194	22 minutes ago	KaDonk Inc.	Live Project Premium Vi...	5.2*	1	about 19 hours ago	1.000	DETAILS >

Lesson checkpoint

You learned how to create a signature that discovers software when a specific file and package are present on the computer.

Tutorial: Bulk software classification using external tools

This tutorial teaches you how to rebundle products using the REST API and a cURL command line tool.

Learning objectives

In this tutorial you learn to do the following tasks:

- Reassign software instances.
- Exclude software instances.

Time required

120 minutes. If you explore other concepts that are related to this tutorial, it might take longer to complete.

The order of lessons

This tutorial contains two lessons. Complete them in order.

Lessons in this tutorial

1. Lesson 1: Reassigning large quantities of software instances.
2. Lesson 2: Excluding software instances from usage calculations.

Lesson 1: Reassigning large quantities of software instances

This lesson shows you how to reassign large quantities of software instances with the REST API and a cURL command line tool. You can use the information in this lesson to implement an automatic external tool for large scale rebundling.

You must have root operating system privileges.

After software scan data is imported from the IBM Endpoint server, software instances are automatically associated with products based on automatic bundling rules. If some instances are assigned to the wrong product, they must be reassigned correctly.

In this lesson, some instances of Tivoli® Storage FlashCopy® Manager are assigned to the wrong product. The Tivoli Storage FlashCopy Manager product is only installed on computers with a host name that begins with nc04, and only on Linux computers. You reassign all other instances of Tivoli Storage FlashCopy Manager to a release of IBM Tivoli Storage Manager.

Important:

- Some of the commands in this lesson are long, and for the purposes of presentation, some line breaks were introduced. Treat each line break as a space.
- You must add token ID at the end of each cURL command. To obtain the token,
 1. In the Software Use Analysis user interface, click **Management > Users**.
 2. Click the user name.
 3. In the lower part of the page, click **Show token**.

1. Log on to your computer and start the command line interface.
2. Retrieve a list of all products that are discovered in your environment. Run the following command:

```
curl -v -X GET http://server_url:server_port/api/sam/swinventory/products?token=token_ID
```

3. Review the list to obtain the product ID for IBM Tivoli Storage FlashCopy Manager.

```
{
  "id": "16790",
  "level": "product",
  "isConfirmed": "false",
  "productReleaseComponent": "IBM Tivoli Storage FlashCopy Manager",
  "children": "true",
  "nmbOfAllRows": "44",
  "confidence": "11",
  "type": "root"
}
```

4. Retrieve all releases for the product. Use the product ID you obtained in the previous step. Run the following command:

```
curl -v -X GET http://server_url:server_port/api/sam/swinventory/product/16790/releases?token=token_ID
```

5. Review the list to obtain the release IDs for IBM Tivoli Storage FlashCopy Manager.

```
{
  "label": "name",
  "identifier": "id",
  "numRows": "1",
  "items": [{
    "id": "985",
    "level": "release",
    "isConfirmed": "false",
    "numberOfAllInstances": "5",
    "productReleaseComponent": "IBM Tivoli Storage FlashCopy Manager 3.1",
    "children": "true",
    "nmbOfAllRows": "1",
    "confidence": "11"
  }]
}
```

6. Retrieve a list of all instances for the releases. Use the release IDs you obtained in the previous step. Run the following command:

```
curl -v -X GET http://server_url:server_port/api/sam/swinventory/release/985/instances?token=token_ID
```

7. Review the list to obtain the product inventory IDs for instances of IBM Tivoli Storage FlashCopy Manager that meet your criteria.

Instances that are not installed on a computer with a host name that begins with nc04, or that are not installed on a Linux computer.

Note: You might need to filter the list by using an external tool.

```
{
  "isCharged": "true",
  "operatingSystem": "AIX 6.1",
  "isConfirmed": "false",
  "currentServerId": "IBM 8233 06A851P",
  "updateTime": "1381322771321",
  "children": "false",
  "hostname": "NC107073",
  "confidence": "11",
  "productInventoryId": "134",
  "id": "134",
  "level": "instance",
  "bundleRules": "the relation in the software catalog, the stand-alone product discovery",
  "isAgentDeleted": "false",
  "processorType": "IBM(R) POWER7 (750, 755, 775 servers) Multi-core All Existing",
  "productReleaseComponent": "IBM Tivoli Storage Manager Client 6.3",
  "pvuPerCore": "100",
  "installationPaths": "/IBM Software/TSM",
  "nmbOfAllRows": "5",
  "isSimple": "false"
},
{
  "isCharged": "true",
  "operatingSystem": "Win2008R2 6.1.7601",
  "isConfirmed": "false",
  "currentServerId": "TLM_VM_42362841-6b4e-ea26-9755-07b28dc0fd41",
  "updateTime": "1381322771321",
  "children": "false",
  "hostname": "VMW009128109094",
  "confidence": "11",
  "productInventoryId": "137",
  "id": "137",
  "level": "instance",
  "bundleRules": "the relation in the software catalog, the stand-alone product discovery",
  "isAgentDeleted": "false",
  "processorType": "Other Other One core All Existing",
  "productReleaseComponent": "IBM Tivoli Storage Manager Client 6.3",
  "pvuPerCore": "100",
  "installationPaths": "C:\\IBM Software\\TSM",
  "nmbOfAllRows": "5",
  "isSimple": "false"
}
```

- Retrieve a list of the releases where instances can be reassigned to. Use an instance ID you obtained in the previous step. Run the following command:

```
curl -v -X GET http://server_url:server_port/api/sam/swinventory/targetBundlesOfInstances?productInventoryId=134?token=token_ID
```

- Review the list to obtain the IBM Tivoli Storage Manager release ID you want to reassign the instances to.

```
{
  "id": "33424",
  "appliedRules":
  "the infrastructure co-location, the relation in the software catalog",
  "releaseId": "33424",
  "isSelected": "false",
  "branchType": "0",
  "confidenceLevel": 3,
```

```

    "isShared": "false",
    "productName": "IBM Tivoli Storage Manager 6.3",
    "productInventoryId": "134"},
  }

```

10. Reassign the releases by running the following command:

```

curl -v -X POST http://server_url:server_port/api/sam/swinventory/reassign -d
"productInventoryId=inventory_IDs&productId=release_ID&updateTime=timestamp"?token=token_ID

```

Where:

- inventory_IDs Are the instances to reassign
- release_ID Is the product release to reassign to
- updateTime Is the update time that is expressed in milliseconds. The timestamp must be equal to or greater than the timestamps retrieved as a property of the instances to reassign, in step.6 on page 8

For example:

```

curl -v -X POST http://server_url:server_port/api/sam/swinventory/reassign -d
"productInventoryId=134,137&productId=33424&updateTime=9949237658579"

```

An HTTP response 204 is received. The selected instances are reassigned to the new release.

Lesson 2: Excluding software instances from usage calculations

This lesson shows you how to exclude products from license usage calculations with the REST API and a cURL command line tool. You can use the information in this lesson to implement an automatic external tool for large scale rebundling.

You must have root operating system privileges.

In this lesson, a customer uses resource value unit (RVU) subcapacity licensing for some Endpoint Manager endpoints. All computers are subscribed to the IBM Endpoint Manager for Software Use Analysis site in the Endpoint Manager console, and software scans of the infrastructure are completed. The subscribed computers are 80% desktop computers and 20% servers. Before an RVU report is generated, all desktop computers must be excluded from license usage calculations.

Important: Some of the commands in this lesson are long, and for the purposes of presentation, some line breaks were introduced. Treat each line break as a space.

1. Start the command line interface.
2. To retrieve a list of all products that are discovered in your environment, run the following command:

```

curl -v -X GET http://server_url:server_port/api/sam/swinventory/products

```

3. Review the list to obtain the product IDs for IBM Endpoint Manager applications.

There might be many IBM Endpoint Manager applications. Search for all products that begin with "IBM Endpoint Manager for...".

```

{
  "id": "21555",
  "level": "product",
  "isConfirmed": "false",
  "productReleaseComponent": "IBM Tivoli Endpoint Manager for Lifecycle Management",
  "children": "true",
  "nmbOfAllRows": "45",
  "confidence": "23",
  "type": "root"}

```

- Retrieve lists of all releases for each of the IBM Endpoint Manager products, and retrieve lists of all instances. The following commands are used for retrieving lists of releases and lists of instances.

```
curl -v -X GET http://server_url:server_port/api/sam/swinventory/product/product_ID/releases
```

```
curl -v -X GET http://server_url:server_port/api/sam/swinventory/release/release_ID/instances
```

- Filter the lists of instances in an external tool, to obtain a list of all IBM Endpoint Manager product instances that are installed on desktop computers. You can use an external tool such as a spreadsheet to filter the lists. You can filter on a number of criteria. A desktop can be defined as a computer that does not contain the word server in the operating system name. The license type is not Windows server, and the computer model is not VMware.
- Using the inventory IDs from your filtered list, exclude all instances of IBM Endpoint Manager products that are installed on desktop computers. To exclude instances, run the following command:

```
curl -v -X POST http://server_url:server_port/api/sam/swinventory/exclude -d "productInventoryId=inventory_IDs&reason=no_licensing&updateTime=timestamp"
```

Where:

- inventory_IDs* are the instances to reassign
- timestamp* is the update time that is expressed in milliseconds. The timestamp must be equal to or greater than the timestamps retrieved as a property of the instances to reassign, in step.4

All instances can be entered separated by commas, for example:

```
curl -v -X POST http://server_url:server_port/api/sam/swinventory/exclude -d "productInventoryId=134,137&reason=no_licensing&updateTime=9949237658579"
```

An HTTP response 204 is received. The selected instances are excluded.

- Open the All IBM Metrics report, and click **Recalculate**, to update the RVU values for IBM Endpoint Manager.

Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785 U.S.A.

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan, Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
2Z4A/101
11400 Burnet Road
Austin, TX 79758 U.S.A

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this information and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement, or any equivalent agreement between us.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

Trademarks

IBM, the IBM logo, and [ibm.com](http://www.ibm.com)[®] are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Privacy policy considerations

IBM Software products, including software as a service solutions, (“Software Offerings”) may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering’s use of cookies is set forth below.

This Software Offering does not use cookies or other technologies to collect personally identifiable information.

If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, See IBM’s Privacy Policy at <http://www.ibm.com/privacy> and IBM’s Online Privacy Statement at <http://www.ibm.com/privacy/details> the section entitled “Cookies, Web Beacons and Other Technologies” and the “IBM Software Products and Software-as-a-Service Privacy Statement” at <http://www.ibm.com/software/info/product-privacy>.



Printed in USA