

IBM Tivoli License Compliance Manager



Readme File for Interim Fix 2.2.0.2-TIV-TLCM-IF0007

Version 2.2

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Note

Before using this information and the product it supports, read the information in "Notices" on page 7.

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This edition applies to the limited availability interim fix 2.2.0.2-TIV-TLM-IP0007 for version 2, release 2 of IBM Tivoli License Compliance Manager (program number 5724-D33).

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Readme for interim fix 2.2.0.2–TIV-TLCM–IF0007

This readme provides important information about the interim fix 2.2.0.2–TIV-TLCM–IF0007 for IBM® Tivoli® License Compliance Manager version 2.2. This readme is the most current information for the interim fix and takes precedence over all other documentation.

Please review this section thoroughly before installing or using this interim fix.

This section includes the following topics:

- “About this release”
- “Installation, migration, upgrade, and configuration information” on page 4

About this release

This section includes the following topics:

- “Automation of complex product mapping”
- “Backward compatibility” on page 4

Automation of complex product mapping

This fix introduces a feature that partially automates the mapping of complex products.

The feature introduces a rule that you can apply to ease the task of mapping components of complex products. When it is activated, the rule applies a default mapping so that any shared components are automatically mapped to the original, standalone product to which they belong. For example, a component of DB2 UDB Enterprise Server Edition (ESE) is potentially part of the DB2 UDB ESE product and of many other products that bundle DB2 UDB ESE. When the mapping rule is applied, any unmapped instances of a DB2 UDB ESE component that are detected are automatically mapped to the DB2 UDB ESE product. If you have an instance of the shared component that is part of a different product, you must change the mappings, using the Manage Complex Products tasks. Existing mappings are not affected by the activation of the feature.

The mapping rule described here is called MIN_PATH. You can apply it at organization level, by issuing the new **mapcomps** command. See “Managing mapping rules.”

Additional information about complex product mappings has been added to the Installs Snapshot report. See “Mapping information in the Installs Snapshot report” on page 2.

New tables have been added to the administration server database to support the introduction of mapping rules. See “Database changes” on page 3.

Managing mapping rules

The **mapcomps** command is added to the administration server command line interface. Using this command you can perform the following tasks:

- Activate the mapping rule.
- Deactivate the mapping rule.

- Show the current mapping rule status

Command syntax

```
mapcomps {-s|-e|-d} [-organization {-n <name>|-i<ID>}] [-r <rule_name>]
```

where:

- s shows the status of applied rules.
- e enables mapping rules.
- d disables mapping rules.
- organization specifies that the type of target for the command is an organization. The organization name is specified using the -n parameter.
- n name specifies the name of the organization.
- i ID specifies the ID of the organization.
- r rule_name is the name of the rule to be enabled, disabled, or shown. The default value is MIN_PATH.

Enabling the MIN_PATH mapping rule

To enable the MIN_PATH mapping rule for the SafeBank organization, issue the following command:

```
mapcomps -e -organization -n SafeBank -r MIN_PATH
```

Disabling the MIN_PATH mapping rule

To disable the MIN_PATH mapping rule for the SafeBank organization, issue the following command:

```
mapcomps -d -organization -n SafeBank -r MIN_PATH
```

Viewing the MIN_PATH mapping rule

To view the mapping rules that are applied to the SafeBank organization, issue the following command:

```
mapcomps -s -organization -n SafeBank
```

Mapping information in the Installs Snapshot report

Additional information about the mapping status of complex products and their components is included in the agents view of the Installs Snapshot report. When producing the report in the agent view, you can limit it to include only agents where unmapped components have been discovered, only agents where automatically mapped components have been discovered, or both.

An additional column, **Mapping status** (possible values, **Unmapped**, **Mapped**, and **Automatic Mapping**), and an additional button, **Complex product details**, are added to the agent view.

Selecting an agent and clicking **Complex product details** displays the details of complex products discovered on the agent in a tree structure. You can navigate the tree, expanding and collapsing its branches. Components that are mapped are displayed in bold and when you select one, its details are displayed, including how the mapping was created:

- For components mapped using one of the Manage Complex Product tasks, the details include the Web UI user ID that identifies the user who performed the task.
- For components, mapped by applying the mapping rule, the details include the name of the rule (MIN_PATH).

If a component that is discovered has more than one potential mapping, the component is mapped to a product according to the rule applied, but it also shown as a possible part of one or more other products. These entries appear in grey and cannot be selected. For example, the DB2 UDB Data Warehouse product includes the components DB2 UDB Data Warehouse, DB2 UDB ESE, and WebSphere Application Server. DB2 UDB ESE and WebSphere Application Server are shared components, and application of the MIN_PATH rule maps them to the products DB2 UDB ESE and WebSphere Application Server respectively. However, if the agent also discovers the DB2 UDB Data Warehouse component, it is possible that each of these shared components is really part of the DB2 UDB Data Warehouse product.

Database changes

The complex product mapping feature adds the following tables to the administration server database:

- SW_INV_ALGORITHM which stores the identification information for mapping rules. Currently the only rule available is MIN_PATH. See Table 1
- ALGORITHM_RELATIONSHIP which stores the relationships between each mapping rule and each entity (organization) defined in the database. See Table 2.
- BASE_PROPERTY which stores two types of information: activation or deactivation of mapping rules for an entity; definition of component links either by the automatic server process controlled by the mapping rules or by user intervention. See Table 3 on page 4

Table 1. The SW_INV_ALGORITHM table

Columns	Description	Type	Null
ID	Unique identifier of the mapping rule.	bigint	no
Name	Name of the mapping rule.	varchar	no
DESCRIPTION	Description of the mapping rule	varchar	no

Table 2. The ALGORITHM_RELATIONSHIP table

Columns	Description	Type	Null
SW_INV_ALGORITHM_ID	Unique identifier of a mapping rule defined in the SW_INV_ALGORITHM table.	bigint	no
TYPE	Indicates the relationship between the entity (organization) and the mapping rule: 1 Applied 2 Not applied .	smallint	no
TARGET_TYPE	Type of entity for which the mapping relationship is defined: 1 organization 2 division (not currently used)	smallint	no
TARGET_ID	The unique ID of the organization.	bigint	no

Table 3. The BASE_PROPERTY table

Columns	Description	Type	Null
ID	Unique identifier of the property	bigint	no
TYPE	Identifies the type of property: <ol style="list-style-type: none"> 1 Server (automatic) defined link 2 User-defined link 100 Enablement/disablement of mapping rules	smallint	no
OWNER_TYPE	Identifies the table that this property refers to: <ol style="list-style-type: none"> 1 Link: The row is related to information in the LINK table about links between components and products. 2 Sw_Inv_Algorithm: Not currently used. 3 Algorithm_Relationship: The row relates to information in the ALGORITHM_RELATIONSHIP table about the relationship between organizations and mapping rules. 	smallint	no
OWNER_ID	Identifies the row in the LINK or ALGORITHM_RELATIONSHIP table to which this row relates.	bigint	no
VALUE_INT	For properties of TYPE 100, this identifies the mapping enablement setting: <ol style="list-style-type: none"> 0 Off 1 On 	smallint	yes
VALUE_STRING	For server or user-defined links, identifies the user that defined the link. For server defined links, the value is "Server", for user-defined links it is a Web UI user ID.	varchar	yes
LAST_MODIFIED		timestamp	no

Backward compatibility

Limited availability interim fixes LA0006 and LA0008 are superseded by this fix.

Dependencies:

IBM Tivoli License Compliance Manager, Version 2.2

Fix pack 2.2.0 TIV-TLCM-FP0002

Installation, migration, upgrade, and configuration information

This section includes the following topics:

- "Hardware and software requirements" on page 5
- "Installing the interim fix" on page 5
- "Reverting to the previous version" on page 6

Hardware and software requirements

This section includes the following topics:

- “Supported platforms”
- “System requirements”

Supported platforms

Supported platforms at the time of the release are detailed in the *IBM Tivoli License Compliance Manager: Planning, Installation, and Configuration*. At the level of this interim fix, the following additional platforms are supported for agents:

- i5/OS V5R4
- Sun Solaris 10 on 64-bit Xeon Opteron processors
- Red Hat Enterprise Linux, version 3.0 Update 1 for xSeries
- Red Hat Enterprise Linux, version 3.0 Update 1,2 for pSeries and iSeries

System requirements

Hardware and software prerequisites are detailed in the *IBM Tivoli License Compliance Manager: Planning, Installation, and Configuration*. There are currently no changes to the information included in the guide.

However, this fix introduces the support for agents running on the Sun Solaris 10 operating system on AMD Opteron processors.

Installing the interim fix

This section contains the instructions for installing the interim fix. Once you have installed the interim fix, you cannot uninstall it automatically. For details of how to revert to the previous version see “Reverting to the previous version” on page 6.

This interim fix affects the runtime server, runtime server database, and administration server database components.

Note: During the installation of the fix on the server, the wizard stops and starts the server. If the server is running in a WebSphere® Application Server secure cell, you will be asked to provide the user ID and password for the secure cell. Ensure that you have this information before you start.

To install the interim fix on the runtime server, runtime server database, and administration server database, complete the following steps:

1. Log on to the computer where the server and its database are installed as administrator (Windows®) or root (UNIX®).

If the server and its database are installed on separate computers, you must complete the set-up procedure on both computers.

2. Unpack the interim fix zip file into a temporary directory.
3. Launch the setup file for the platform on which you are installing the fix. The installation wizard starts.

Note: No license agreement panel is displayed. The fix is subject to the same terms and conditions under which Tivoli License Compliance Manager, version 2.2 is licensed.

4. Specify a directory where the wizard can create a backup of your server configuration and other files that are affected by the fix and click **Next**.

If the wizard is unable to create the backup, the installation cannot continue. Ensure that you have the correct permissions to write to the specified directory and that there is sufficient space to create the backup.

5. Check the summary panel for the installation and click **Next** to confirm that you want to install the fix.

If the server is running in a WebSphere Application Server secure cell, you will be prompted to supply a valid user ID and password when the wizard stops and starts the server.

6. When the installation is complete, click **Finish**.

Reverting to the previous version

There is no automatic method for uninstalling this fix.

You must back-out the changes to the runtime server, to the runtime server database, and to administration server database. To do this:

1. Stop the servers.
2. Manually replace the server files that were changed by the installation of the fix with the backup copies taken during the installation.

Note: Ensure that you restore the file `product.xml`, which tracks the changes made in fix packs and fixes, to the directory `<INSTALL_DIR>\product.xml`

3. Restart the servers.

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