IBM

IBM Tivoli License Manager

Licensing Scenarios

Version 2.1

IBM

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Version 2.1

Second Edition (April 2005)

This edition applies to version 2.1 of IBM Tivoli License Manager (program number 5724-D33) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Overview

This document is designed to help you create license definitions within IBM[®] Tivoli[®] License Manager to monitor software programs for which you have acquired a sub-capacity entitlement. The sub-capacity entitlement that you have acquired may cover a single program (within Tivoli License Manager, this is referred to a *product*) or a group of programs (within Tivoli License Manager, this is referred to as a *bundle*).

The document includes the following topics:

- "Monitoring software use."
- "Licenses" on page 3.
- "License management profiles" on page 3.
- Chapter 2, "Licensing a sub-capacity product," on page 5.
- Chapter 3, "Licensing sub-capacity bundles," on page 15.

Monitoring software use

Monitoring of software use by Tivoli License Manager depends on the following:

- The deployment of the Tivoli License Manager agent on the computers and partitions where software use is to be monitored.
- The inclusion of the software program whose use is to be monitored as a entry in the Tivoli License Manager catalog of software products.
- The creation of a license definition that determines the way that the level of use will be determined, for example by using the sub-capacity counting rules.

Figure 1 on page 2 shows the components of Tivoli License Manager deployed in a customer's environment to monitor the computers Server-A and Server-B, both of which have two partitions. An agent is deployed to monitor the use of software products in each partition.



Figure 1. Deployment of Tivoli License Manager

The catalog of software products is a knowledge base, maintained by IBM, that enables the agent to determine which software products are present and in use on a monitored computer. Entries in the catalog are organized into a hierarchical structure of products, product versions, and product releases. The product releases are physical programs that may be running in your environment. The other levels are logical levels at which information can be aggregated in reports and at which license definitions can be created.

License definitions are needed for the following purposes:

• To enable collection of information about the use of products and bundles for which sub-capacity entitlements have been acquired.

Each Tivoli License Manager license has a license type. Specifying the Sub-Capacity license type identifies the assigned products as licensed under a sub-capacity licensing model. This enables Tivoli License Manager to identify and collect use information about these products, using sub-capacity counting rules, and include it in a report to IBM.

• To enable differentiation between the different terms under which a product may have been licensed.

It is important that you are able to differentiate between the use of a product such as DB2[®] UDB, for which you have acquired a sub-capacity entitlement and the use of the same product licensed under a different agreement, for example, as a limited-use supporting product for another product. If you acquire a sub-capacity entitlement for a product that you are also using under a different

agreement, you must ensure that the sub-capacity license you define using Tivoli License Manager is used only by the specific installation of the product to which the sub-capacity rules apply.

This is achieved by restricting access to each license to the agent that monitors the computer or partition on which the product or bundle is installed. So, if a limited-use instance of a product is installed on HostA-1 and the same product is installed as part of a sub-capacity bundle on HostA-2, they are monitored by different agents and would each have a license restricted to the individual agent.

Differentiation is not possible if both installations of the product are located in the same partition (or on the same computer, if it is not partitioned) and monitored by the same agent. Use information for both installations will be recorded against the license distributed to that agent. For this reason, you must not have multiple installations of the same product on a computer or partition that is monitored by a single Tivoli License Manager agent.

• To provide license administrators with information about the use of licensed products.

Licenses

A Tivoli License Manager license comprises the following parts:

General and business information:

This includes license type, for example sub-capacity, and the licensed quantity.

Products covered by the license

The products covered by the license could include, for example, multiple versions or releases of a single product on one or more of the supported platforms, a product suite, or a set of products licensed together as a bundle.

License distributions

A license distribution determines the computers or partitions to which the license is applicable. The license can be open to all computers or could be limited to specified computers or partitions.

Careful definition of the license distribution enables you to have different license conditions for different installations of the same product. This is particularly important if you are using a product licensed under sub-capacity rules in the same environment as the same product that is licensed under a different agreement. In such a case, failure to limit the sub-capacity license to the node or partition where the sub-capacity product is running could result in use information originating from the non-sub-capacity installation of the product being included in the IBM report.

License management profiles

The access control functionality of the Tivoli License Manager administration server Web UI includes a set of profiles that must be assigned to authorized users to define the Web UI tasks that each user has access to. The following profiles are relevant to the tasks of creating and maintaining licenses:

- Procurement manager: Users with this profile can create the general license information.
- License administrator: Users with this profile can assign products to a license and define the license distribution.

• Procurement and licensing manager: Users with this profile can perform all licensing tasks.

See *IBM Tivoli License Manager: Administration* for information about creating and using profiles.

Licensing scenarios

The remainder of this document comprises scenarios that describe the creation of a sub-capacity license for a product and a bundle:

- Chapter 2, "Licensing a sub-capacity product," on page 5. This scenario explains the steps to be taken when you have acquired a sub-capacity entitlement for a single product.
- Chapter 3, "Licensing sub-capacity bundles," on page 15. This scenario explains the steps to be taken when you have acquired a sub-capacity entitlement for a product bundle.

Chapter 2. Licensing a sub-capacity product

This scenario describes the steps required to create a sub-capacity license definition for a product, for which you have acquired a sub-capacity entitlement.

The procurement manager has acquired 2 sub-capacity license entitlements for WebSphere[®] MQ, Version 5.3. A Tivoli License Manager license definition must be created that enables Tivoli License Manager to collect information about the use of the installed product in terms of the capacity used and include it in the IBM use report. It is important that the use information collected by Tivoli License Manager and associated with this license definition should include only instances of the product that have been licensed under a sub-capacity licensing model.

The system resources manager installs the product on the **Server A** computer in partition **HostA-1**.



Figure 2. WebSphere MQ installed in the customer's environment

The procurement manager and license administrator must now use the administration server Web UI to create the license definition that will enable Tivoli License Manager to monitor and report the use of the installed product.

Other instances of WebSphere MQ, Version 5.3 are currently installed in the environment. Use of these two instances of the same product must be tracked separately, because they are licensed under different conditions. The scenario

demonstrates how to define the license in such a way that use of the other instances is not associated with this license. This task is divided into the following sections:

- "Creating the license." This task is performed by the procurement manager or the procurement and licensing manager.
- "Assigning products to the license" on page 8. This task is performed by the licensing administrator or the procurement and licensing manager.
- "Distributing the license" on page 10. This task is performed by the licensing administrator or the procurement and licensing manager.

Creating the license

To create the license, do the following:

1. In the portfolio, click Licenses in the Manage procurement task group.

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License owner	Contract number		
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2. Select Create a new license and click Next.

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3. Complete the license information.

Supply a meaningful license name (for example a mnemonic or a name that includes the part number) that will help you search for the license next time you need to access it. Select the **Use** license type, select **Sub-Capacity** from the list of use types, and supply the **Total quantity** for the license.

- **Note:** The license quantity is used by Tivoli License Manager reports other than the IBM Use Report. This quantity is not considered by IBM when processing the IBM Use report that you submit.
- 4. Click OK.

Assigning products to the license

- To assign the products to the license, do the following:
- 1. In the portfolio, click **Assign licenses**.



2. Supply the license name to search for and click Next.

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3. Select the WS MQ license and click Assign products.

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Products that ca	n be added to the license with license	name WS MQ			
Select	Product name	Vendor	Platform		Compliance level
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V	WebSphere MQ 5.3.*	IBM	Windows		None
V	WebSphere MQ (AIX) 5.3.*	IBM	UNIX		None
	WebSphere MQ (HPUX) 5.2.*	IBM	UNIX		None
~	WebSphere MQ (HPUX) 5.3.*	IBM	UNIX		None
	WebSphere MQ (Linux) 5.3.*	IBM	UNIX		None
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This dialog enables you to define the hierarchy level at which products are to be assigned to the license (entire product, product version, or product release) and to search for and select the products, versions, or releases to be assigned. In this scenario, WebSphere MQ, version 5.3 is to be assigned. The hierarchy level must be set to **Release** so that catalog entries for version 5.3 on different platforms can be selected. Setting the hierarchy level to **Product** or **Version**

would make it impossible to filter out use information for versions of the products that do not use the sub-capacity pricing model.

5. Enter the search criteria, for example, the first characters of the product name, and click **Search**. When the required products are displayed, select them and click **OK**.

The list of products you have selected is displayed for confirmation. Click **Finish** to save the assignment to the database.

Distributing the license

When the procurement manager creates a license, a default distribution is created. For sub-capacity licenses, the default distribution covers all nodes (computers). This means that the Tivoli License Manager license is not restricted to the instance of the product for which a sub-capacity license entitlement has been acquired. The distribution must be changed so that the only product use that is aggregated to the license is that of the instance installed on the Server-A computer.

Note: If you do not complete this procedure, software use data relating to a different copy of this product, installed elsewhere in the environment and licensed under different terms, might be collected and erroneously included in the IBM Use Report.

To change the distribution of the license, do the following:

1. Search for and select the license as described in "Assigning products to the license" on page 8.

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2. Click Distribute.

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3. Click Change.

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4. Click **Define targets**.

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5. Click Change targets.

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6. Select the Server-A target and click OK.

The list of linked targets is displayed. Click **OK** to confirm the selection, then when the distribution details dialog is redisplayed, click **Finish**.

The use of the WS MQ license is now limited to instances of WebSphere MQ, Version 5.3 that are installed on the Server-A computer. This distribution covers both partitions of the Server-A computer.

Licensing a sub-capacity product

Note: If another installation of WebSphere MQ 5.3 was later installed in the other partition of Server-A, it would be tracked on this license. If the entitlement you acquired for the new installation was not sub-capacity, you would have to change the license distribution to limit distribution by agent. See "Distributing the license" on page 21.

Licensing a sub-capacity product

Chapter 3. Licensing sub-capacity bundles

This scenario describes the steps required to create a sub-capacity license definition to cover the products included in a product bundle.

Note: Bundles often includes products whose use does not contribute to the overall use of the bundle. Such products must not be assigned to the license. Refer to the **IBM Product Information** spreadsheet for the list of products to be assigned to the licensefor each bundle.

The procurement manager has acquired 2 sub-capacity license entitlements for DB2 UDB Data Warehouse, Version 8.2, which is a product bundle that includes a license for DB2 Universal Database[™] Enterprise Server Edition, Version 8.2. A Tivoli License Manager license must be created that enables Tivoli License Manager to collect information about the use of the products that are included in the bundle, and include it in the IBM Use Report. It is important that the use information collected by Tivoli License Manager and associated with this license should include only instances of the products that have been licensed as part of the bundle.

The system resources manager installs the bundle on the **Server-B** computer in the **HostB-2** partition.



Figure 3. The DB2 UDB Data Warehouse bundle installed in the customer's environment

The procurement manager and license administrator must now use the administration server Web UI to create the license definition that will enable Tivoli License Manager to monitor and report the use of the products included in the bundle. DB2 UDB Enterprise Server Edition, Version 8.2, is one of the products included in the bundle. Figure 3 on page 15 shows that another instance of this product is currently installed in the environment. Use of these two instances of the same product must be tracked separately, because they are licensed under different conditions. The scenario demonstrates how to define the license in such a way that use of the other instances is not associated with this license. This task is divided into the following sections:

- "Creating the license." This task is performed by the procurement manager or the procurement and licensing manager.
- "Assigning products to the license" on page 17. This task is performed by the licensing administrator or the procurement and licensing manager.
- "Distributing the license" on page 21. This task is performed by the licensing administrator or the procurement and licensing manager.

Creating the license

To create the license, do the following:

1. In the portfolio, click Licenses in the Manage procurement task group.

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2. Select Create a new license and click Next.

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		Total cost Currency	Purchase type Unknown 💌	
		* Start date 4 / 4 / 2005	* Expiration date 4 / 4 / 2015	
	OK Apply Reset Close			-
4				•

3. Complete the license information.

Supply a meaningful license name (for example a mnemonic or a name that includes the part number) that will help you search for the license next time you need to access it. Select the **Use** license type , select **Sub-Capacity** from the list of use types, and supply the **Total quantity** for the license.

- **Note:** The license quantity is used by Tivoli License Manager reports other than the IBM Use Report. This quantity is not considered by IBM when processing the IBM Use report that you submit.
- 4. Click OK.

Assigning products to the license

See the **IBM Product Information** spreadsheet for information about which bundled products should be assigned to the Tivoli License Manager license.

To assign the products to the license, do the following:

1. In the portfolio, click Assign licenses.

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Licenses not yet assigned to products		
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2. Supply the license name to search for and click Next.

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3. Select the DB2 DW license and click Assign products.

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4. Click Add IBM products.

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O Version	IBM		JVM		
Release	Lotus	-	UNIX I		
Products that c	can be added to the license with license n	ame DB2 DW			
ē D					
Select	Product name	Vendor	Platform		Compliance level
	DB2 UDB Data Warehouse Enterprise Edition 8.2.*	IBM	Windows	;	None
V	DB2 UDB Data Warehouse Enterprise Edition (AIX) 8.2.*	IBM	UNIX		None
V	DB2 UDB Data Warehouse Enterprise Edition (Linux) 8.2.*	IBM	UNIX		None
	DB2 UDB Data Warehouse Enterprise Edition (SUN) 8.2.*	IBM	UNIX		None
V	DB2 UDB Data Warehouse Standard Edition 8.2.*	IBM	Windows	3	None
V	DB2 UDB Data Warehouse Standard Edition (AIX) 8.2.*	IBM	UNIX		None
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This dialog enables you to define the hierarchy level at which products are to be assigned to the license (entire product, product version, or product release) and to search for and select the products, versions, or releases to be assigned. In this scenario, the products assigned to the license are DB2 UDB Data Warehouse, Version 8.2 and DB2 UDB Enterprise Server Edition, Version 8.2. The hierarchy level must be set to **Release** so that catalog entries for version 8.2 on different platforms can be selected. Setting the hierarchy level to **Product** or

Version would make it impossible to filter out use information for versions of the products that do not use the sub-capacity pricing model.

- First, search for DB2 UDB Data Warehouse. Enter the search criteria, for example, the first characters of the product name, and click Search. When the list of products is displayed, select the relevant products and click OK. The list of products assigned to the license is displayed. DB2 UDB Enterprise Server Edition must now be added.
- 6. Click Add IBM products.

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Version	Informix		OS/400 —		
Release	Lotus				
Products that c	an he added to the license with license r	ame DB2 DW			
ØD					
Select	Product name	Vendor	Platform		Compliance level
ঘ	DB2 UDB Enterprise Server Edition (Linux) 8.2.*	IBM	UNIX		None
	DB2 UDB Enterprise Server Edition (SUN) 5.2.*	IBM	UNIX		None
	DB2 UDB Enterprise Server Edition (SUN) 6.1.*	IBM	UNIX		None
	DB2 UDB Enterprise Server Edition (SUN) 7.1.*	IBM	UNIX		None
	DB2 UDB Enterprise Server Edition (SUN) 8.1.*	IBM	UNIX		None
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7. Search for DB2 UDB Enterprise Server Edition.

The list of matching products might extend to more than one page. If so navigate to find the catalog entries for DB2 UDB Enterprise Server Edition, Version 8.2, and select them.

8. When all the relevant entries have been selected, click **OK**. The list of products assigned to the license is displayed.

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	DB2 UDB Data Warehouse Enterprise Edition (AIX) 8.2.*	IBM		UNIX	None	
	DB2 UDB Data Warehouse Enterprise Edition (Linux) 8.2.*	IBM		UNIX	None	
	DB2 UDB Data Warehouse Enterprise Edition (SUN) 8.2.*	IBM		UNIX	None	
	DB2 UDB Data Warehouse Enterprise Edition 8.2.*	IBM		Windows	None	
	DB2 UDB Data Warehouse Standard Edition (AIX) 8.2.*	IBM		UNIX	None	
	DB2 UDB Data Warehouse Standard Edition (Linux) 8.2.*	ⁱ IBM		UNIX	None	
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You can navigate the list of products to check that all products are assigned.

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B2 UDB Data Warehouse Standard dition 8.2.*	IBM	Windows	None
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9. Click **Finish** to save the assignment to the database.

Distributing the license

When the procurement manager creates a license, a default distribution is created. For sub-capacity licenses, the default distribution covers all nodes (computers). This means that the Tivoli License Manager license is not restricted to the instance of the products for which a sub-capacity license has been purchased. The distribution must be changed so that the only product use that is aggregated to the license is related to the bundle installed in the HostB-2 partition of the Server-B computer.

Note: If you do not complete this procedure, software use data relating to a different copy of one or more of the products assigned to this license, installed elsewhere in the environment and licensed under different terms, might be collected and erroneously included in the IBM Use Report.

To change the distribution of the license, do the following:

1. Search for and select the license as described in "Assigning products to the license" on page 8.

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2. Click Distribute.



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4. Change the Target type to **Agent** and click **Define targets**.

Using the **Agent** target type enables you to restrict access to the license to products installed in one or more selected partitions.

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6. Select HostB-2 and click OK.

The list of linked targets is displayed. Click **OK** to confirm the selection, then when the distribution details dialog is redisplayed, click **Finish**.

The use of the DB2 DW license is now limited to instances of DB2 UDB Data Warehouse, Version 8.2 and DB2 UDB Enterprise Server Edition, Version 8.2 that are installed in the HostB-2 partition of the Server-B computer.

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