

IBM Tivoli Configuration Manager



# Readme File for Fix Pack 9 - PTF U828059 (Revised 2009/10/20)

*Version 4.2.3*

**Note**

Before using this information and the product it supports, read the information in "Notices" on page 111.

This edition applies to Fix Pack 9 (PTF U828059) for version 4, release 2, modification level 3 of IBM Tivoli Configuration Manager (program number 5724-C06)

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# IBM Tivoli Configuration Manager 4.2.3 ReadMe File for Fix Pack 4.2.3-TIV-TCM-FP0009 (PTF U828059)

This readme file provides important information about Fix Pack 9 (PTF U828059) for IBM® Tivoli® Configuration Manager Version 4.2.3. This readme file is the most current information for the fix pack and takes precedence over all other documentation for IBM Tivoli Configuration Manager, Version 4.2.3. This fix pack fixes a variety of defects of Tivoli Configuration Manager.

The Common Inventory Technology (CIT) level distributed in this fix pack is 2.6.0.12.

*Please review this section thoroughly before installing or using this fix pack.*

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## About this release

This section includes the following topics:

- “CD-ROM structure”
- “Manuals updated in previous fix packs” on page 4
- “Enhancements” on page 4
- “Product compatibility” on page 22
- “Limitations” on page 23
- “Product fix history” on page 25

## CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 includes *three* CD-ROMs as detailed in the following tables:

*Table 1. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 1*

Directory or path	Contents
/xml	The XML file to be used by the ISMP installation program.
/docs	Readme file.
/cit_enabler	Enabler for Inventory scan on VMware environments.
/CIT_SPB	Software package block (SPB) files used to upgrade the CIT component to version 2.6.0.12.
/dii	Files required for the Discovery Library Integration Framework Plug-in for Tivoli Configuration Manager.
/dla	Files required for the Tivoli Configuration Manager 7.1 Discovery Library Adapter.
/images/INVENTORY	Images required for Inventory fix pack.
/images/MCOLLECT	Images required for the Scalable Collection Services fix pack.

Table 1. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 1 (continued)

Directory or path	Contents
/images/SWD	Images required for Software Distribution, Activity Planner, Change Manager, Tivoli Resource Manager, Patch Management, Pristine Manager, Directory Query, Web User Interface, Query Directory for Microsoft Active Directory, Query Directory for Microsoft Active Directory-Command Line Interface, CM Endpoint Extension, CM Extension for Tivoli License Manager fix pack, and Tivoli Provisioning Manager for Operating System Deployment Integration.
/images/SWD_L10N/	Images required to install the national language support fix pack for Software Distribution.
/images/INVENTORY_L10N/	Images required to install the national language support fix pack for inventory.
/NewComponents/AD_INTEGRATION	Images required for Microsoft® Active Directory integration.
/NewComponents/EXTENSION	Images required for the license management extension
/NewComponents/TPMOSD	Images required to install Image Management Services.
/rad	The RAD files required to install Tivoli Provisioning Manager for Operating System Deployment.

Table 2. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 2

Directory or path	Contents
/tools/LoginControl	Software package block (SPB) and executable files used to implement the concurrent login feature. For more information on this feature, see “Enhancements” on page 4.
/tools/JarVersion	Scripts to retrieve and display the version of the .jar files currently installed.
/tools/apm_reporting	Files to implement the Activity plan group creation, submission, and tracking. For more information, see “Implementing the activity plan group management feature” on page 73.
/package	Software package block (SPB) files used to patch GUI components and the XML descriptor file.
/spb_installer	SPB Patch Installer that installs SPB fix pack locally and the SPB Patch Installer Guide.
/tpm_install	Files to implement an improved installation for Automation Server. To use the improved installation, in the installation image that you have copied from the Prerequisite Software Installer for Automation Server CD 2, replace the files in the /tpm_install directory with these files. For more information, see <i>IBM Tivoli Configuration Manager: Patch Management Guide</i> .



**Note:** The /PocketPC folder, existing in previous fix packs, has been removed because the fix related to APAR IY75778 has been implemented in the Tivoli Web Gateway installation images, located under the /twg\_installer directory.

*Table 3. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 3*

Directory or path	Contents
/twg_installer	Installshield program used to install the Tivoli Web Gateway component.

## Manuals updated in previous fix packs

The following manuals have been updated with the new features of Tivoli Configuration Manager 4.2.3 Fix Pack 3:

- *IBM Tivoli Configuration Manager: Planning and Installation Guide*. It describes how to install Tivoli Web Gateway fix pack 3.
- *IBM Tivoli Configuration Manager: User's Guide for Software Distribution*. It describes how to use the Nokia s60 device actions.
- *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution*. It describes the new supported actions for Nokia s60 devices.
- *IBM Tivoli Configuration Manager: User's Guide for Deployment Services*. It describes how to enable security for Nokia s60 devices.
- *IBM Tivoli Configuration Manager: Patch Management Guide*. It describes how to define filters for grouping endpoints and deploy the security patches to those groups of endpoints. It also describes how to use the new Microsoft .cab file.
- *IBM Tivoli Configuration Manager: User's Guide for Operating System Deployment Solution*. It describes how to implement an operating system imaging solution based on an IBM Tivoli Configuration Manager and Tivoli Provisioning Manager for Operating System Deployment environment.
- *IBM Tivoli Configuration Manager: License Management Extension*. It describes how to provide license management facilities in your Configuration Manager environment.
- *IBM Tivoli Configuration Manager: License Management with License Compliance Manager version 2.3*. It describes installation and upgrade procedures for implementing license management facilities from IBM Tivoli License Compliance Manager Version 2.3 into the Configuration Manager environment.
- *IBM Tivoli Configuration Manager: User's Guide for Inventory*. It describes how to install and uninstall the Common Inventory Technology component.
- *IBM Tivoli Configuration Manager: Database Schema Reference*. It describes new queries, tables, and views related to new enhancements such as the Nokia s60 support.
- *IBM Tivoli Configuration Manager: Release Notes*. It describes the supported operating systems and databases.

You can find the updated manuals on the Tivoli software information center Web site. Access the Tivoli software information center by first going to the Tivoli software library at the following Web address:

<http://publib.boulder.ibm.com/tividd/td/link/tdprodlist.html>.

Click **Tivoli product manuals**. In the Tivoli Technical Product Documents Alphabetical Listing window, click **IBM Tivoli Configuration Manager**, to access your product library at the Tivoli software information center.

## Enhancements

This section contains a cumulative list of enhancements introduced in the current fix pack, and in the previous fix packs and interim fixes.

- "New features in this fix pack" on page 5
- "New features in the previous fix packs and interim fixes" on page 6

## New features in this fix pack

This fix pack contains the following enhancements:

Table 4. Customer enhancement request references

	Enhancement	Reference
Inventory	Inventory software scan returns access time information	MR0808085933
Inventory	Exclude history tables	235414
Patch Management	Windows Update Agent (WUA) 3.0 support	
DLA	Discovery Library Adapter (DLA) version 7.1.-TCMDLA-I	

### Inventory software scan returns access time information - Feature MR0808085933

With this feature, if you perform an Inventory software scan, configured using the **Scan for installed products using signature matching** scan option, you retrieve new information named **ACCESSED TIME**, which shows the GMT time when the signature file was last accessed.

### Exclude history tables - Feature 235414

With this feature you can now exclude the history processing of some tables, to improve performance when loading the scan results into the database. All the Inventory tables that contain the **COMPUTER\_SYS\_ID** attribute have history data collected.

If you have Inventory tables for which you do not need to keep the history tables, perform the following steps:

1. Create the **EXCLUDED\_H\_TABLES** table.
2. Insert the name of the table to be excluded in **EXCLUDED\_H\_TABLES**.

You can find the SQL statements for performing these operations in the **h\_inv\_dbvendor\_schema\_423\_FP09.sql** script file.

### WUA 3.0 support

With this feature the support has been extended to WUA version 3.0 for the Patch Management component.

If you have installed WUA 3.0, perform the following steps before using the new WUA version:

1. Locate and open the **WUA.spd** file.
2. Replace for example all **WindowsUpdateAgent20-x86.exe** occurrences in the file with the following file name:

**WindowsUpdateAgent30-x86.exe**

For more details about the WUA 3.0 support, see also the "Limitations" on page 23 section.

### Discovery Library Adapter (DLA) version 7.1.-TCMDLA-I

The new version of the Discovery Library Adapter (DLA) for Tivoli Configuration Manager has been published on the OPAL Web site and replaces older versions.

This DLA provides resource instance and resource relationship instance information of the Tivoli Configuration Manager according to the IDML specification using a lightweight, easy-to-use solution based on IBM Tivoli Director Integrator.

## New features in the previous fix packs and interim fixes

The following enhancements were introduced in the previous fix packs and interim fixes:

Table 5. Customer enhancement request references

	Enhancement	Reference
<b>New component</b>	Tivoli Configuration Manager license management extension	
	Active Directory integration	
	Tivoli Provisioning Manager for Operating System Deployment integration	58233
	Tivoli Provisioning Manager for Operating System Deployment internationalized	
	Discovery Library Integration Framework Plug-in for Tivoli Configuration Manager	
<b>New platform</b>	Solaris x86 support	
<b>New Endpoint support</b>	Windows Vista support	
	Windows 2008 support	
	AIX 6.1 support	
<b>DLA support</b>	TCM Discovery Library Adapter v7.1	
<b>APM</b>	Search facility for saved activity plans	MR124044922
	Activity plan group creation, submission, and tracking	
	Immediate start for unique targets in conditioned activities	56060
	Cancel as preferred final status for a plan	56137
	Displaying the .jar files version	55204
	Displaying the patch level for the Activity Plan Editor and Activity Plan Monitor	55205
	Configure the Ignore option results	58122
	Targets resolved by APM Executer and no longer by APM Handler	59552

Table 5. Customer enhancement request references (continued)

	Enhancement	Reference
<b>Inventory</b>	Signature management improvement	MR0102021824
	Improved locale information management	MR0818036425 MR0708046050
	Correlation of software recognition data	M50408055916
	Windows® service information available on Inventory database	MR022103576
	Dynamic logical partitioning (LPAR) information on processor allocated on partitions	MR0216064754
	64-bit support for Inventory operations.	
	Wild card matching	
	Enabling TCM-TPM coexistence	
	Send a Tivoli notice managing lcf script package attributes	
	New 32-bit MRMBIOS.EXE	180357
	Virtual resource scan	MR0508067421
	Multi core support	MR0826056352
	Collect real and virtual network adapters	205563
	VMware host serial number	205720
	Collect LPAR information in a VMware environment	205561
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	Completing workflows separately	55260
	Performing patch management using WSUS	55317
	Patch Management extension	
	Patch automation for target filtering	MR0404064528
	New Microsoft catalog and WUA support	
	New options supported by wsubpln command: submit_plans	MR0503066815
	New options supported by wsubpln command: skip_plans_creation	MR0414062811
	WSUS 3.0 support	59432
	Windows 2008 endpoint support (1)	

Table 5. Customer enhancement request references (continued)

	Enhancement	Reference
<b>Software distribution</b>	Enable Move Data to retrieve AS/400® spool file	56336
	Avoiding concurrent logins during critical distributions	54613
	Performing the logoff operation on Windows endpoints	55186
	Customize the source host	
	Enabling TCM-TPM coexistence	
	Send a Tivoli notice managing lcf script package attributes	
	Maintaining the access attributes of already existing files and directories on a UNIX® target, a new attribute (preserve_unix) is available	55359
	Running a program before the reboot of a commit	55409
	Managing software packages	55487
	Working with the Software Distribution Endpoint Notification dialog	55522
	Add "defer" as possible default_action	IY92880
	Add scripts as arguments in <b>sp_val_operation</b> for data moving operations	59700
	Ignore option extended to targets not scanned	59702
<b>Tivoli Web Gateway</b>	Nokia s60 devices support	
	Nokia 9300i devices support	

**Note:** (1) No operating system patches are supported, only patches related to software applications.

#### **Cancel as preferred final status for a plan - Feature 56137**

Before submitting a plan, you can define its final status to Cancel if any of the plan activities have been cancelled and the others are successful, either by selecting **Set Cancel as preferred final status** in the General page of the **Plan Submission Parameters** notebook or by specifying `-Dis_cancel_preferred=y` in the **wsubpln** command.

#### **Emergency patch management - Feature 56053**

The Configuration Manager Patch Management solution identifies the set of patches to be deployed to each endpoint on the basis of a preventive endpoint inventory scan. This scan might cause critical delay in the patch installation. When the Administrator responsible for approval determines that an update, released in an important Microsoft security bulletin, needs to be implemented immediately, he can use the emergency patch management feature to defer the preventive inventory scan and install the update as soon as possible. For more information on this feature, see *IBM Tivoli Configuration Manager Patch Management Guide*.

#### **Patch Management deployment paradigm - Feature 56053**

This feature extends Software Distribution capabilities to the Patch Management solution, enabling the Patch Management component to retrieve the software package to be installed from a depot or a file server, rather than the source host. Use this feature in environments with communication problems, when retrieving a software package from a

source host might take time. For more information on this feature, see *IBM Tivoli Configuration Manager Patch Management Guide*.

#### **Enable Move Data to retrieve AS/400 spool file - Feature 56336**

With this feature the Data Moving Service in an OS/400® environment has been extended. You can now move OS/400 spool files from an OS/400 system to a Windows or UNIX target. Target systems can be endpoints or managed nodes. To differentiate the spooled files from the OS/400 native files, when running the **wspmvdata** command, specify the path name using the following format:

Job Number/Job User/Job Name/Spooled File Number

Ensure that Job Number is not preceded by a slash.

As an example see the following command:

```
wspmvdata -c -s @swd400 -t @intermesoli -P  
sp:028421/qtivoli/qlcfd/1 -P tp:/targetdir qprint
```

Where:

#### **swd400**

Is the OS/400 host name.

#### **intermesoli**

Is the receiver host name, either a managed node or an endpoint.

#### **sp:028421/qtivoli/qlcfd/1**

Identifies the spool file on the OS/400 system. If you omit the spooled file number (1 in this example), and more than one spool file exists for the same job, the last created spooled file is retrieved.

#### **/targetdir**

Is the destination path on the target system.

**qprint** Is the spooled file name to be retrieved. Do not use wildcards for spooled file names.

When performing a retrieve operation of an OS/400 spooled file, a new file is created under the specified destination directory using the following naming convention:

JobNumber.JobUser.JobName.SpooledFileNumber.SpooledFileName

In the example described above this file is /targetdir/  
028421.qtivoli.qlcfd.1.qprint.

#### **Notes:**

1. Notice the usage of the codepage translation option ( **c** ) in the example described above. Using this argument results in the OS/400 spooled file being translated from EBCDIC to ASCII codepage, before it is written to the UNIX or Windows destination location.
2. If the target system is a managed node, a subdirectory with the name of the origin host is created inside the destination directory on the target system. The naming convention for the subdirectory is as follows:

endpointname\_distributionID\_timestamp

For more details on the **wspmvdata** command, refer to the IBM Tivoli Configuration Manager: Reference Manual for Software Distribution.

### **Enabling proxy support for the SUS Patch Management solution**

You can use a proxy server to access the Microsoft Web site, or your local HTTP server where the mssecure.cab file has been downloaded.

You can customize the HTTP proxy server name (if enabled) and the related user ID and password (if required by the proxy settings). Proxy parameters are defined at installation time in the `tpm_update.req` file, as described in the readme of the interim fix. This feature guarantees a higher security when accessing the Internet or your local network.

### **Avoiding concurrent logins during critical distributions - Feature 54613**

On Windows operating systems, you can use the concurrent login feature to prevent the end user from logging in to the workstation and performing a shutdown while a distribution is taking place. This feature guarantees that critical distributions are not interrupted. You can also define a maximum number of logins that can be performed during a distribution. In this case, the distribution is paused and restarts after the user logs off. For more information, see “Implementing the concurrent login feature” on page 62.

### **Performing the logoff operation on Windows endpoints - Feature 55186**

You can perform the logoff operation on Windows endpoints. A new action has been added to the software package definition file. You can define the logoff operation in the following phases:

- `during_install`
- `during_remove`
- `during_commit`
- `during_undo`

For more information on this feature, see “Documentation notes” on page 75.

### **Displaying the .jar files version - Feature 55204**

You can display the version of APM .jar files, if the version is indicated in the .jar file. You can start the command on Tivoli servers and managed nodes after having set the Tivoli environment, as described below:

#### **On UNIX operating systems:**

```
./wjarversion.sh jarfile
```

#### **On Windows operating systems:**

```
wjarversion.bat jarfile
```

where:

*jarfile* Is the name of the .jar file for which you want to display the version. The following are the .jar files supported for this feature:

- `apm.jar`
- `apm_utils.jar`
- `swd_plugin.jar`
- `tl_plugin.jar`

The files required for implementing this feature are located in the `/tools/JarVersion` folder in IBM Tivoli Configuration Manager, Fix Pack 4.2.3-TCM-FP07.



### **Displaying the patch level for the Activity Plan Editor and Activity Plan Monitor - Feature 55205**

You can display the patch level installed for the Activity Plan Editor and Activity Plan Monitor by selecting the **About** menu item in the **Help** menu.

### **Completing workflows separately - Feature 55260**

You can decide whether patch management workflows are completed in one or in two steps. This feature guarantees a higher flexibility in the workflow process. For more information on this feature, see "Documentation notes" on page 75.

### **Performing patch management using WSUS - Feature 55317**

You can perform patch management using WSUS to implement the approval mechanism of patches and to download up-to-date patches from the Microsoft Web site. For more details on this new automated patch management solution, see the updated version of the *IBM Tivoli Patch Management Guide*.

### **Maintaining the access attributes of already existing files and directories - Feature 55359**

You can maintain the access attributes of already existing files and directories on UNIX. To enable this feature, select the **Maintain existing value** check box in the Add File System Objects Properties - Advanced window, **UNIX Attr.** tab of Software Package Editor or set `preserve_unix` to `y` in the `add_directory` or `add_file` stanzas of the SPD file.

### **A 32 bit scanner, `mrmbios.exe`, substitutes the 16 bit scanner - Feature 180357**

With this feature the Windows 64-bit platforms support has been extended. The old 16-bit `mrmbios.exe` file has been now replaced by a 32-bit file having the same name, and using new device drivers. The new `mrmbios.exe` file allows you to scan, in addition to the old platforms, new platforms such as AMD 64 and Itanium 64.

### **Running a program before the reboot of a commit - Feature 55409**

You can run a program before the reboot of a commit by setting the following variables in `swdis.var`:

#### **`__COMMIT_REBOOT_FORCED__`**

Specifies YES to force a reboot when a commit is run with `-cr` or `-co` parameters.

#### **`__BEFORE_REBOOT_PROG_PATH__`**

Specifies the path of the program to be run on the endpoints. If this variable is empty no program is run.

#### **`__BEFORE_REBOOT_PROG_ARGS__`**

Specifies arguments passed to the program. Separate arguments with a blank space.

#### **`__BEFORE_REBOOT_PROG_TIMEOUT__`**

Specifies the time, expressed in seconds, to wait for the completion of the program. Default is 60.

To enable this feature, you must set at least `__COMMIT_REBOOT_FORCED__` to YES and define the program path in `__BEFORE_REBOOT_PROG_PATH__`.

### **Managing software packages - Feature 55487**

You can set the `use_real_capabilities` key to true with the `wswdmgr` command to not distribute a software package on targets belonging to

policy regions where the administrator, submitting the distribution, does not have the required roles. The default is false.

**Working with the Software Distribution Endpoint Notification dialog - Feature**

**55522** The Software Distribution Endpoint Notification dialog that pops up on the screen of the endpoint when a software package is submitted for distribution is changed. In the title bar the Close button (X) no longer appears. The Cancel push button is replaced by the Reset push button that resets the changed values in this dialog with the default values for this operation. To close the dialog you must click OK.

**Tivoli Configuration Manager license management extension**

You can use the Configuration Manager license management extension to provide license management facilities. For details see *IBM Tivoli Configuration Manager: License Management Extension*.

**Patch Management extension**

The solution manages Microsoft patches, service packs, and update rollups for the following operating systems and applications:

- Windows 2000 Professional SP 3 or later
- Windows 2000 Server SP 3 or later
- Windows 2000 Advanced Server SP 3 or later
- Windows XP Professional
- Windows XP Home Edition
- Windows 2003 Server Standard Edition
- Windows 2003 Server Enterprise Edition
- Windows 2003 Server Web Edition
- Internet Explorer 5.01 or later
- Media Player 6.4 or later
- Exchange 2000 Server
- Exchange Server 2003
- Microsoft Office 2000
- Microsoft Office XP
- Microsoft Office 2003

For details, see *IBM Tivoli Configuration Manager Patch Management Guide*.

**Active Directory integration**

IBM Tivoli Configuration Manager provides the capability of merging Active Directory and endpoint information into a relational database. See *Tivoli Monitoring: Active Directory Agent* for more information.

**Solaris x86 support**

Tivoli Configuration Manager is supported on Tivoli Management Framework 4.1.1 endpoints running Solaris 8, 9, 10 for x86 architecture, in particular Solaris 10 for AMD Opteron processor.

**Search facilities for saved activity plans**

A dynamic search has been added to group saved plans.

**Activity plan group creation, submission, and tracking**

This feature introduces a tool that manages groups of activity plans as a single entity. A script is used to create the group of activity plans and assign a name to the group. A further script is then scheduled as a repeating job to first submit the group of plans and then produce HTML format reports of its progress by querying the APM and MDIST2

databases. See “Implementing the activity plan group management feature” on page 73 for instructions about using this tool.

#### **Immediate start for unique targets in conditioned activities**

With this feature you can add a new submission parameter to the Activity Planner. When submitting a plan, it is now possible to enable the Activity Planner server to evaluate all the conditioned activities of a plan, as soon as the plan is submitted. In this way if a conditioned activity has a target, which is not contained in a conditioning activity, the operation for that target starts immediately. One limitation is that a plan with at least one activity, having the option target computation at activity execution set, cannot be submitted if this feature is enabled.

To enable this feature from the Activity Planner command line, run the **wsubpln** command in the following way:

```
wsubpln -r plan_name -Dpre_eval_conditions=true
```

To enable this feature from the Activity Planner GUI, the **Pre-evaluate conditions at plan submission** check box has been added to the **Plan Submission Parameters** panel.

To enable this feature from the Change Manager command line, specify the **-e** option when running the **wsyncrmod** command, or select the **Pre evaluate conditions at plan submission** check box which has been added to the **Select activity plan name** panel.

#### **Signature management improvement**

To allow a more accurate software scan, Inventory has been modified to use complex signatures and a new catalog including not only files, but registry keys, mixed and extended signatures. See *IBM Tivoli Configuration Manager: User's Guide for Inventory*

#### **Improved locale information management**

With this feature the Inventory scan distinguishes language specific operating system information for Windows operating systems. The mixed language environment is supported. See *IBM Tivoli Configuration Manager: User's Guide for Inventory*.

#### **Correlation of software recognition data**

Enhancement of the Inventory signature scan to retrieve the path for file signatures and store them in the database. This enhancement enables the scan to identify and differentiate between multiple instances of a signature on the same endpoint. See *IBM Tivoli Configuration Manager: User's Guide for Inventory*.

#### **Windows service information**

Information on the services present on a Windows workstation is added to the set of information that Inventory can collect. See *IBM Tivoli Configuration Manager: User's Guide for Inventory*.

#### **Dynamic logical partitioning (LPAR) information on processor allocated on partitions**

In environments that have logical partitions, Inventory can collect LPAR information. The operating systems on which LPAR information can be discovered are the following:

- AIX®, version 5.3 on P5
- Red Hat Enterprise Linux® Advanced Server, version 4.0 on PowerPC® iSeries®
- SuSE Linux Enterprise Server, version 9 on PowerPC iSeries
- HP-UX, version 11.11 on HP9000

- Sun Solaris Operating Environment, version 10 on Sun SPARC

### Stop on failure check box

With this feature you can soften the check performed by Change Manager on each ex-requisite dependency, related to a Software Distribution element, to avoid a failure in the synchronization process, if the condition is not met on one of the target machines. Using this feature you can control the Change Manager behavior when evaluating the dependency. The **Stop on failure** check box has been added to Change Manager to activate the feature.

To enable this feature, perform one of the following actions:

- Right-click the **Dependencies** pane of the **Software Distribution element** panel. Select the **Software Distribution Ex-requisite** dependency type from the **Add** menu. By default, the **Stop on failure** check box is selected and active, to maintain compatibility with the previous fix pack level.
- Select **Software Distribution element** from the **Add** menu. The **Software Distribution element** panel is displayed. Click the **Distribution Options** button to display the **Distribution Options** panel. By default, the **Stop on failure** check box is greyed out. It becomes active after adding a Software Distribution ex-requisite dependency to the Software Distribution element specified.
- From the **Edit** menu, select **Create Reference Model**. The **Properties** panel is displayed. By default, the **Stop on failure** check box is greyed out. It becomes active after adding a Software Distribution element, which contains a Software Distribution ex-requisite dependency.

### Enabling Tivoli Configuration Manager - Tivoli Provisioning Manager coexistence

A new resource, ReportManager, has been included in Software Distribution product. It is needed to enable the Tivoli Configuration Manager - Tivoli Provisioning Manager coexistence. ReportManager is used to provide the reports to Tivoli Provisioning Manager when distributions are initiated by Tivoli Provisioning Manager itself. To enable the integration, the \$BINDIR/TME/ReportManager/rep\_DB\_Vendor.sql script must be executed to update the inventory database. Supported database vendors are DB2 and Oracle.

### Send a Tivoli notice managing lcf script package attributes

For Software Distribution a Tivoli notice is sent each time a value related to the following package attributes is enabled during the import operation, or changed when re-importing or using the wsetspgs command. The change can be performed using both SPEditor or command line interfaces. The notice is not sent if the value remains the same.

This is the list of the existing attributes for which the notice is activated with the current feature:

- lcf\_before\_prog\_path
- lcf\_before\_prog\_args
- lcf\_before\_prog\_timeout
- lcf\_after\_prog\_path
- lcf\_after\_prog\_args
- lcf\_after\_prog\_timeout

For Inventory a tivoli notice is sent to the inventory notice group, when the (after and/or before) script content for UNIX (and/or pc) of an

InventoryConfig profile changes. For Inventory four different messages have been added: one for every script content that changes. The message is related to one of the following four scripts:

- the before script for pc
- the after script for pc
- the before script for UNIX
- the after scripts for UNIX

#### **Customize the source host for Data Moving endpoint to endpoint**

With this feature the source host for Data Moving endpoint to endpoint send and delete operations is not necessarily the Tivoli server anymore. With this feature the source host can be customized. A default value can be set using the following command:

```
wswdcfg -s datamoving_source_host=ManagedNode name
```

#### **Nokia s60 support**

With this feature, the Nokia device support has been extended. IBM Tivoli Configuration Manager now supports Nokia s60 devices. The entire set of functions already supplied for the Nokia 9500 and Nokia 9300 devices is supported. Moreover some new functions are supported only for Nokia s60 devices. This means:

- The ability of defining the device using TRM
- The ability of creating and managing software packages capable of performing device provisioning, device management, application distribution, and notification actions
- The ability of managing all the supported configuration options when performing device management operations
- The ability of performing the following actions:
  - TARM config
  - wipe
  - reboot
  - process listing
  - process stop
  - generic
- The ability of performing hardware, software, and configuration scanning of the Nokia s60 device.

#### **Virtual resource scan - Feature MR0508067421**

With this feature, it is possible to report the virtual SCSI devices assigned to a logical partition, only for AIX platforms. When running an Inventory hardware scan to discover storage devices on a logical partition of an AIX workstation, the virtual SCSI devices are now reported in the STORAGE\_DEV\_QUERY, which displays the new storage device type called "Virtual Disc". The operating systems for which this information can be discovered are the following:

- IBM AIX 5.2 (32-bit and 64-bit)
- IBM AIX 5.3 (32-bit and 64-bit)

#### **Multi core support - Feature MR0826056352**

With this feature, it is possible to report the correct number of physical processors, logical processors assigned to each core, and the cores on the physical processor in the inventory tables, views, and queries. A multi-core processor is one that combines two or more independent processors into a

single package. The operating systems for which this information can be discovered by the Common Inventory Technology are the following:

- AIX
  - IBM AIX 5.2 (32-bit and 64-bit)
  - IBM AIX 5.3 (32-bit and 64-bit)
- HP-UX
  - HP-UX 11i PA-RISC
  - HP-UX 11i for Itanium
- Linux
  - Red Hat Enterprise Linux 3.0 (U1) AS/ES/WS for i386
  - Red Hat Enterprise Linux 4.0 AS/ES/WS for i386
  - Red Hat Enterprise Linux 4.0 x86\_64 AS/ES/WS
  - Red Hat Enterprise Linux 3.0 (U2) (AS) PPC for iSeries and pSeries 64-bit (AS)
  - Red Hat Enterprise Linux v4.0 PPC for iSeries and pSeries 34-bit (AS)
  - Red Hat Enterprise Linux 3.0 (U1) s390/s390x for S/390 and zSeries (AS)
  - Red Hat Enterprise Linux 4.0 s390/s390x for S/390 and zSeries (AS)
  - SuSE Linux Enterprise Server 8 (SP2a) for i386
  - SuSE Linux Enterprise Server 9 for i386
  - SuSE Linux Enterprise Server 9 for x86\_64
  - SuSE Linux Enterprise Server 8 (SP3) PPC for iSeries and pSeries 64-bit
  - SuSE Linux Enterprise Server 9 PPC for iSeries and pSeries 64-bit
  - SuSE Linux Enterprise Server 8 s390/s390x for S/390 and zSeries
  - SuSE Linux Enterprise Server 9 s390/s390x for S/390 and zSeries
  - SuSE Linux Enterprise Server 10 for i386
  - SuSE Linux Enterprise Server 10 for x86\_64
  - SuSE Linux Enterprise Server 10 s390/s390x for S/390 and zSeries
  - SuSE Linux Enterprise Server 10 PPC for iSeries and pSeries 64-bit
- Sun Solaris
  - Sun Solaris 8 SPARC (32-bit and 64-bit)
  - Sun Solaris 9 SPARC (32-bit and 64-bit)
  - Sun Solaris 10 SPARC (32-bit and 64-bit)
  - Sun Solaris 10 x86
- Windows
  - Windows 2000 Professional/Server/Advanced Server (SP3)
  - Windows XP Professional (32-bit)
  - Windows 2003 Server (Standard and Enterprise Editions)
  - Windows 2003 x64 (Standard and Enterprise Editions)
  - Windows Vista (Desktop)

#### **Patch automation for target filtering - Feature MR0404064528**

With this feature, you can define filters for grouping endpoints and deploy the security patches to these groups of endpoints. It is now possible to define filters based on the information already available in the Inventory database, and also to create groups of endpoints using the new wsecgrp



command. For more details on this command, see the IBM Tivoli Configuration Manager: Patch Management Guide.

#### **New Microsoft catalog and WUA support**

You can perform patch management also using the new Microsoft .cab file and its associated WUA. For details see the IBM Tivoli Configuration Manager: Patch Management Guide.

#### **New options supported by the wsubpln command - Features MR0503066815 and MR0414062811**

The wsubpln command now supports the following new options:

##### **submit\_plans**

If this option is enabled, an automatic plan submission occurs immediately after the plan creation.

##### **skip\_plans\_creation**

If this option is enabled, the plan is created at the end of the workflow.

For more details on this command, see the IBM Tivoli Configuration Manager: Patch Management Guide.

#### **Tivoli Provisioning Manager for Operating System Deployment integration - Feature 58233**

This fix pack provides the integration with the product Tivoli Provisioning Manager for Operating System Deployment Version 5.1 through the new component Tivoli Provisioning Manager for Operating System Deployment integration Version 4.2.3. Only English version is currently available, the localized versions will be available in the next fix pack. This integration replaces the old "Image Management Services Integration, Version 4.2.3" released with fix pack 2, that needs to be uninstalled before installing the Tivoli Provisioning Manager for Operating System Deployment integration. For more details, refer to the IBM Tivoli Configuration Manager: User's Guide for Operating System Deployment Solution.

#### **Windows Vista support**

The endpoint support has now been extended to endpoints having the Windows Vista platform installed. As prerequisite, you must install the following Framework patch on the Windows Vista endpoints of your environment:

4.1.1-LCF-0042

The Web Interface component is not supported on Windows Vista endpoints.

#### **Configure the Ignore option results in APM - Feature 58122**

A new check box has been added to customize the behavior of the Activity Planner Monitor for those targets failing the CM\_STATUS validity check for a software distribution (SWD) activity when the "Ignore" option is set. This new check box will be enabled only when the "Ignore" check box is set. When the check box is set, all targets on which the validation fails will be marked as 'failed'. If this check box is not checked (default) the old behavior will be in effect: targets for which the validation failed will be marked as successful.

#### **Add "defer" as possible default\_action - Feature IY92880**

When a software distribution is performed specifying some options in the User Notification Settings panel, not only "accept" and "reject" can be

selected as default action, but also "defer". The default action is the action that is run after the specified timeout if no changes are performed on the User Notification Settings panel.

#### **Nokia 9300i devices support**

With this feature, the Nokia device support has been extended. IBM Tivoli Configuration Manager now supports Nokia 9300i devices. For these new devices, the same set of functionalities of the Nokia 9300 devices is supported.

#### **Tivoli Provisioning Manager for Operating System Deployment internationalized**

With this feature, the Tivoli Provisioning Manager for Operating System Deployment product has been internationalized. To enable this feature, install SWD\_L10N under the /images path and the Tivoli\_APM\_GUI\_L10N\_Fix.v4.2.3.FP04.spb software package block under the /package path.

#### **Collect real and virtual network adapters - Feature 205563**

The network adapter table needs to differentiate between real and virtual adapters. A new table ALL\_NET\_ADAPTER (H\_ALL\_NET\_ADAPTER) having ADAPTER\_ID and COMPUTER\_SYS\_ID as fields was created. New views (ALL\_NET\_CARD\_VIEW, H\_ALL\_NET\_CARD\_VIEW) and new queries (ALL\_NET\_CARD\_QUERY, H\_ALL\_NET\_CARD\_QUERY) were also created.

#### **VMware host serial number - Feature 205720**

Scanning a Windows VMware guest workstation, Inventory reports the serial number of the VMware host in the SERIAL NUMBER column of the LPAR view.

#### **Collect LPAR information in a VMware environment - Feature 205561**

Inventory now uses the Common Inventory Technology (CIT) capability to collect LPAR information in a VMware environment. CIT provides an enabler to export correct data to the guest systems so that CIT instances installed on each operating system partition can discover and return correct data. The enabler is provided to bypass current limitations of some virtualization software and should not be seen as a standard part of the Inventory offering.

#### **Targets resolved by APM Executer and no longer by APM Handler - Feature 59552**

To fully use this enhancement, activity plans must be submitted with target resolution at plan submission and not at activity execution.

To enable this feature, add the following entry to the apm.ini file:  
resolve\_targets\_in\_executer=yes

in the [ENGINE\_TUNING] section of the file.

Enabling this feature, the Activity Planner Handler can now handle other activity plan actions, while the targets are being resolved by the Activity Planner Executer.

#### **WSUS 3.0 support - Feature 59432**

Prerequisites for using WSUS version 3.0 are the following:

1. Install the "Microsoft SQL Server Native Client" from the Microsoft Web site.



2. Install the "Microsoft SQL Server 2005 Command Line Query Utility" from the Microsoft Web site.
3. Set the two **wseccfg** command parameters as follows:
  - **wsus\_db\_host=\\.\pipe\MSSQL\$MICROSOFT##SSEE\sql\query**
  - **wsus\_version=3**

With this feature the **WSUS\_info\_retriever.sh** script has been modified to accept the **-v3** new parameter.

#### **Windows 2008 endpoint support for Patch Management**

Endpoints having Windows 2008 installed are now supported among the targets managed by the Patch Management solution. On these targets, no operating system patches are supported, only patches related to software applications. The support for operating system patches is deferred until an operating system patch is provided for testing purposes.

#### **Windows 2008 and AIX 6.1 support**

The endpoint support has now been extended to endpoints having the following Windows platforms installed:

- Windows Server 2008 Standard (ix86 only)
- Windows Server 2008 Enterprise (ix86 only)

and to endpoints having the AIX platform version 6.1 installed.

This extended support is for endpoints only. Web Interface and GUI functions are not supported on these platforms, because Java version 1.3.1 is not supported.

Install the Windows 2008 and AIX 6.1 endpoint using the endpoint setup released with the following patch:

4.1.1-LCF-0051.

#### **TCM 7.1 Discovery Library Adapter (DLA) support**

This Discovery Library Adapter (DLA) collects data from Tivoli Configuration Manager 4.2.3 and creates Discovery Library books containing information about the resource instances and their relationships known to the system. The Discovery Library books can be imported into CCMDB or into a data store for which a Discovery Library Reader exists.

This DLA package is located on the Tivoli Configuration Manager Version 4.2.3 Fix Pack 8 CD 1 under the **/dla** directory.

For more details about the DLA package, refer to the *Readme* contained in the zip file named **TCM\_DLA.zip** stored on the Tivoli Configuration Manager Version 4.2.3 Fix Pack 9 CD 1 under the **/dla** directory.

#### **Discovery Library Integration Framework Plug-in for Tivoli Configuration Manager**

The Discovery Library Integration Framework provides a set of reusable software components which work together to perform discoveries of Configuration Items (CIs) that are to be maintained by CCMDB. The plug-in for Tivoli Configuration Manager is responsible for discovering the CIs specific to the Tivoli Configuration Manager product.

This plug-in is located on the Tivoli Configuration Manager Version 4.2.3 Fix Pack 9 CD 1 under the **/dii** directory.

For more details about the plug-in, refer to the *User's Guide* contained in the zip file named **TDI\_CCMDB\_TCM\_plugin1.2.zip**. The file name for the User's Guide is **TDI\_CCMDB\_TCM\_plugin\_UserGuide.pdf**.

## Add scripts as arguments in `sp_val_operation` for data moving operations - Feature 59700

Add the pre- and post-scripts to the arguments that the data moving operation passes to the `sp_val_operation` validation policy script. For more details about the `sp_val_operation` validation policy, refer to the *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution*. With this feature the arguments that the data moving operation passes to the `sp_val_operation` validation policy script are the following:

For the **Delete** operation:

```
$1 --> DataMovingRequests.1
$2 --> delete
$3 --> <target_path>
$4 --> <file>
$5 --> SCRIPT_LIST
<stdin> --> <target endpoint list>
```

For the **Send** operation:

```
$1 --> DataMovingRequests.1
$2 --> send
$3 --> <source_path>
$4 --> <target_path>
$5 --> <file>
$6 --> <source_host>
$7 --> SCRIPT_LIST
<stdin> --> <target endpoint list>
```

For the **Retrieve** operation:

```
$1 --> DataMovingRequests.1
$2 --> retrieve
$3 --> <source_path>
$4 --> <target_path>
$5 --> <file>
$6 --> <source_host>
$7 --> SCRIPT_LIST
<stdin> --> <target endpoint list>
```

For the **Endpoint to Endpoint** operation:

```
$1 --> DataMovingRequests.1
$2 --> retrieveE2E
$3 --> <source_path>
$4 --> <target_path>
$5 --> <file>
$6 --> <source_endpoint>
$7 --> SCRIPT_LIST
<stdin> --> <target endpoint list>
```

where: **SCRIPT\_LIST** is a single argument which contains the following four lines:

```
spre:<spre_script>
spost:<spost_script>
tpre:<tpre_script>
tpost:<tpost_script>
```

separated by the `\r` character.

On UNIX platforms, a direct "echo" of the entire `SCRIPT_LIST` causes the following behavior: every line is written above the previous one, because `\r` represents the carriage return. For this reason you can only see the last line of the script.

You must create a validation script to extract the four lines contained in the `SCRIPT_LIST` argument. For example, for a **Retrieve** operation on Solaris platforms, a simple way to do this is as follows:

```
echo $7 | awk -F^M ' {print $1"\n"$2"\n"$3"\n"$4}' | while read a
do
  <use $a variable that contains a single line>
done
```

where:

**^M** Does not represent the characters **^** and **M**. It represents the sequence of the **ctrl-v** and **ctrl-m** key combinations.

Another example of how to create the validation script is the following:

```
echo $7 | awk '{n=split($0, v, "\r"); print v[1]"\n"v[2]"\n"v[3]"\n"v[4]}'
| while read a
do
  <use $a variable that contains a single line>
done
```

### Ignore option extended to targets not scanned - Feature 59702

The **ignore** option for the remove operation has been extended to targets which have not been scanned and do not have an entry in the `COMPUTER` table. If a remove operation is performed on mixed targets (some have an entry in the `COMPUTER` table while others do not) by the Activity Planner using the **ignore** option (**-I**), the targets that do not have an entry in the `COMPUTER` table are skipped, and the remove operation proceeds with the targets that have been scanned. In the software package log file, the following error message is displayed for the targets that do not have an entry in the `COMPUTER` table:

```
DISSE0072E List of targets on which the requested operation cannot be
submitted:
endpoint_name DISSE0407E Failed cm_status check.
```

You must take remediation actions on these targets by either running a scan on them, or by sending a dummy software package before performing a remove operation on them. If the remove operation is performed by the Activity Planner, a target on which the validation fails shows the "success" state. If you want a validation failure to be considered as a failure, also by the Activity Planner, you must set the **FailOnValidationFailure** option using the Activity Planner, in addition to the **ignore** option. In case of mixed targets, scanned and not scanned, the `DISSE0329E` error message keeps displaying if you do not use the **ignore** option. The text of the error message has been changed as follows:

```
DISSE0329E Mixed targets (with an entry in COMPUTER table and without
an entry) are not allowed in the remove operation if the force option
is not set. Use the ignore option to skip the not scanned targets or
submit two different requests or perform a scan for all targets.
```

Also, the text of the `DISSE0330E` error message has been changed as follows

```
DISSE0330E Remove operation for targets having a different package state
in the Inventory database is not allowed if the force option is not set.
You can use the ignore option to skip the not installed targets if you
disable the remove_not_installed by running
swdcdg -s disable_remove_not_installed=y.
```

to indicate the possibility of using the **ignore** option to skip the non-installed targets, if you disable the **remove\_not\_installed** option by running the following command:

```
wswdcfg -s disable_remove_not_installed=y
```

Using this setting, you do not receive the DISSE0330E error message in case of mixed targets, installed and not installed.

#### **New fields added to the LPAR table - Feature 221408**

The following attributes have been added to the LPAR table to manage logical partitions on AIX platforms:

##### **PHYS\_SHAREDPC**

The physical shared pool capacity.

##### **PHYS\_SHAREDPC\_CORES**

The physical shared pool capacity in cores.

##### **LPAR\_ONLINE\_VP\_COUNT**

The number of online virtual processors in the partition.

##### **LPAR\_IS\_SHARED\_TYPE**

If the partition runs on a shared pool of processors, then the value of the field is Y. Otherwise the partition is dedicated and the field value is N.

##### **LPAR\_IS\_CAPPED**

If partition is of a shared type and is marked as capped, then the field gets the value Y. In other cases it is N or empty as in the case of dedicated partition.

##### **LPAR\_ENTITLEMENT**

The current entitlement of the partition, such as the number of processing units that the partition is guaranteed to get if it needs them.

##### **LPAR\_MIN\_VP\_COUNT**

The minimum virtual processor setting for the partition.

##### **LPAR\_MAX\_VP\_COUNT**

The maximum virtual processor setting for the partition.

##### **LPAR\_MIN\_CAPACITY**

The minimum capacity for the partition.

##### **LPAR\_MAX\_CAPACITY**

The maximum capacity for the partition.

##### **LPAR\_IDLE\_CP\_WEIGHT**

The idle capacity weight setting for the partition, such as the priority of the partition when idle CPU resources are distributed among partitions.

##### **SMT\_IS\_ENABLED**

The SMT (Simultaneous Multithreading) status in the partition. If SMT is enabled the field is Y; if SMT is disabled it is N.

##### **NODE\_ACT\_PROC\_COUNT**

The number of physical CPUs that are licensed and active in the system. For IBM partitioned systems, it is the total of dedicated processors and shared processors.

## **Product compatibility**

Compatibility is defined as whether different versions of a Tivoli product can communicate with different versions of Tivoli Management Framework or other Tivoli products.

IBM Tivoli Configuration Manager, Version 4.2.3 fix pack 4.2.3.-TIV-TCM-FP0009 was tested using:

- Tivoli Management Framework, Version 4.1.1 plus the following interim fixes:
  - 4.1.1-LCF-0056 to be installed on the Tivoli gateways.
  - 4.1.1-TMF-0100 to be installed on the managed nodes with JRIM and JCF components installed.
  - 4.1.1-TMF-0104 to be installed on Tivoli servers, managed nodes, and gateways.

## Limitations

**Defect 240380:** When performing an Inventory file system scan using file filters, the scan might not work as expected: all files, not only the files listed in the filters, are reported by the `tivfscan.mif` file.

**Defect 239580:** When performing an Inventory scan for detecting the patches installed, the `tivpatchscan.mif` file is not created, the Inventory scan might fail and the log file display the 52 error code.

First workaround: The error is in WUA and might need OS-vendor support. In some cases, the problem is resolved by running the following Windows script: `resetWUA.cmd`

This is an as-is script which can be downloaded from the Microsoft Web site. It runs only on Windows XP and Windows 2003 platforms.

Second workaround: If you have not solved the problem using the first workaround, or if you have other Windows platforms, install WUA 3.0 version 7.4.7006.226.

The Windows Update Agent (WUA) can be updated from the following Microsoft Web site:

[http://msdn.microsoft.com/en-us/library/aa387285\(VS.85\).aspx](http://msdn.microsoft.com/en-us/library/aa387285(VS.85).aspx)

**Defect 59806:** A patch installation might fail with exit code 1641. The workstation is automatically rebooted, and the patch installation is completed when the workstation restarts. If the patch installation was performed using an activity plan, also the activity plan fails. Use the `wsecurpt` command to verify the patch installation.

**Defect 59828:** An activity plan for installing Microsoft service packs might fail. In the Software Distribution log file, one or more patches, contained in the service pack, fail with exit code 1642. This exit code does not mean that the service pack installation has failed, it means that the specific patch is not needed because the specific software module you are trying to upgrade is not present.

**Defect 59811:** The "2007 Microsoft Office Suite Service Pack 1" installation fails. If you perform a query in Patch Management using the `wsecurpt` command, the patch is missing. Despite this error, in most cases the patch has been installed correctly. Verify the patch installation from the **Add or Remove Programs** list of the Windows operating system. A ticket has been opened to Microsoft for this software limitation.

**APAR IZ16608:** If you have problems because the 64-characters size of the `KEYBOARD_TYPE` column of the `COMPUTER` table is too small, the fix

introduced by **APAR IY68842** with Tivoli Configuration Manager Version 4.2.3 Fix Pack 4, which enlarges the **KEYBOARD\_TYPE** column to 128 characters, does not apply if the following conditions are met:

- You have installed Tivoli Configuration Manager Version 4.2.3 without migrating from previous versions.
- You have run the SQL fresh install scripts before installing Tivoli Configuration Manager Version 4.2.3 Fix Pack 4.

In this case you can solve this issue by running from the database vendor interface the following SQL statement against the Inventory database:

```
alter table COMPUTER alter column KEYBOARD_TYPE set data type varchar(128);
```

**APAR IY88658:** The SSL connection is not supported for the Enterprise Directory Query component.

**Defect 58552:** When running an activity plan to install a patch on a Windows 2000 Advanced Server, the patch installation might fail with exit code 1. The problem is generated by the way parameters are parsed by the operating system.

As a workaround to successfully install the patch, you must modify the `inhibit_parsing` key. Inhibit parsing prevents the standard parsing of the values passed to the patch installation script. To modify the value of the `inhibit_parsing` key, perform the following steps:

1. In the Patch Management policy region, locate the patch that you are trying to install and unbuild it by converting the software package
2. Launch the Software Package Editor and edit the Execute Program object named `$(temp_dir)\Hotfix\$(EXE)`
3. Select **Advanced**
4. Clear the **Inhibit Parsing** check box
5. Save and close the modified software package
6. Rebuild the software package by converting it
7. Distribute the software package only to the endpoints on which the distribution failed previously.

Refer to the *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution* and *IBM Tivoli Configuration Manager: User's Guide for Software Distribution* for more information about the inhibit parsing option.

**Defect 201407:** If the Common Inventory Technology (CIT) package is installed on the endpoint in transactional mode, and the following commit operation is not performed or fails, a subsequent transactional installation of the same package fails with RC=10.

To avoid this problem, before installing CIT, you must perform the commit operation or manually uninstall CIT. This problem might occur especially when you install CIT using an inventory scan.

**Defect 200891:** After the installation of this fix pack, the first distribution of an Inventory Profile might end showing an error message. This happens when the profile is configured to run a hardware scan with Data Options set as "Update with differences" and on the endpoint there is already the `tivhscan.bk1` file. The encountered error is the following:

```
Q MethInit ** Exception caught in run_impl: MIF parse error:
Type mismatch for group.
```



The problem does not occur when distributing an Inventory Profile configured to run a hardware scan with Data Options set as "Replace with current results".

**Defect 184765:** In an environment where Hub and Spoke Rim hosts refer to the same RDBMS and where Spoke regions are upgraded before the Hub region, in the period between upgrade of the Spokes and upgrade of the Hub signature matching signature scans can only be requested from the Hub region.

**Defect 182062:** In IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 3, the legacy scan for USB devices on Itanium machines has been disabled because of a Microsoft problem.

**Defect 181204:** When you distribute a hardware scan profile to a Windows 2003 with an AMD Opteron processor, the processor being detected is incorrect. It results in "Pentium® M" instead of "AMD Opteron Family" because of a Microsoft problem.

**Defect 58779:** In the Distribution Status Monitor and Activity Planner Monitor GUIs running with JRE 1.3.1 on Windows Vista, the time is always displayed in GMT time zone. This is a bug of JRE 1.3.1 on Windows Vista operating system: the `TimeZone.getDefault()` method returns GMT whatever the operating system locale. As a result, all Java GUIs on Windows Vista have this problem.

**Defect 58827:** Message sent to the Activity Plan Monitor and stored in the activity plan database are truncated if their length is greater than the length defined in the schema. All the messages, except for Tivoli Provisioning Manager for Operating System Deployment messages, are truncated at the end. The Tivoli Provisioning Manager for Operating System Deployment messages are truncated at the beginning because they start with the copyright information, which is not useful for the error explanation.

## Internationalization limitations

**Defect 58877:** Messages displayed in **Error Messages** when you monitor an IBM Tivoli Provisioning Manager for Operating System Deployment plan, by selecting a target and then **Show/Hide Details** from the pull-down menu of the Activity Plan Monitor GUI, are sometimes in English.

**Defect 58757:** The Tivoli Provisioning Manager for Operating System Deployment messages that are displayed in the Activity Plan Monitor after you submit a plan are garbled. **Workaround:** You can either change the language of Tivoli Provisioning Manager for Operating System Deployment to English or open the `rbagent.log` log and search for the corresponding error message.

**Defect 58916:** When a DB2 error occurs on Tivoli Provisioning Manager for Operating System Deployment in a non-English environment, the DB2 error message shown in Activity Plan Monitor might be garbled. This is due to a known problem of IBM Tivoli Provisioning Manager for Operating System Deployment Fix Pack 1. To identify the error look for the DB2 message ID and SQL code in the DB2 message reference.

## Product fix history

The following sections include all interim fixes shipped since the IBM Tivoli Configuration Manager, Version 4.2.3 release. It is divided into the following subsections:

- "Fixes contained in this fix pack" on page 26

- “Fixes contained in previous fix packs and interim fixes” on page 33

## Fixes contained in this fix pack

Table 6 lists the fixes included in this fix pack:

*Table 6. Fixes included in this fix pack*

Fix pack	Component/Service
4.2.3-TIV-INV-FP0009	Inventory, Version 4.2.3
4.2.3-TIV-INVGW-FP0009	Inventory Gateway, Version 4.2.3
4.2.3-TIV-CLL-FP0009	Scalable Collection Service, Version 4.2.3
4.2.3-TIV-SWDSRV-FP0009	Software Distribution, Version 4.2.3
4.2.3-TIV-SWDGW-FP0009	Software Distribution Gateway, Version 4.2.3
4.2.3-TIV-SWDJPS-FP0009	Software Distribution Software Package Editor, Version 4.2.3
4.2.3-TIV-APM-FP0009	Activity Planner, Version 4.2.3
4.2.3-TIV-CCM-FP0009	Change Manager, Version 4.2.3
4.2.3-TIV-WEB-FP0009	Web Interface, Version 4.2.3
4.2.3-TIV-TRMSRV-FP0009	Resource Manager, Version 4.2.3
4.2.3-TIV-TRMGW-FP0009	Resource Manager Gateway, Version 4.2.3
4.2.3-TIV-PMSRV-FP0009	Pristine Manager, Version 4.2.3
4.2.3-TIV-PMG-FP0009	Patch Management, Version 4.2.3
4.2.3-TIV-DQY-FP0009	Directory Query, Version 4.2.3
4.2.3-TIV-ADICLI-FP0009	Query Directory for Microsoft Active Directory - Command Line Interface, Version 4.2.3
4.2.3-TIV-ADIENG-FP0009	Query Directory for Microsoft Active Directory, Version 4.2.3
4.2.3-TIV-TLMEXT-FP0009	CM Extension for Tivoli License Manager, Version 4.2.3
4.2.3-TIV-CMEXT-FP0009	CM Endpoint Extension, Version 4.2.3
4.2.3-TIV-TPOSD-FP0009	Tivoli Provisioning Manager for Operating System Deployment Integration, Version 4.2.3

**APARs and internal defects fixed for Inventory:** Table 7 lists the APARs that were fixed for Inventory:

*Table 7. APARs for Inventory*

Inventory, Version 4.2.3, 4.2.3-TIV-INV-FP0009 and 4.2.3-TIV-INVGW-FP0009				
IZ46768	IZ47661	IZ49535	IZ49791	IZ49856
IZ50040	IZ50748	IZ51170	IZ51313	IZ52869
IZ53428				

## APAR IZ46768

### Abstract:

Deadlocks when writing to the PRINTER table



**Error Description:**

When running big Inventory scans, deadlocks can be found in the RIM log for the printer and mouse tables.

**Additional Information:**

The printer and mouse tables are leaf tables (no computer\_sys\_id) so they can be concurrently accessed by different output threads.

**APAR IZ47661****Abstract:**

Inventory 431 malloc occurs

**Error Description:**

Inventory 431 malloc occurs when performing a compression of MIF files on the endpoint.

**APAR IZ49535****Abstract:**

Inventory scan on AIX platforms might cause malloc

**Error Description:**

Tivoli Configuration Manager 431 Inventory scan on AIX platforms might cause malloc when scanning large files systems.

**APAR IZ49791****Abstract:**

inv\_config\_ep\_meths process might hang

**Error Description:**

The Common Inventory Technology scanner wscansw might create a malformed or truncated output file named inv/SCAN/swscan.xml when the wscansw command cores.

**APAR IZ49856****Abstract:**

Log message contains misleading information when the signature catalog is not found

**Error Description:**

When the catalog of the signatures is not downloaded, the log file shows that **wscanner** tried to run but does not specify that the problem is caused by a missing catalog.

**APAR IZ50040****Abstract:**

**Set Retry/Cancel/Restrictions Option** button of **Add Scheduled Job** fails

**Error Description:**

When clicking **Set Retry/Cancel/Restrictions Option** in the **Add Scheduled Job** window, the FRWGH0041E error message is returned.

**APAR IZ50748****Abstract:**

Directory exclusion in Inventory profile does not work with CIT 2.6

**Error Description:**

Tivoli Configuration Manager provided a new Common Inventory Technology (CIT) version 2.6 in Configuration Manager version 4.2.3 Fix Pack 8. With this CIT version the directory exclusion does not work correctly.

**APAR IZ51170****Abstract:**

Incorrect number of lines after running **wqueryinv** command

**Error Description:**

Even if the "Physical Processor" table contains the correct number of entries, when performing **wqueryinv** more entries are added.

**APAR IZ51313****Abstract:**

Signature catalog should not be sent if the signature scan is not required

**Error Description:**

A signature catalog for Windows is sent to a Windows endpoint even if the Inventory profile is not configured to scan for signatures. The same issue occurs on UNIX platforms.

**APAR IZ52869****Abstract:**

Log file specified with **wsetinvglobal** must allow you to specify the permissions

**Error Description:**

You must be able to specify what the permissions are on the log file specified when running the **wsetinvglobal** command. These permissions were modified into 666 nobody:esms with APAR IZ37067 and they are now 644 again.

**Additional Information:**

To enable the fix provided, you must enable the GA\_INV\_LOG\_FILE\_CHMOD environment variable as follows:

```
run
odadmin environ get >e
edit e
and add at the bottom of the file e
GA_INV_LOG_FILE_CHMOD=TRUE

odadmin environ set <e
odadmin reexec all
```

**APAR IZ53428****Abstract:**

\$remote keyword not working if preceded by "/"

**Error Description:**

Common Inventory Technology (CIT) provides the capability to scan a remote drive if it is preceded by the \$REMOTE:: key. The Inventory server and the **wsetinvpcfiles** / **wsetinvunixfiles** commands add a / prefix to all the directory names specified in the Include Directory section. CIT cannot read this key.

The following fix applies to UNIX endpoints only:

The Tivoli Configuration Manager code has been modified, so that the "/" prefix is not added, if the "\$REMOTE" string is located at the beginning of the directory name.

**Additional Information:**

Even if the \$REMOTE prefix is correctly set, the scan against a remote drive might not work, in particular on Windows platforms, because the remote drive might not be visible to the TRAA (wlcftap) TMF user, when it invokes any command. For example, also running a simple TMF task such as:

```
ls -la N:/
```

(where N:/ is a remote resource) might not work.

**APARs and internal defects fixed for Scalable Collection Service:** The Scalable Collection Service component does not currently contain any fixed APARs.

**APARs and internal defects fixed for Software Distribution:** Table 8 lists the APARs that were fixed for Software Distribution:

*Table 8. APARs for Software Distribution*

Software Distribution, Version 4.2.3, 4.2.3-TIV-SWDSRV-FP0009				
IZ40600	IZ44083	IZ44090	IZ46966	IZ47592
IZ48549	IZ49769	IZ50171	IZ50436	IZ52163
IZ53409	IZ55417	IZ55429	IZ55464	IZ56029
IZ57803	IZ59322	IZ59502		
Software Distribution Gateway, Version 4.2.3, 4.2.3-TIV-SWDGW-FP0009				
Software Package Editor, Version 4.2.3, 4.2.3-TIV-SWDJPS-FP0009				
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-TIV-SWDEP-FP0009				

**APAR IZ40600**

**Abstract:**

Activity plan MAIL\_ID tag is not exported

**Error Description:**

When exporting an activity plan using the command line or the Activity Plan Editor, the **mail\_id** tag is not exported to the output XML file.

**APAR IZ44083**

**Abstract:**

**wimpspo** command might fail if source and target SPB files have the same path and name

**Error Description:**

When running the **wimpspo** command, the command might fail, if the software package block (.spb) files stored on the source workstation and on the target workstation have the same path and the same name.

**APAR IZ44090**

**Abstract:**

SPD\_ENG crashes when a negative value is returned by file last\_modified

**Error Description:**

The installation of a software package performed using the **wdinstsp** command ends with an error. The negative value returned from **file::last\_modified** return data is not considered as a valid value and generates the abend.

**APAR IZ46966**

**Abstract:**

**wspmvdata** command causes SPD\_ENG crash when retrieving a file

**Error Description:**

When retrieving a file from an endpoint to the HUB in your environment using the **wspmvdata** command, you receive a TRAP error.

**APAR IZ47592**

**Abstract:**

spd\_eng abends when accessing corrupted key in the registry

**Error Description:**

The spd\_eng process abends when accessing a corrupted key (HKEY\_LOCAL\_MACHINE) in the registry of a Microsoft Windows workstation.

**APAR IZ48549**

**Abstract:**

Issue with **wsecrprt** command

**Error Description:**

When using the **wsecrprt** command, for reporting purposes, using the **-p patch\_file** and **-e endpoint\_file** options, the command displays the CMYSE0004E error message, if the endpoint file contains more than 313 endpoint entries.

**APAR IZ49769**

**Abstract:**

Issue with **wstopapm -f** command

**Error Description:**

The **wstopapm** with the **-f** option does not work when you switch users from non-root to root. Using the force option the user is checked against the idmap of \$root\_user.

**APAR IZ50171**

**Abstract:**

continue\_on\_invalid\_targets setting is not working on target lists

**Error Description:**

If you set the continue\_on\_invalid\_targets option to yes, the option does not seem to work, when an endpoint is not subscribed to the profile manager where the software package is defined.

**APAR IZ50436**

**Abstract:**

The allow\_defer option allows you to postpone the operation after its deadline

**Error Description:**

When using the allow\_defer option, you can postpone a Software Distribution operation after the planned deadline.

**APAR IZ52163****Abstract:**

Wrong version in the Help -> About window of the Software Package Editor

**Error Description:**

After installing Software Package Editor and Activity Planner Editor GUIs using Tivoli\_APM\_GUI\_Fix.v4.2.3.FP08.spb, the Help -> About window displays the following wrong version:

4.2.3-TIV-APM-IF0002

even if the code level has been correctly upgraded.

**APAR IZ53409****Abstract:**

FRWGH0041E error with "Set Retry/Cancel/Restriction Options"

**Error Description:**

The following problem occurs with the framework patch 4.1.1-TMF-0104:

When distributing a software package to an endpoint using the following procedure:

1. Right-click the software package and select **Distribute**.
2. Select an endpoint to include in the distribution.
3. Click **Schedule**.
4. Type any text into **Job Label**.
5. Click **Set Retry/Cancel/Restriction Options...**

You receive the following error message:

FRWGH0041E 2/23/2009 2:33:27 PM (41): Could not find choice `29940' in List or Choice gadget `dayStartChoices'.

**APAR IZ55417****Abstract:**

wspmvdata command hangs

**Error Description:**

When retrieving a file, the Tivoli server dm\_mdistr2\_result process throws a s=11 (aix) in odstat, and loops on trying to process the same file over and over again.

**APAR IZ55429****Abstract:**

The lcf\_before script needs a new argument: the software package

**Error Description:**

The lcf\_before script now has in its parameter list also the software package name.

#### APAR IZ55464

**Abstract:**

**wsetampw** on Solaris only works with 8 characters

**Error Description:**

The **wsetampw** command performed on Solaris platforms only works with 8 characters. The problem is due to a limitation of the Solaris getapss API. With this APAR, the **wsetampw** command has been enabled to use more than 8 characters.

#### APAR IZ56029

**Abstract:**

**wdusrprf** command must handle better the missing dll libraries to avoid pop-up errors

**Error Description:**

When dll libraries are missing, the **wdusrprf** command is run on each new login and pop-up errors are displayed.

#### APAR IZ57803

**Abstract:**

**wspmvdta** command retrieves non-existent file and hangs

**Error Description:**

On SCO-UNIX endpoints, the **wspmvdta** command retrieves a non-existent file, which causes the following problem: the **spd\_eng** process hangs and the failing results are not sent back to the gateway.

#### APAR IZ59322

**Abstract:**

Repair function is not working

**Error Description:**

The installation of a software package using the repair function does not work and ends with the following error:

DISSE0459E A failure occurred when the server tried to contact the endpoint. The endpoint might be down.

#### APAR IZ59502

**Abstract:**

**REMOVE\_WIN\_REGISTRY\_KEY** must display an error when the key cannot be deleted

**Error Description:**

When trying to delete an entry in the registry using the **REMOVE\_WIN\_REGISTRY\_KEY** option, the entry is not removed if it contains a value, but no error message is displayed.

**APARs and internal defects fixed for Activity Planner:** The Activity Planner component does not currently contain any fixed APARs.

**APARs and internal defects fixed for Change Manager:** The Change Manager component does not currently contain any fixed APARs.

**APARs and internal defects fixed for the Web Interface:** The Web Interface component does not currently contain any fixed APARs.

**APARs and internal defects fixed for Tivoli Web Gateway:** The Tivoli Web Gateway component does not currently contain any fixed APARs.

**APARs and internal defects fixed for the Resource Manager:** The Resource Manager component does not currently contain any fixed APARs.

**APARs and internal defects fixed for Pristine Manager:** The Pristine Manager component does not currently contain any fixed APARs.

**APARs and internal defects fixed for Patch Management:** The Patch Management component does not currently contain any fixed APARs.

**APARs and internal defects fixed for Query Directory for Microsoft Active Directory - Command Line Interface:** The Query Directory for Microsoft Active Directory - Command Line Interface component does not currently contain any fixed APARs.

**APARs and internal defects fixed for Query Directory for Microsoft Active Directory:** The Query Directory for Microsoft Active Directory component does not currently contain any fixed APARs.

**APARs and internal defects fixed for CM Extension for Tivoli License Manager:** The CM Extension for Tivoli License Manager component does not currently contain any fixed APARs.

**APARs and internal defects fixed for CM Endpoint Extension:** The CM Endpoint Extension component does not currently contain any fixed APARs.

### Fixes contained in previous fix packs and interim fixes

The following APARS and defects were shipped in the previous fix packs and interim fixes.

*Table 9. Inventory APARs and internal defects included from 4.2.3–TCM-0001*

Inventory, Version 4.2.3, 4.2.3–INV-0001		
IY69466	IY70916	IY70604
IY71015	IY72989	IY73177
IY73657	179423	179893
180462		
Inventory Gateway, Version 4.2.3, 4.2.3–INVGW-0001		
IY63636	IY70006	IY70234
IY70308	IY70912	IY70951
IY71000	IY71001	IY71336
IY72224	IY72269	IY72860
IY72944		

*Table 10. Inventory APARs and internal defects included from 4.2.3–TCM-FP01*

Inventory, Version 4.2.3, 4.2.3–INV-FP01 and 4.2.3–INVGW-FP01		
IY71821	IY73290	IY73560
IY73562	IY73952	IY74343
IY74421	IY74693	IY74769
IY75165	IY75168	IY75169

Table 10. Inventory APARs and internal defects included from 4.2.3–TCM-FP01 (continued)

Inventory, Version 4.2.3, 4.2.3–INV-FP01 and 4.2.3–INVGW-FP01		
IY75350	IY75358	IY75611
IY75778	IY75835	IY76004
IY76150	IY76421	175653

Table 11. Inventory APARs included from 4.2.3–TCM-0002

Inventory and Inventory Gateway, Version 4.2.3, 4.2.3–INV-0006 and 4.2.3–INVGW-0006				
IY74730	IY76623	IY76692	IY76778	IY77367
IY77438	IY77522	IY77660	IY78414	IY78731
IY78778	IY78907	IY79519		

Table 12. Inventory APARs included from 4.2.3–TCM-0003

Inventory and Inventory Gateway, Version 4.2.3, 4.2.3–INV-0007 and 4.2.3–INVGW-0007				
IY79372	IY79890	IY80644	IY80837	IY80912

Table 13. Inventory APARs included from 4.2.3–TCM-FP02

Inventory, Version 4.2.3, 4.2.3–INV-FP02 and 4.2.3–INVGW-FP02				
IY77378	IY78108	IY78940	IY79236	IY79372
IY80066	IY80608	IY80625	IY80837	IY80912
IY81297	IY81359	IY81437	IY81772	IY81879
IY82061	IY82415	IY82479	IY82635	IY82964
IY83074	IY82977	IY83087	IY83181	IY83338
IY84170	IY84708	IY84735	IY84736	IY84739
IY84876	IY85317	IY85496		

Table 14. Inventory APARs and internal defects included from 4.2.3.2–TIV-TCM-IF0001

Inventory and Inventory Gateway, Version 4.2.3.2, 4.2.3.2–TIV-INV-IF0001 and 4.2.3.2–TIV-INV-INV-IF0001				
IY83381	IY85621	IY85965	IY86092	IY86229
IY86785	IY87021	IY87284	IY87805	IY88548
IY88885	IY88956	IY89009	IY89011	193723

Table 15. Inventory internal defects included from 4.2.3.2–TIV-TCM-IF0002

Inventory and Inventory Gateway, Version 4.2.3.2, 4.2.3.2–TIV-INV-IF0002 and 4.2.3.2–TIV-INV-INV-IF0002				
195918	199809			

Table 16. Inventory APARs included from 4.2.3–TIV-TCM-FP0003

Inventory, Version 4.2.3, 4.2.3–TIV-INV-FP0003 and 4.2.3–TIV-INV-INV-FP0003				
IY84371	IY86231	IY86274	IY88194	IY89503
IY89573	IY89732	IY89795	IY89973	IY90238
IY90360	IY90869	IY90993	IY91031	IY91186



Table 16. Inventory APARs included from 4.2.3.TIV-TCM-FP0003 (continued)

Inventory, Version 4.2.3, 4.2.3-TIV-INV-FP0003 and 4.2.3-TIV-INV-GW-FP0003				
IY91237	IY91440	IY91547	IY91674	IY92105
IY92128	IY92385	IY92618		

Table 17. Inventory APARs included from 4.2.3.TIV-TCM-FP0004

Inventory, Version 4.2.3, 4.2.3-TIV-INV-FP0004 and 4.2.3-TIV-INV-GW-FP0004				
IY92776	IY92969	IY93009	IY93564	IY93587
IY93613	IY93634	IY93682	IY94648	IY94698
IY95362	IY95548	IY95710		

Table 18. Inventory APARs and internal defects included from 4.2.3.TIV-TCM-FP0005

Inventory, Version 4.2.3, 4.2.3-TIV-INV-FP0005 and 4.2.3-TIV-INV-GW-FP0005				
206186	IY94770	IY97538	IY97653	IY98365
IY99251	IY99327	IY99839	IZ00054	IZ00381
IZ01609	IZ01679	IZ02233	IZ02945	IZ03006
IZ03008				

Table 19. Inventory APARs included from 4.2.3.5-TIV-TCM-IF0002

Inventory, Version 4.2.3.5, 4.2.3.5-TIV-INV-IF0002, 4.2.3.5-TIV-INV-GW-IF0002				
IZ04528	IZ05012	IZ05392	IZ07516	IZ08711
IZ08774	IZ09113	IZ09238		

Table 20. Inventory APARs included from 4.2.3.TIV-TCM-FP0006

Inventory, Version 4.2.3, 4.2.3-TIV-INV-FP0006 and 4.2.3-TIV-INV-GW-FP0006				
IZ11136	IZ12162	IZ12656	IZ12695	IZ13300
IZ14763	IZ15108	IZ15654		

Table 21. Inventory APARs included from 4.2.3.6-TIV-TCM-IF0002

Inventory, Version 4.2.3.6, 4.2.3.6-TIV-INV-IF0002, 4.2.3.6-TIV-INV-GW-IF0002				
IZ18911	IZ22316	IZ22436		

Table 22. Inventory APARs included from 4.2.3.TIV-TCM-FP0007

Inventory, Version 4.2.3, 4.2.3-TIV-INV-FP0007 and 4.2.3-TIV-INV-GW-FP0007				
IZ23708	IZ24718	IZ24727	IZ25175	IZ25610
IZ26386	IZ26896	IZ27556	IZ27826	IZ28499
IZ28875	IZ31243	IZ31863	IZ36578	IZ37067
IZ37463				

Table 23. Inventory APARs included from 4.2.3.TIV-TCM-FP0008

Inventory, Version 4.2.3, 4.2.3-TIV-INV-FP0008 and 4.2.3-TIV-INV-GW-FP0008				
IZ40935	IZ41054	IZ42283	IZ42943	IZ44261
IZ44909				

Table 24. Scalable Collection Service APARS included from 4.2.3–TCM-0001

Scalable Collection Service, Version 4.2.3, 4.2.3–CLL-0001		
IY66400	IY69816	IY70039
IY70283		

Table 25. Scalable Collection Service APARS included from 4.2.3–TCM-0002

Scalable Collection Service, Version 4.2.3 4.2.3–CLL-0002				
IY77219	IY79215	IY79225		

Table 26. Scalable Collection Service APARS included from 4.2.3–TCM-FP02

Scalable Collection Service, Version 4.2.3, 4.2.3–CLL-FP02				
IY79101	IY84553			

Table 27. Scalable Collection Service APARS included from 4.2.3.2–TIV-TCM-IF0001

Scalable Collection Service, Version 4.2.3.2, 4.2.3.2–TIV-CLL-IF0001				
IY86174	IY87041	IY87448		

Table 28. Scalable Collection Service APAR included from 4.2.3–TIV-TCM-FP0003

Scalable Collection Service, Version 4.2.3, 4.2.3–TIV-CLL-FP0003				
IY87132				

Table 29. Scalable Collection Service APARS included from 4.2.3–TIV-TCM-FP0004

Scalable Collection Service, Version 4.2.3, 4.2.3–TIV-CLL-FP0004				
IY93632	IY93681	IY94652	IY94776	

Table 30. Scalable Collection Service APARS included from 4.2.3–TIV-TCM-FP0005

Scalable Collection Service, Version 4.2.3, 4.2.3–TIV-CLL-FP0005				
IY97209	IY97613	IY97898	IY99130	IZ02945

Table 31. Software Distribution APARS and internal defects included from 4.2.3–TCM-0001

Software Distribution, Version 4.2.3, 4.2.3–SWDSRV-0001		
IY70587	IY70596	IY73905
IY71192	IY71401	IY71403
IY71443	IY71461	IY71795
IY72216	IY72454	54846
55063	55194	55275
Software Distribution Gateway, Version 4.2.3, 4.2.3–SWDGW-0001		
IY68380		
IY69280	IY70198	IY70495
IY71010	IY71192	IY71983
IY71991	IY72454	IY72698

Table 31. Software Distribution APARs and internal defects included from 4.2.3–TCM-0001 (continued)

Software Distribution, Version 4.2.3, 4.2.3–SWDSRV-0001		
IY72786	55063	55194
55275		
Software Package Editor, Version 4.2.3, 4.2.3–SWDJPS-0001		
IY67885	IY72632	
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3–SWDEP-0001		
IY68380	IY69280	IY70198
IY70495	IY71010	IY71991
IY72698	IY72490	IY72786

Table 32. Software Distribution APARs and internal defects included from 4.2.3–TCM-FP01

Software Distribution, Version 4.2.3, 4.2.3–SWDSRV-FP01		
IY73006	IY73540	IY74170
IY74230	IY74344	IY74847
IY75068	IY75474	IY75754
IY76041	IY76315	
54100	55566	55783
55828	55829	55830
55839	55877	
Software Distribution Gateway, Version 4.2.3, 4.2.3–SWDGW-FP01		
IY74170	IY74578	IY74585
IY74764	IY74801	IY75236
IY75754	IY76041	
54100	55566	55783
Software Package Editor, Version 4.2.3, 4.2.3–SWDJPS-FP01		
IY76041		
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3–SWDEP-FP01		
IY74392		

Table 33. Software Distribution APARs included from 4.2.3–TCM-0002

Software Distribution, Version 4.2.3, 4.2.3–SWDSRV-F1P1				
IY76698	IY77526	IY77936	IY78598	IY78973
Software Distribution Gateway, Version 4.2.3, 4.2.3–SWDGW-F1P1				
IY75263	IY76010	IY76694	IY77516	IY77601
IY77602	IY78195	IY78976		
Software Package Editor, Version 4.2.3, 4.2.3–SWDJPS-F1P1				
IY76008	IY77833			
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3–SWDEP-F1P1				
IY76008	IY76488	IY77508	IY77833	IY78976

Table 34. Software Distribution APARs included from 4.2.3-TCM-0003

Software Distribution, Version 4.2.3, 4.2.3-SWDSRV-F1P2				
IY79792	IY80807	IY80811		
Software Distribution Gateway, Version 4.2.3, 4.2.3-SWDGW-F1P2				
IY81773				
Software Package Editor, Version 4.2.3, 4.2.3-SWDJPS-F1P2				
None				
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-SWDEP-F1P1				
IY80762				

Table 35. Software Distribution APARs included from 4.2.3-TCM-FP02

Software Distribution, Version 4.2.3, 4.2.3-SWDSRV-FP02				
IY77018	IY77069	IY77071	IY77687	IY78897
IY79008	IY80104	IY80472	IY80616	IY80647
IY81040	IY81283	IY81596	IY81621	IY81968
IY82317	IY82563	IY82581	IY83183	IY83456
IY83758	IY85493			
Software Distribution Gateway, Version 4.2.3, 4.2.3-SWDGW-FP02				
IY75145	IY76100	IY76968	IY77261	IY77363
IY77687	IY77689	IY78072	IY79151	IY80647
IY80648	IY81144	IY81540	IY81596	IY81773
IY82317	IY82467	IY82563	IY82975	IY83339
IY83340	IY83456	IY83527	IY84105	IY85098
Software Package Editor, Version 4.2.3, 4.2.3-SWDJPS-FP02				
IY77361	IY81040			
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-SWDEP-FP02				
IY76100	IY76968	IY77261	IY77361	IY77689
IY78072	IY79151	IY80647	IY80648	IY81040
IY81144	IY82317	IY82467	IY82563	IY83456
IY83462	IY83508			

Table 36. Software Distribution APARs and internal defects included from 4.2.3.2-TIV-TCM-IF0001

Software Distribution, Version 4.2.3.2, 4.2.3.2-TIV-SWDSRV-IF0001				
IY85877	IY86951	IY88574	IY89014	
Software Distribution Gateway, Version 4.2.3.2, 4.2.3.2-TIV-SWDGW-IF0001				
IY86926	IY88089			
Software Package Editor for Endpoints, Version 4.2.3.2, 4.2.3.2-TIV-SWDEP-IF0001				
IY86926	58114			

Table 37. Software Distribution APARs and internal defects included from 4.2.3.2-TIV-TCM-IF0002

Software Distribution, Version 4.2.3.2, 4.2.3.2-TIV-SWDSRV-IF0002				
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Table 37. Software Distribution APARs and internal defects included from 4.2.3.2-TIV-TCM-IF0002 (continued)

58170	58176	58182	58186	58198
IY91469				

Table 38. Software Distribution APARs included from 4.2.3-TIV-TCM-FP0003

Software Distribution, Version 4.2.3, 4.2.3-TIV-SWDSRV-FP0003				
IY86341	IY87352	IY89298	IY89665	IY90438
IY90443	IY90445	IY90955	IY91076	IY91436
IY91469	IY92137	IY92678		
Software Distribution Gateway, Version 4.2.3, 4.2.3-TIV-SWDGW-FP0003				
IY89709	IY89761	IY90729		
Software Package Editor, Version 4.2.3, 4.2.3-TIV-SWDJPS-FP0003				
None				
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-TIV-SWDEP-FP0003				
IY86341	IY89709	IY89761	IY90147	IY90729

Table 39. Software Distribution APARs included from 4.2.3-TIV-TCM-FP0004

Software Distribution, Version 4.2.3, 4.2.3-TIV-SWDSRV-FP0004				
IY92117	IY93503	IY95003		
Software Distribution Gateway, Version 4.2.3, 4.2.3-TIV-SWDGW-FP0004				
IY92683	IY94555	IY94960	IY95411	
Software Package Editor, Version 4.2.3, 4.2.3-TIV-SWDJPS-FP0004				
None				
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-TIV-SWDEP-FP0004				
IY95411				

Table 40. Software Distribution APARs included from 4.2.3-TIV-TCM-FP0005

Software Distribution, Version 4.2.3, 4.2.3-TIV-SWDSRV-FP0005				
None				
Software Distribution Gateway, Version 4.2.3, 4.2.3-TIV-SWDGW-FP0005				
IZ00655	IZ01027	IZ01595	IZ01673	IZ04234
Software Package Editor, Version 4.2.3, 4.2.3-TIV-SWDJPS-FP0005				
IZ03869				
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-TIV-SWDEP-FP0005				
IZ01027	IZ01595	IZ01673		

Table 41. Software Distribution APARs included from 4.2.3-TIV-TCM-FP0006

Software Distribution, Version 4.2.3, 4.2.3-TIV-SWDSRV-FP0006				
None				
Software Distribution Gateway, Version 4.2.3, 4.2.3-TIV-SWDGW-FP0006				
IZ13885				
Software Package Editor, Version 4.2.3, 4.2.3-TIV-SWDJPS-FP0006				

Table 41. Software Distribution APARs included from 4.2.3-TIV-TCM-FP0006 (continued)

Software Distribution, Version 4.2.3, 4.2.3-TIV-SWDSRV-FP0006				
None				
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-TIV-SWDEP-FP0006				
IZ13885				

Table 42. Software Distribution APARs included from 4.2.3.6-TIV-TCM-IF0002

Software Distribution, Version 4.2.3.6, 4.2.3.6-TIV-SWDSRV-IF0002				
IZ20435	IZ22822	IZ24267		
Software Distribution Gateway, Version 4.2.3.6, 4.2.3.6-TIV-SWDGW-IF0002				
None				
Software Package Editor, Version 4.2.3.6, 4.2.3.6-TIV-SWDJPS-IF0002				
None				
Software Package Editor for Endpoints, Version 4.2.3.6, 4.2.3.6-TIV-SWDEP-IF0002				
None				

Table 43. Software Distribution APARs included from 4.2.3-TIV-TCM-FP0007

Software Distribution, Version 4.2.3, 4.2.3-TIV-SWDSRV-FP0007				
IZ14710	IZ23407	IZ26094	IZ26625	IZ26960
IZ28310	IZ29272	IZ29922	IZ30705	IZ31940
IZ31961	IZ35031	IZ36106	IZ36265	IZ36862
IZ37181	IZ37727			
Software Distribution Gateway, Version 4.2.3, 4.2.3-TIV-SWDGW-FP0007				
None				
Software Package Editor, Version 4.2.3, 4.2.3-TIV-SWDJPS-FP0007				
None				
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-TIV-SWDEP-FP0007				
IZ29594				

Table 44. Software Distribution APARs included from 4.2.3-TIV-TCM-FP0008

Software Distribution, Version 4.2.3, 4.2.3-TIV-SWDSRV-FP0008				
IZ39094	IZ39651	IZ40784	IZ43804	IZ43906
Software Distribution Gateway, Version 4.2.3, 4.2.3-TIV-SWDGW-FP0008				
None				
Software Package Editor, Version 4.2.3, 4.2.3-TIV-SWDJPS-FP0008				
None				
Software Package Editor for Endpoints, Version 4.2.3, 4.2.3-TIV-SWDEP-FP0008				
None				

Table 45. Activity Planner APARs and internal defects included from 4.2.3-TCM-0001

Activity Planner, Version 4.2.3, 4.2.3-APM-0001		
IY69394	IY70587	IY71064

Table 45. Activity Planner APARs and internal defects included from 4.2.3–TCM-0001 (continued)

Activity Planner, Version 4.2.3, 4.2.3–APM-0001		
IY71340	IY71810	IY71812
IY71963	IY72845	IY72998
IY73503	IY74468	IY74948
54559		

Table 46. Activity Planner APARs and internal defects included from 4.2.3–TCM-FP01

Activity Planner, Version 4.2.3, 4.2.3–APM-FP01		
IY73578	IY73642	IY74285
IY74288	IY74438	IY74754
IY74842	IY75060	IY75114
IY75608	IY75767	IY75834
IY76002	55871	

Table 47. Activity Planner APARs included from 4.2.3–TCM-0002

Activity Planner, Version 4.2.3, 4.2.3–APM-F1P1				
IY74892	IY77319	IY77688	IY77811	IY78143
IY78261	IY78280	IY78980	IY79210	

Table 48. Activity Planner APARs included from 4.2.3–TCM-0003

Activity Planner, Version 4.2.3, 4.2.3–APM-F1P2				
IY78519	IY80151			

Table 49. Activity Planner APARs included from 4.2.3–TCM-FP02

Activity Planner, Version 4.2.3, 4.2.3–APM-FP02				
IY77871	IY78730	IY79210	IY80188	IY80397
IY80844	IY81197	IY81769	IY83067	IY83772
IY83968	IY84411	IY84511	IY84627	IY84738
IY85127	IY85313			

Table 50. Activity Planner APARs included from 4.2.3.2–TIV-TCM-IF0001

Activity Planner, Version 4.2.3.2, 4.2.3.2–TIV-APM-IF0001				
IY88122	IY89499			

Table 51. Activity Planner APARs included from 4.2.3–TIV-TCM-FP0003

Activity Planner, Version 4.2.3, 4.2.3–TIV-APM-FP0003				
IY86738	IY87635	IY88552	IY89231	IY89281
IY89282	IY89667	IY90259	IY90706	IY91115

Table 52. Activity Planner APARs included from 4.2.3–TIV-TCM-FP0004

Activity Planner, Version 4.2.3, 4.2.3–TIV-APM-FP0004				
IY94022	IY94074	IY95473	IY95703	

Table 53. Activity Planner APARs and internal defects included from 4.2.3–TIV-TCM-FP0005

Activity Planner, Version 4.2.3, 4.2.3–TIV-APM-FP0005				
59151	IZ00375	IZ00420	IZ01919	IZ01947
IZ02679	IZ03032	IZ03951		

Table 54. Activity Planner APAR included from 4.2.3–TIV-TCM-FP0006

Activity Planner, Version 4.2.3, 4.2.3–TIV-APM-FP0006				
IZ09864				

Table 55. Activity Planner APARs included from 4.2.3.6–TIV-TCM-IF0002

Activity Planner, Version 4.2.3.6, 4.2.3.6–TIV-APM-IF0002				
IZ16692	IZ18922	IZ22394	IZ22456	

Table 56. Change Manager APAR included from 4.2.3–TCM-0001

Change Manager, Version 4.2.3, 4.2.3–CCM-0001		
IY64369		

Table 57. Change Manager APAR included from 4.2.3–TIV-TCM-FP0007

Change Manager, Version 4.2.3, 4.2.3–TIV-CCM-FP0007				
IZ27821				

Table 58. Web interface APARs included from 4.2.3–TCM-0001

Web Interface, Version 4.2.3, 4.2.3–WEB-0001		
IY70838	IY71394	

Table 59. Web interface internal defect included from 4.2.3–TCM-FP01

Web Interface, Version 4.2.3, 4.2.3–WEB-FP01		
55829		

Table 60. Web interface APAR included from 4.2.3–TCM-FP02

Web Interface, Version 4.2.3, 4.2.3–WEB-FP02		
IY83967		

Table 61. Web Interface APAR included from 4.2.3–TIV-TCM-FP0003

Web Interface, Version 4.2.3, 4.2.3–TIV-WEB-FP0003				
IY89223				



Table 62. Web Interface APAR included from 4.2.3–TIV-TCM-FP0005

Web Interface, Version 4.2.3, 4.2.3–TIV-WEB-FP0005				
IZ02348				

Table 63. Web Gateway APAR included from 4.2.3–TIV-TCM-FP0006

Web Gateway, Version 4.2.3, 4.2.3–TIV-WEBGW-FP0006				
IZ13733				

Table 64. Resource Manager internal defects included from 4.2.3-TCM-FP01

Resource Manager, Version 4.2.3, 4.2.3-TRMSRV-FP01		
54100	55781	

Table 65. Pristine Manager APAR included from 4.2.3-TCM-0001

Pristine Manager, Version 4.2.3, 4.2.3-PRI-0001		
IY71465		

Table 66. Patch Management internal defects included from 4.2.3-TCM-0001

Patch Management, Version 4.2.3, 4.2.3-PMG-0001		
53932	53934	54956
55130	55273	55329

Table 67. Patch Management internal defects included from 4.2.3-TCM-FP01

Patch Management, Version 4.2.3, 4.2.3–PMG-FP01		
55566	55773	55776
55783	55812	55851
55934	55938	

Table 68. Patch Management APARs included from 4.2.3.2-TIV-TCM-IF0001

Patch Management, Version 4.2.3.2, 4.2.3.2-TIV-PMG-IF0001				
IY84828	IY84889	IY86639	IY86651	IY88895

Table 69. Patch Management APARs included from 4.2.3-TCM-FP02

Patch Management, Version 4.2.3, 4.2.3-PMG-FP02				
IY84197	IY84241	IY84243	IY85839	

Table 70. Directory Query APAR included from 4.2.3–TCM-0001

Directory Query, Version 4.2.3, 4.2.3–QDY-0001				
IY82979				

Table 71. Query Directory for Microsoft Active Directory internal defects included from 4.2.3.2-TIV-TCM-IF0001

Query Directory for Microsoft Active Directory, Version 4.2.3.2, 4.2.3.2-TIV-ADIENG-IF0001 and 4.2.3.2-TIV-ADICLI-IF0001				
57898	57944	57946	57948	57995

Table 72. CM Extension for Tivoli License Manager APAR included from 4.2.3-TIV-TCM-FP0007

CM Extension for Tivoli License Manager, Version 4.2.3, 4.2.3-TIV-TLMEXT-FP0007				
IZ26684				

## Installation

This section describes how to install fix pack 9 to upgrade the various components of IBM Tivoli Configuration Manager, Version 4.2.3. The method of installation depends on the component you are upgrading. When you have installed the fix pack, you cannot uninstall it automatically. Ensure that you perform a complete backup of your system before installing this fix pack.

**Note:** After upgrading the Tivoli Resource Manager to 4.2.3, run the \$BINDIR/TRM/RegisterPervasive.sh script and the **reexec** command on the Tivoli server to display the Nokia9300 type in the Software Package Editor GUI.

This section includes the following topics:

- “Hardware and software requirements”
- “Traditional fix pack installation methods” on page 45
- “Software package block (SPB) fix pack installation for GUI components” on page 51
- “Updating the inventory schema” on page 58

## 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 Configuration Manager: Release Notes*<sup>®</sup>. For the most recent information, consult the supported platforms matrix on the IBM software support Web site: <http://www.ibm.com/software/support>.

1. From the Web site, select **Tivoli** from the **Other support sites** list.
2. When the page displays, select **IBM Tivoli Configuration Manager** from the **Choose a product** pull-down list.
3. Click the **Get The Latest Supported Platforms Matrix** link.
4. Enter your IBM registration ID and password.

### System requirements

This section details additional requirements introduced with this fix pack. Other hardware and software prerequisites are detailed in the *IBM Tivoli Configuration Manager: Release Notes*.

The following requirements are added:

#### Windows Vista

Patch 4.1.1-LCF-0042 for the Windows Vista endpoint support

### Inventory running on HP-UX 11.00

- Quality Pack For HP-UX 11.00, March 2004 (QPK1100 B.11.00.64.4)
- HSS\_26945 HP aC++ -AA runtime libraries (aCC A.03.37)

### License Management Extension space requirements

Table 73. Space requirements for the License Management Extension

Component	Space
Configuration Manager Extension for License Manager	2 MB on Managed Node
Configuration Manager Endpoint Extension	12 MB on Gateway
	3 MB on OS/400 endpoints
	1 MB on other endpoints
Tivoli License Manager agent bundle, version 2.2.0	195 MB on Gateway
	17 MB on Windows endpoints
	32 MB on AIX endpoints
	52 MB on Solaris SPARC endpoints
	26 MB on Solaris X86 endpoints
	34 MB on HP-UX endpoints
	22 MB on Linux x86 endpoints
	23 MB on Linux PPC endpoints

## Upgrading large environments

To upgrade large environments you should start installing the fix pack on the Tivoli gateways. If you cannot install the fix pack on the Tivoli server and all the gateways at the same time, to ensure that all gateways keep working, perform the following steps:

1. Install the fix pack on the Tivoli gateways.
2. Install the fix pack on the Inventory server.
3. Upgrade the Inventory database on the Inventory server.

**Note:** Until you perform step 2 and 3 of the procedure, you can only run Inventory scans on endpoints attached to the gateways, on which you have not yet installed Fix Pack 9.

## Traditional fix pack installation methods

You can install the fix pack for IBM Tivoli Configuration Manager using any of the following different installation methods:

- “Installing fix packs using ISMP” on page 46  
The InstallShield MultiPlatform (ISMP) program, which installs the appropriate IBM Tivoli Configuration Manager fix pack components for the entire Tivoli management region (Tivoli region).
- “Installing fix packs using the Tivoli desktop” on page 47  
A graphical user interface that you use to select the fix pack components to install and the target workstations on which to install them.
- “Installing fix packs using the CLI” on page 47

Tivoli Management Framework command that you use to specify the fix pack components to install and the target workstations on which to install them from the command line interface.

- “Installing fix packs using SIS” on page 49

The SIS console or SIS commands you use to specify the fix pack components to install and on which target workstations to install them.

## Installing fix packs using ISMP

The InstallShield MultiPlatform (ISMP) program provides a wizard-guided process for installing fix packs. It performs a check of the environment and installs the prerequisites, if any, to perform the upgrade process.

This installation can be used on all platforms supported as a Tivoli server, excluding Linux for S/390®. It cannot be used to install the License Management Extension or the Active Directory feature.

**Note:** Before starting the upgrade process, back up the object database on the Tivoli server.

For details about performing backup operations, see *Tivoli Management Framework: Maintenance and Troubleshooting Guide*.

To upgrade your IBM Tivoli Configuration Manager environment with the fix pack, complete the following steps:

1. Locate the setup executable and run the following command in the root directory of IBM Tivoli Configuration Manager Installation CD:
  - On Windows platforms, `setup.exe -cmpatch`
  - On all other platforms, `setup_$(INTERP).bin -cmpatch`, where `$(INTERP)` represents the operating system on which you are launching the upgrade process.
2. Accept the Software License Agreement. Click **Next**.
3. Select the `/xml` fix pack directory. Click **Next**.
4. The actions necessary to upgrade your environment are being generated. When the process completes, a panel displays the fix pack components to install. Click **Next**.
5. Select one of the following depot options:

### Query when needed

The InstallShield wizard prompts you for the location of product images. This option requires you to respond to a series of prompts during the installation process. This is the default setting.

### Verify local depot

The InstallShield wizard prompts for the directory to which you have copied the installation images. The InstallShield wizard then searches all subdirectories of this directory to verify that all images are present. If an image is not found, you are prompted to provide its location. The installation process can then run unattended.

### Remote

Select this option if images are deployed on a managed node before you start the installation.

Click **Next**.

6. In the Step List, select the steps you want to run. Change the status of steps you do not want to run immediately to Held.
7. Click **Run All** to run all steps whose status is Ready or click **Run Next** to run steps individually.

For more information about installing using ISMP, see *IBM Tivoli Configuration Manager: Planning and Installation Guide*

## Installing fix packs using the Tivoli desktop

When installing fix packs using the Tivoli desktop, the images are located in the images subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 1. The Tivoli desktop can upgrade the same product on multiple workstations sequentially.

The basic procedure for using the Tivoli desktop to upgrade a product is as follows:

1. From the Tivoli desktop, select:  
**Upgrading an existing component**  
**Install -> Install Patch**
2. Select the media and component to be upgraded or added.
3. Select the workstations where the component is to be upgraded or added.
4. Click **Install**.

For detailed information about using the Tivoli desktop to install or upgrade products, see *Tivoli Enterprise: Installation Guide*.

## Installing fix packs using the CLI

Use the **wpatch** command to install updates to existing components.

**wpatch command:** When upgrading existing components using the **wpatch** command, specify the name of the index file using the file shown in Table 74 on page 48. When using the **wpatch** command to upgrade a product, you specify the following information on the command line:

- The location of the image on the installation media.
- The name of the index file associated with the product to be upgraded.
- The workstations where the image is to be installed.

### Example:

```
wpatch -c CD-ROM/images -i index_file managed_node
```

where:

**-c CD-ROM/images**

Specifies the path to the images on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 1.

**-i index\_file**

Specifies the product installation index file to which the fix pack is installed.

*managed\_node*

Specifies the managed node on which the fix pack is installed.

If you do not specify a workstation when running the **wpatch** command, the image is installed on all managed nodes in the Tivoli region where there is a prior version of this image.

For detailed information about using the **wpatch** command, see *Tivoli Management Framework: Reference Manual*.

The following table contains a list of IND files for existing components included in this fix pack.

*Table 74. IND files included in this fix pack*

IND file	Component name	Tag
CLLFP9.IND	Scalable Collection Service, Version 4.2.3	4.2.3-TIV-CLL-FP0009
INVFP9.IND	Inventory, Version 4.2.3	4.2.3-TIV-INV-FP0009
LCFFP9.IND	Inventory Gateway, Version 4.2.3	4.2.3-TIV-INVGW-FP0009
SWDFP9.IND	Software Distribution, Version 4.2.3	4.2.3-TIV-SWDSRV-FP0009
SDGWFP9.IND	Software Distribution Gateway, Version 4.2.3	4.2.3-TIV-SWDGW-FP0009
SDJFP9.IND	Software Distribution Software Package Editor, Version 4.2.3	4.2.3-TIV-SWDJPS-FP0009
APMFP9.IND	Activity Planner, Version 4.2.3	4.2.3-TIV-APM-FP0009
CCMFP9.IND	Change Manager, Version 4.2.3	4.2.3-TIV-CCM-FP0009
WEBUIFP9.IND	Web Interface, Version 4.2.3	4.2.3-TIV-WEB-FP0009
TRMFP9.IND	Resource Manager, Version 4.2.3	4.2.3-TIV-TRMSRV-FP0009
TRMGWFP9.IND	Resource Manager Gateway, Version 4.2.3	4.2.3-TIV-TRMGW-FP0009
PMFP9.IND	Pristine Manager, Version 4.2.3	4.2.3-TIV-PMSRV-FP0009
PMGFP9.IND	Patch Management, Version 4.2.3	4.2.3-TIV-PMG-FP0009
ICOMPFP9.IND	Inventory, Version 4.2.3, backward compatibility patch	4.2.3-TIV-INV-COMP-FP0009
DQYFP9.IND	Directory Query, Version 4.2.3	4.2.3-TIV-DQY-FP0009
ADCLIFP9.IND	Query Directory for Microsoft Active Directory - Command Line Interface, Version 4.2.3	4.2.3-TIV-ADICLI-FP0009
ADENGFP9.IND	Query Directory for Microsoft Active Directory, Version 4.2.3	4.2.3-TIV-ADIENG-FP0009
TLMXTFP9.IND	CM Extension for Tivoli License Manager, Version 4.2.3	4.2.3-TIV-TLMEXT-FP0009
CMEXTFP9.IND	CM Endpoint Extension, Version 4.2.3	4.2.3-TIV-CMEXT-FP0009
TPOSDFP9.IND	Tivoli Provisioning Manager for Operating System Deployment Integration, Version 4.2.3	4.2.3-TIV-TPOSD-FP0009

## Installing fix packs using SIS

When installing fix packs using Tivoli Software Installation Service, select the fix pack component to be installed using the component name shown in Table 74 on page 48.

Tivoli Software Installation Service does not distinguish between products and fix packs. Whether the installation image is used for an installation or upgrade, Tivoli Software Installation Service refers to all installation images as products.

Tivoli Software Installation Service can install multiple products on multiple workstations in parallel. This software can install several products on several computer systems in less time than using the installation methods provided by Tivoli Management Framework.

The basic procedure for using Tivoli Software Installation Service to install products is as follows:

1. Import the product images into the Tivoli Software Installation Service depot.
2. Select the components to be installed.
3. Select the workstations where each component is to be installed.
4. Click **Install**.

For detailed information about using Tivoli Software Installation Service, see *Tivoli Enterprise: Installation Guide*.

## New components installation methods

You can install the new components for IBM Tivoli Configuration Manager using any of the following different installation methods:

- “Installing new components using the Tivoli desktop”  
A graphical user interface that you use to select the new components to install and the target workstations on which to install them.
- “Installing new components using the CLI” on page 50  
Tivoli Management Framework command that you use to specify the new components to install and the target workstations on which to install them from the command line interface.
- “Installing new components using SIS” on page 51  
The SIS console or SIS commands you use to specify the new components to install and on which target workstations to install them.

### Installing new components using the Tivoli desktop

When installing new components using the Tivoli desktop, the images are located in the NewComponents subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 1. The Tivoli desktop can upgrade the same product on multiple workstations sequentially.

The basic procedure for using the Tivoli desktop to upgrade a product is as follows:

1. From the Tivoli desktop, select:  
**Adding a new component**  
**Install->Install Product**
2. Select the media and component to be upgraded or added.
3. Select the workstations where the component is to be upgraded or added.
4. Click **Install**.

For detailed information about using the Tivoli desktop to install or upgrade products, see *Tivoli Enterprise: Installation Guide*.

## Installing new components using the CLI

Use the **winstall** command to install new components.

**winstall command:** When using the **winstall** command to install a product, you specify the following information on the command line:

- The location of the image on the installation media.
- The name of the index file associated with the product to be installed.

The following table contains a list of index files for new components included in this fix pack.

Table 75. IND files included in this fix pack

IND file	Component name	Tag
ADICLI.IND <sup>1</sup>	Query Directory for Microsoft Active Directory - Command Line Interface, Version 4.2.3	ADICli
ADIENG.IND <sup>1</sup>	Query Directory for Microsoft Active Directory, Version 4.2.3	ADIEng
TLMEXT.IND <sup>1, 2</sup>	CM Extension for Tivoli License Manager, Version 4.2.3	tlm_ext
CMEXT.IND <sup>1,2</sup>	CM Endpoint Extension, Version 4.2.3	cm_ext
TPOSD.IND	Image management services integration, Version 4.2.3	TPMforOSDeployment
<sup>1</sup> For these components, you need to install also the related patch. These patches can be found under the /images/SWD directory.		
<sup>2</sup> For information about how to implement License Compliance Manager in your Configuration Manager environments see <i>IBM Tivoli Configuration Manager License Management Extension</i> .		

- The workstations where the image is to be installed.
- The installation options.

### Example:

```
winstall -c CD-ROM/NewComponents -i index_file managed_node installation_options
```

where:

#### **-c CD-ROM/NewComponents**

Specifies the path to the images on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 1.

#### **-i index\_file**

Specifies the product installation index file.

#### **managed\_node**

Specifies the managed node on which you want to install the new component.

#### **installation\_options**

Specifies the installation options.

For detailed information about using the **winstall** command, see *Tivoli Management Framework: Reference Manual*.



## Installing new components using SIS

When installing new components using Tivoli Software Installation Service, select the component to be installed using the component name shown in Table 75 on page 50.

Tivoli Software Installation Service does not distinguish between products and fix packs. Whether the installation image is used for an installation or upgrade, Tivoli Software Installation Service refers to all installation images as products.

Tivoli Software Installation Service can install multiple products on multiple workstations in parallel. This software can install several products on several computer systems in less time than using the installation methods provided by Tivoli Management Framework.

The basic procedure for using Tivoli Software Installation Service to install products is as follows:

1. Import the product images into the Tivoli Software Installation Service depot.
2. Select the components to be installed.
3. Select the workstations where each component is to be installed.
4. Click **Install**.

For detailed information about using Tivoli Software Installation Service, see *Tivoli Enterprise: Installation Guide*.

## Software package block (SPB) fix pack installation for GUI components

To upgrade the GUI components of IBM Tivoli Configuration Manager using the SPB fix packs on endpoints or standalone workstations, use one of the following installation methods:

- “SPB Patch Installer” on page 55
- “Software Distribution server command” on page 56
- “Software Distribution disconnected command” on page 56

IBM Tivoli Configuration Manager, Version 4.2.3 GA package is a prerequisite of the SPB fix packs.

To successfully install fix packs using any of these installation methods, you must ensure that the values of the default variables specified in the software package block correspond to the existing installation on the workstation to be upgraded. If they do not correspond, ensure they are stored in the `swdis.var` file. If these values were deleted from the `swdis.var` file, you must overwrite them at fix pack installation time using the appropriate panel of the SPB Patch Installer, or using the “-D” command line option (**wdinstsp** -D variable=value GUI\_component.spb).

The default variables for each component defined in the SPB fix packs are listed in Table 76.

Table 76. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_INV_GUI_Fix.v4.2.3.FP09		
Version	4.2.3	The version of Inventory to which the SPB applies

Table 76. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
<b>Tivoli_INV_GUI_L10N_Fix.v4.2.3.FP04</b>		
Version	4.2.3	The version of Inventory to which the SPB applies
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
<b>Tivoli_APM_GUI_Fix.v4.2.3.FP09</b>		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
<b>Tivoli_APM_GUI_L10N_Fix.v4.2.3.FP04</b>		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
<b>Tivoli_CCM_GUI_Fix.v4.2.3.FP09</b>		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
<b>Tivoli_CCM_GUI_L10N_Fix.v4.2.3.FP04</b>		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
<b>Tivoli_SWDEP_AIX_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
<b>Tivoli_SWDEP_HP_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
<b>Tivoli_SWDEP_LINUX_IX86_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.

Table 76. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
<b>Tivoli_SWDEP_LINUX_S390_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
<b>Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
<b>Tivoli_SWDEP_NT_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where JRE 1.3 is installed.
<b>Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)\speditoras400	The directory where the Software Package Editor for AS/400 is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
<b>Tivoli_SWDEP_SOLARIS_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
<b>Tivoli_JRE_SOLARIS_IX86_Fix.v4.2.3.FP09</b>		
Tivoli_JRE_version	1.3.0	The version of the JRE
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
<b>Tivoli_SWDEP_SOLARIS_IX86.423</b>		
<b>Tivoli_SWDEP_SOLARIS_IX86_Fix.v4.2.3.FP09</b>		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
<b>Tivoli_SWDEP_L10N_Fix.v4.2.3.FP04</b>		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
interp	\$(INTERP)	
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
<b>Tivoli_JRE_AIX</b>		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE

Table 76. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
<b>Tivoli_JRE_HP</b>		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
<b>Tivoli_JRE_LINUX_IX86</b>		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
<b>Tivoli_JRE_LINUX_S390</b>		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
<b>Tivoli_JRE_NT</b>		
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
<b>Tivoli_JRE_SOLARIS</b>		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
<b>Tivoli_Web_Gateway_DB_Fix.v4.2.3.FP09</b>		
<b>Tivoli_Web_Gateway_L10N</b>		
WAS_CELL	CellName	Specifies the WebSphere® Application Server cell name.
AppServer	C:\Program Files\WebSphere\AppServer	Specifies where the WebSphere® Application Server home is located.
WAS_PROFILE	default	Specifies the WebSphere® Application Server profile.
DMS.Destination	C:\Program Files\TivTwg	Specifies where the Tivoli Web Gateway is installed.
<b>Tivoli_Web_Gateway_SRV_Fix.v4.2.3.FP09</b>		
WAS_CELL	CellName	Specifies the WebSphere® Application Server cell name.
LCF_LIBDIR.UNIX	\$(LCFROOT)/lib/\$(INTERP)	
CLUSTER_ENV	false	Specifies whether the cluster Tivoli Web Gateway Server is to be upgraded.
INTERP	aix4-r1	Specifies the INTERP of the Tivoli Web Gateway Server.
LCF_LIBDIR	\$(LCF_LIBDIR.\$(os_family))	The LCF_LIBDIR of the endpoint
AppServer	/opt/WebSphere/AppServer	Specifies where the WebSphere® Application Server home is located.

Table 76. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
LCF_LIBDIR.PC	\$(LCF_BINDIR)	
WAS_PROFILE	default	Specifies the WebSphere® Application Server profile.
LCFROOT	/opt/Tivoli/lcf	Specifies the LCFROOT directory for the endpoint.
LCF_DATDIR	/opt/Tivoli/lcf/dat/1	Specifies the LCFDAT directory for the endpoint.
DMS.Destination	/usr/TivTwg	Specifies where the Tivoli Web Gateway is installed.
LCF_BINDIR	\$(LCFROOT)/bin/\$(INTERP)/mrt	Specifies the LCFBINDIR directory for the endpoint.
<b>Tivoli_WebUI_Fix.v4.2.3.FP09</b>		
<b>Tivoli_WebUI_L10N</b>		
WAS_CELL	CellName	Specifies the WebSphere® Application Server cell name.
AppServer	/opt/WebSphere/AppServer	Specifies where the WebSphere® Application Server home is located.
WAS_PROFILE	default	Specifies the WebSphere® Application Server profile.
WebSrvDoc	/opt/IBMHttpServer/htdocs/en_US	Specifies the directory for the Web Server documentation.

**Note:** When you install the fix pack, if you are using the APM or CCM GUI components, you should also install the remote desktops at the same fix pack level.

## SPB Patch Installer

This installation method uses ISMP technology that you can use to install fix packs on an endpoint or standalone workstation to upgrade IBM Tivoli Configuration Manager, Version 4.2.3 GUI components. The SPB Patch Installer is supported on Microsoft Windows, IBM AIX, Solaris Operating Environment, Linux for Intel®, and HP-UX.

The following is a summary of the upgrade process using the SPB Patch Installer. Refer to the *SPB Patch Installer Guide* located in the spb\_installer directory on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 2 for complete instructions about using this tool.

To install the SPB fix packs using the SPB Patch Installer, perform the following steps:

1. Insert the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 2.
2. Locate and run the setup program located in the spb\_installer directory.
  - On Windows, run the setup.exe file.
  - On all other platforms, run the setup\_\$(interp).bin.
3. Read the Welcome panel and click **Next**.

4. Specify the CM423\_SPB\_FP09.xml file for the fix pack located in the /package subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 2. Click **Next**.
5. Select **Apply** and click **Next**.
6. Specify the components you want to install and click **Next**.
7. Clear the selection of the components for which you do not want to install in undoable mode. Click **Next**.
8. You might be prompted to specify the value of some variables defined in the SPB. Ensure that they are consistent with the existing installation on the workstation to be upgraded.
9. A Summary panel is displayed. Click **Next**.
10. The upgrade process starts.

### Software Distribution server command

To use this type of installation, your Tivoli environment must contain an installation of the Software Distribution Server component, the Software Distribution Gateway component, and at least a Tivoli endpoint. The following steps must be performed to apply the SPB fix pack on the targets:

1. Create a new Profile in a Profile Manager, using the naming convention described in Table 77.
2. Import the SPB file provided into the new Profile.
3. Select the endpoints to which you want to distribute the fix pack.
4. Submit the installation using either the command line or the Tivoli desktop.

If you need to overwrite the values of the default variables, use the "-D" option (winstsp -D variable=value GUI\_component.spb) from the command line, or the Default Variables panel from the Tivoli desktop.

### Software Distribution disconnected command

To use this type of installation, you must have the Software Distribution Software Package Editor component installed on the endpoint. If you need to overwrite the values of the default variables, use the "-D" option (wdinstsp -D variable=value GUI\_component.spb) from the command line.

### Software package block fix packs

Table 77 contains the names of the fix pack 9 software package blocks and the names of the software profiles that must be used when using SPBs to install components. IBM Tivoli Configuration Manager, Version 4.2.3 GA SPBs are a prerequisite of the fix pack SPBs.

Table 77. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_INV_GUI_Fix.v4.2.3.FP09.spb	Tivoli_INV_GUI_Fix.v4.2.3.FP09
Tivoli_INV_GUI_L10N_Fix.v4.2.3.FP04.spb	Tivoli_INV_GUI_L10N_Fix.v4.2.3.FP04
Tivoli_APM_GUI_Fix.v4.2.3.FP09.spb	Tivoli_APM_GUI_Fix.v4.2.3.FP09
Tivoli_APM_GUI_L10N_Fix.v4.2.3.FP04.spb	Tivoli_APM_GUI_L10N_Fix.v4.2.3.FP04
Tivoli_CCM_GUI_Fix.v4.2.3.FP09.spb	Tivoli_CCM_GUI_Fix.v4.2.3.FP09
Tivoli_CCM_GUI_L10N_Fix.v4.2.3.FP04.spb	Tivoli_CCM_GUI_L10N_Fix.v4.2.3.FP04
Tivoli_SWDEP_AIX_Fix.v4.2.3.FP09.spb	Tivoli_SWDEP_AIX_Fix.v4.2.3.FP09
Tivoli_SWDEP_HP_Fix.v4.2.3.FP09.spb	Tivoli_SWDEP_HP_Fix.v4.2.3.FP09
Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP09.spb	Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP09

Table 77. Names of SPB files and software profiles (continued)

SPB Files	Package name with Version
Tivoli_SWDEP_LINUX_IX86_Fix.v4.2.3.FP09.spb	Tivoli_SWDEP_LINUX_IX86_Fix.v4.2.3.FP09
Tivoli_SWDEP_LINUX_S390_Fix.v4.2.3.FP09.spb	Tivoli_SWDEP_LINUX_S390_Fix.v4.2.3.FP09
Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP09.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP09
Tivoli_SWDEP_NT_Fix.v4.2.3.FP09.spb	Tivoli_SWDEP_NT_Fix.v4.2.3.FP09
Tivoli_SWDEP_SOLARIS_Fix.v4.2.3.FP09.spb	Tivoli_SWDEP_SOLARIS_Fix.v4.2.3.FP09
Tivoli_JRE_SOLARIS_IX86.spb	Tivoli_JRE_SOLARIS_IX86
Tivoli_SWDEP_SOLARIS_IX86.spb	Tivoli_SWDEP_SOLARIS_IX86
Tivoli_SWDEP_SOLARIS_IX86_Fix.v4.2.3.FP09.spb <sup>(1)</sup>	Tivoli_SWDEP_SOLARIS_IX86_Fix.v4.2.3.FP09
Tivoli_SWDEP_L10N_Fix.v4.2.3.FP04.spb	Tivoli_SWDEP_L10N_Fix.v4.2.3.FP04
Tivoli_JRE_AIX.spb <sup>(2)</sup>	Tivoli_JRE_AIX
Tivoli_JRE_HP.spb <sup>(2)</sup>	Tivoli_JRE_HP
Tivoli_JRE_LINUX_IX86.spb <sup>(2)</sup>	Tivoli_JRE_LINUX_IX86
Tivoli_JRE_LINUX_S390.spb <sup>(2)</sup>	Tivoli_JRE_LINUX_S390
Tivoli_JRE_NT.spb <sup>(2)</sup>	Tivoli_JRE_NT
Tivoli_JRE_SOLARIS.spb <sup>(2)</sup>	Tivoli_JRE_SOLARIS
Tivoli_Web_Gateway_DB_Fix.v4.2.3.FP09.spb <sup>(2)</sup>	Tivoli_Web_Gateway_DB_Fix.v4.2.3.FP09
Tivoli_Web_Gateway_L10N.spb <sup>(2)</sup>	Tivoli_Web_Gateway_L10N
Tivoli_Web_Gateway_SRV_Fix.v4.2.3.FP09.spb <sup>(2)</sup>	Tivoli_Web_Gateway_SRV_Fix.v4.2.3.FP09
Tivoli_WebUI_Fix.v4.2.3.FP09.spb <sup>(2)</sup>	Tivoli_WebUI_Fix.v4.2.3.FP09
Tivoli_WebUI_L10N.spb <sup>(2)</sup>	Tivoli_WebUI_L10N

**Notes:**

1. <sup>(1)</sup> If you are installing the Software Package Editor component for Solaris on x86, using the Software Distribution command line, you need to install the following prerequisite packages first:
  - a. Tivoli\_JRE\_SOLARIS\_IX86.spb. This package is a prerequisite for installing the Software Package Editor GUI on Solaris 8 and Solaris 9.
  - b. Tivoli\_SWDEP\_SOLARIS\_IX86.spb. This is an empty package used to update the local catalog in accordance with the adopted SPB naming convention on Solaris 8, 9, and 10.

If you are installing the SPB components via SPB\_patch\_installer, the prerequisite packages are automatically installed.

2. <sup>(2)</sup> Install these software package blocks you find under the /package path to enable the Daylight Saving Time (DST) feature. It is not mandatory to perform this installation. If you do not install these software package blocks, the time stamp of log and trace files is not at Daylight Saving Time used by the following countries:
  - United States
  - Canada
  - Brazil
  - Bermuda
  - Western Australia

## Updating the inventory schema

When you install a new fix pack, you must update the Inventory schema.

A fix pack does not necessarily contain fixes on SQL scripts and, if present, these fixes do not necessarily apply to all database vendors.

Table 78 lists the SQL scripts, released with the different fix packs, to run for updating the **Inventory schema**:

*Table 78. SQL scripts for updating the Inventory schema*

	Oracle	DB2	MSSQL	Sybase	Informix	DB2 MVS	DB2 MVS custom
inv_db_423_FP01.sql	X	X	X	X	X	X	X
inv_db_423_FP02.sql	X	X	X	X	X	X	X
inv_db_423_FP03.sql	X	X	X	X	X	X	X
inv_db_423_FP04.sql	X	X	X	X	X	X	X
inv_db_423_FP05.sql	X	X	X	X	X	X	X
inv_db_423_FP06.sql	X	X	X	X	X	X	X
inv_db_423_FP07.sql	X	X	X	X	X	X	X
inv_db_423_FP08.sql	X	X	X	X	X	X	X
inv_db_423_FP09.sql	X	X	X	X	X	X	X

Table 79 lists the SQL scripts, released with the different fix packs, to run for updating the **Historical Inventory schema**:

*Table 79. SQL scripts for updating the Historical Inventory schema*

	Oracle	DB2	MSSQL	Sybase	Informix	DB2 MVS	DB2 MVS custom
h_inv_db_423_FP01.sql	X	X	X	X	X	X	X
h_inv_db_423_FP02.sql	X	X	X	X	X	X	X
h_inv_db_423_FP03.sql	X	X	X	X	X	X	X
h_inv_db_423_FP04.sql	X	X	X	X	X	X	X
h_inv_db_423_FP05.sql	X	X	X	X	X	X	X
h_inv_db_423_FP06.sql	X	X	X	X	X	X	X
h_inv_db_423_FP07.sql	X	X	X	X	X	X	X
h_inv_db_423_FP08.sql	X	X	X	X	X	X	X
h_inv_db_423_FP09.sql	X	X	X	X	X	X	X

Copy the appropriate schema scripts to any system where SQL access is available (such as the database server or the database client workstation if the client allows SQL connectivity) to run the schema scripts. If you have already installed and configured the previous fix packs, you do not need to run the *inv\_db\_vendor\_423\_FP0x.sql* and *h\_inv\_db\_vendor\_423\_FP0x.sql* (where  $x = 1, 2, 3, 4, 5, 6, 7$ , or  $8$ ) scripts again.



**Notes:**

1. Error or information messages might be displayed when running the database scripts. Each database has unique behavior, so some messages can be expected.
2. The `inv_db2_mvs_custom_*.sql` script might contain some customizable variables such as:
  - `XX_OWNER`
  - `XX_STOGRP`
  - `XX_DBNAME`

Whose description can be found inside the `inv_db2_mvs_admin.sql` script.

For instance, if you use DB2 and install this fix pack, to update the Inventory schema, refer to the **DB2** column of Table 78 on page 58 and run the scripts identified in the table rows by **X** in the order specified:

- `inv_db2_423_FP01.sql`
- `h_inv_db2_423_FP01.sql`
- `inv_db2_423_FP02.sql`
- `h_inv_db2_423_FP02.sql`
- `inv_db2_423_FP03.sql`
- `h_inv_db2_423_FP03.sql`
- `inv_db2_423_FP04.sql`
- `h_inv_db2_423_FP04.sql`
- `inv_db2_423_FP05.sql`
- `h_inv_db2_423_FP05.sql`
- `inv_db2_423_FP06.sql`
- `h_inv_db2_423_FP06.sql`
- `inv_db2_423_FP07.sql`
- `h_inv_db2_423_FP07.sql`
- `inv_db2_423_FP08.sql`
- `h_inv_db2_423_FP08.sql`
- `inv_db2_423_FP09.sql`
- `h_inv_db2_423_FP09.sql`

If you already ran one of these scripts because you already installed the related fix pack, you do not need to run it again.

## Upgrading from a Configuration Manager 4.2.2 environment

Run the following steps if you want to migrate from a Tivoli Configuration Manager Version 4.2.2 to a Tivoli Configuration Manager Version 4.2.3 environment:

1. Download the latest Tivoli Configuration Manager 4.2.2 fix pack.
2. Run all the `%inv%423_FP0%.sql` scripts available for your *dbvendor*, where *dbvendor* is the shortname for the database. If you have already installed and configured the previous fix packs, you do not need to run the related scripts again.

For instance, if you are at Tivoli Configuration Manager Version 4.2.2 fix pack 2 level, and you download Tivoli Configuration Manager Version 4.2.2 fix pack 6, you need to run the following scripts:

- `dbvendor%422_FP03.sql`

- *dbvendor%422\_FP04.sql*
  - *dbvendor%422\_FP05.sql*
  - *dbvendor%422\_FP06.sql*
3. Download the latest Tivoli Configuration Manager 4.2.3 fix pack.  
  
**Note:** You must download the latest fix pack because it contains the refreshed *%inv%upgrade\_422\_423.sql* and *%inv%423\_FP0%.sql* scripts.
  4. Run the *%inv%upgrade\_422\_423.sql* script which was installed when downloading the Tivoli Configuration Manager 4.2.3 fix pack depending on your *dbvendor*.
  5. Edit the appropriate *dbvendor%inv%423\_FP0%.sql* script and search for the 422\_423 string. If the string is found, follow carefully the instructions.
  6. Run all *%inv%423\_FP0y.sql* scripts, where *y* is the Tivoli Configuration Manager 4.2.3 fix pack level you have downloaded.  
 For example, if you have downloaded Tivoli Configuration Manager Version 4.2.3 fix pack 9, you need to run the following scripts:
    - *dbvendor%423\_FP01.sql*
    - *dbvendor%423\_FP02.sql*
    - *dbvendor%423\_FP03.sql*
    - *dbvendor%423\_FP04.sql*
    - *dbvendor%423\_FP05.sql*
    - *dbvendor%423\_FP06.sql*
    - *dbvendor%423\_FP07.sql*
    - *dbvendor%423\_FP08.sql*
    - *dbvendor%423\_FP09.sql*

## Updating the inventory queries

This fix pack installation provides scripts to update inventory queries with the new database information introduced by the fix pack. The scripts *inventory\_query.sh* and *h\_inventory\_query.sh* are located on the managed nodes where the patch is installed, in the following directory:

`$BINDIR/../../generic/inv/SCRIPTS/QUERIES`

## Updating the Inventory signatures and packages

If you have not already run the command *winvmigrate* to migrate Configuration Manager signatures from the old SWSIGS.INI format to the new IBM software catalog format, or if you imported the IBM software catalog before installing Configuration Manager 4.2.3 Fix Pack 9, then you must migrate the signatures belonging to the IBM software catalog. To do this, after upgrading the inventory schema as described in “Updating the inventory schema” on page 58, perform the following steps:

1. Download the latest IBM software catalog file from the following Web site:  
<http://www-306.ibm.com/software/sysmgmt/products/support/IBMTivoliLicenseManager.html>
2. Run the following command:  

```
winvmigrate -c IBM_software_catalog_file
```

If you plan to implement license management facilities in your Configuration Manager environment, refer to the *IBM Tivoli Configuration Manager: License Management with License Compliance Manager version 2.3*.

## Creating the Active Directory schema

The admin and the schema scripts used by Query Directory for Microsoft Active Directory are located on IBM Tivoli Configuration Manager Installation, Version 4.2.3 in the \$BINDIR/TME/ADI/SCRIPTS directory. The names of these scripts are

- `adi_dbvendor_admin.sql`
- `adi_dbvendor_schema.sql`

where:

*dbvendor*

Is the short name for the database.

The first script creates the container for all the logical objects (users, views, and so forth) and creates the tablespace that stores all the physical data in the tables, while the second one creates the tables and views in the allocated tablespace.

Copy the appropriate admin and schema scripts to any system where SQL access is available (such as the database server or the database client workstation if the client allows for SQL connectivity) to run these scripts. For additional details see *Guide for Active Directory integration*.

## Upgrading plug-ins

To upgrade plug-ins, you need to run the upgrade scripts.

### Activity Planner

If you have installed 4.2.3-TIV-APM-FP0009, 4.2.3-TIV-SWDSRV-FP0009, and 4.2.3-TIV-INV-FP0009 run the following scripts located in the \$BINDIR/TME/APM/SCRIPTS directory. You need the APM\_Admin Tivoli region authorization role to run them.

- `sh reg_swd_plugin.sh -r`
- `sh reg_inv_plugin.sh -r`
- `sh reg_tl_plugin.sh -r`

The first script enables the Activity Planner for Software Distribution, the second script enables the Activity Planner for Inventory, while the third script enables the Activity Planner for the Task Library. Run the **wstopapm** and **wstartapm** commands, after running the scripts.

### Change Manager

If you have installed 4.2.3-TIV-CCM-FP0009, 4.2.3-TIV-SWDSRV-FP0009, and 4.2.3-TIV-INV-FP0009 run the following scripts located in the \$BINDIR/TME/CCM/SCRIPTS directory. You need the CCM\_Admin Tivoli region authorization role to run them.

- `sh reg_swd_plugin.sh -r`
- `sh reg_invscan_plugin.sh -r`

## Installing the Web Gateway component

The Tivoli Web Gateway component is responsible for providing support for Nokia S60 devices. Because this component requires newer versions of DB2 UDB and WebSphere Application Server, it is provided as a fresh installation and not as a patch to be installed on previous levels. A procedure for migrating data from the old to the new Tivoli Web Gateway environment is provided.

The InstallShield program for this component is available on the on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 3 under the /twg\_installer directory.

In addition to installing the 4.2.3-TIV-TCM-FP0009\_twg\_installer.tar, also install the following software package blocks located in the /package directory:

- Tivoli\_Web\_Gateway\_DB\_Fix.v4.2.3.FP09.spb
- Tivoli\_Web\_Gateway\_SRV\_Fix.v4.2.3.FP09.spb
- Tivoli\_WebUI\_Fix.v4.2.3.FP09.spb

This procedure ensures that you install all the required fixes.

For more details on the Web Gateway prerequisites, installation and data migration refer to the *IBM Tivoli Configuration Manager: Planning and Installation Guide*.

---

## Implementing the concurrent login feature

This section explains how to install, configure, and use the concurrent login feature to prevent the end user from logging in to the workstation during critical distributions.

If you have already installed and configured the login feature with the 4.2.3-TCM-0001 interim fix or later, you do not need to perform the steps described below.

### Installing the concurrent login feature

Before you can install this feature, you must have installed Software Distribution and Activity Planner, as described in *IBM Tivoli Configuration Manager: Planning and Installation Guide*.

The **4.1.1-TMF-004** Tivoli Framework fix or later must also be installed on the Tivoli server and gateways.

To install the concurrent login feature, perform the following steps:

1. Install the **4.2.3-TIV-SWDSRV-FP0009** Software Distribution fix pack to update the Software Distribution command line and GUI.
2. Install the **4.2.3-TIV-SWDGW-FP0009** Software Distribution gateway fix pack to update Windows endpoints at the next distribution.
3. Install the **4.2.3-TIV-APM-FP0009** Activity Planner fix pack to update the Activity Planner GUI.
4. Upgrade the Activity Planner plug-ins, as described in “Upgrading plug-ins” on page 61.
5. Distribute the **Tivoli\_login\_control\_4.2.3.spb** software package to the endpoints.
6. Type the following command to enable the feature on the specified endpoint:  
`wep endpoint_name set allow_distribution_control on`

where:

*endpoint\_name*

Is the name of the endpoint where the feature is to be enabled.

Repeat the command for each endpoint where the feature is to be enabled.

7. Download the wdepccm.exe file from the /LoginControl folder to the endpoints.

## Configuring the concurrent login feature

After installing the concurrent login feature as described in “Installing the concurrent login feature” on page 62, you can configure the registry keys created on the endpoints with the **Tivoli\_login\_control\_4.2.3.spb** software package.

The registry keys are created in the following locations within the Registry Editor:

- HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification
- HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification\upcall
- HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification\wmansd

To view and edit the registry keys, use the **wdepccm** command. For more information on this command, see “wdepccm” on page 67.

The following is a list of all the registry keys created on the endpoints:

### Keys located in HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification

#### IsEnabled

Specifies whether the concurrent login feature is enabled. Supported values are **1**, which means that the feature is enabled, and **0**, which means that the feature is disabled. The default value is **1**.

#### TraceLevel

Specifies the tracing level. Supported values are as follows:

- 0** Traces are disabled. This is the default value.
- 1** Standard tracing is enabled.
- 2** Verbose tracing is enabled.

#### TracePath

Specifies the full path and name of the trace files. The default value is: \$(system\_drive)\SWDnotification.log.

#### DenyPopupEnabled

Specifies whether a message must be displayed on the endpoint to notify the user that login is temporarily disabled. Supported values are **1**, which means that the dialog is displayed, and **0** which means that the dialog is not displayed. The default value is **1**.

#### PopUpTimeout

Specifies how many seconds the message must be displayed on the endpoint if you set the **DenyPopupEnabled** key to **1**. The default value is **10**.

#### LoginDeniedTitle

Defines the title of the dialog box displayed on the endpoint if you set the **DenyPopupEnabled** key to **1**. The default value is SWDNotification.

#### LoginDeniedMsg

Defines the text contained in the dialog box displayed on the endpoint if you set the **DenyPopupEnabled** key to **1**. When customizing the message, you can use the \r\n symbols for inserting a carriage return. The default value is: "Distribution in progress\r\nLogon temporarily disabled."

**DenyLogonOnPauseError**

Specifies whether the user can be allowed to log in to the workstation if an error occurs during an attempt to pause the distribution. Supported values are **1**, which means the user is not allowed to log in, and **0**, which means the user is allowed to log in. The default value is **1**.

**LoginDeniedMsgOnPauseError**

Defines the text contained in the dialog box displayed on the endpoint if the distribution cannot be paused and you set the **DenyLogonOnPauseError** key to **1**. When customizing the message, you can use the `\r\n` symbols for inserting a carriage return and the `$(DIST_ID)` variable which is replaced at run time with the distribution ID. The default value is: "The pause failed for distribution `$(DIST_ID)`\r\nContact system administrator."

**SwitchPopupDesktop**

Specifies whether the message displayed on the endpoint if you set the **DenyPopupEnabled** key to **1**, must be shown on a new Windows desktop. Supported values are **0**, which means the default Windows desktop is used, and **1**, which means a new Windows desktop is used. The default value is **1**.

**LogoffType**

Specifies which type of logoff must be performed. Supported values are as follows

- 0**       Performs a standard logoff. This is the default value.
- 1**       Performs a forced logoff ending all active processes.
- 2**       Performs a logoff ending active and hung processes.

**DefaultShutdownAllowdBeforeReset**

Defines the number of shutdown operations after which the user is allowed to log in again. This key prevents the user from being irrecoverably logged out of the workstation. The default value is **20**.

**CompletionPopupEnabled**

Specifies whether a message is displayed on the endpoint to notify the user that the last distribution has completed and login is allowed. Supported values are **0**, which means the message is not displayed, and **1**, which means the message is displayed.

**CompletionProgramPath**

Specifies the path to the application that manages the message to be displayed if you set the **CompletionPopupEnabled** to **1**. Use this key if you modified the path where `wcompmsg.exe` is installed or if you want to use a different application for managing the message.

**CompletionPopupTitle**

Defines the title of the dialog box displayed on the endpoint if you set the **CompletionPopupEnabled** key to **1**. The default value is `SWDNotification`.

**CompletionPopupMsg**

Defines the text contained in the dialog box displayed on the endpoint if you set the **CompletionPopupEnabled** key to **1**. When customizing the message, you can use the `\n` symbol for inserting a carriage return. The default value is: "Distribution complete\nLogon is now permitted."

**ShutdownPopupEnabled**

Specifies whether a message is displayed when you attempt to perform a shutdown during a distribution for which the shutdown has been disabled.

You must choose between performing a logoff immediately, performing a restart immediately, or performing a logoff immediately and subsequently a shutdown when the last distribution completes. See also `LogoffShutdownString`. Supported values are **0**, which means the message is not displayed, and **1**, which means the message is displayed. The default value is **1**.

#### **ShutdownPopupMsg**

Defines the text contained in the dialog box displayed on the endpoint if you set the **ShutdownPopupEnabled** key to **1**. When customizing the message, you can use the `\n` symbol for inserting a carriage return. The default value is: "The machine will shutdown when the distribution completes."

**Keys located in HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification\upcall**

#### **LCF\_BINDIR**

Is the fully qualified path to the LCF\_BINDIR.

#### **LCF\_CACHEDIR**

Is the fully qualified path to the LCF\_CACHEDIR.

#### **LCF\_DATDIR**

Is the fully qualified path to the LCF\_DATDIR.

#### **UpcallProgram**

Is the fully qualified path to the application which communicates with the gateway.

#### **UpcallTimeout**

Specifies the timeout in seconds for communicating with the gateway. The default value is **120** seconds.

**Keys located in HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification\wmansd**

**Title** Defines the title of the dialog box displayed on the endpoint if you set the **ShutdownPopupEnabled** key to **1** and the user attempts to perform a shutdown during a distribution for which the shutdown has been disabled. The default value is `SWDNotification`.

#### **Message**

Defines the message contained in the dialog box displayed on the endpoint if you set the **ShutdownPopupEnabled** key to **1** and the user attempts to perform a shutdown during a distribution for which the shutdown has been disabled. When customizing the message, you can use the `\n` symbol for inserting a carriage return. The default value is: "Please choose one of the following."

#### **Timeout**

Specifies a timeout in seconds for choosing between a logoff, a restart, and a logoff and shutdown. If you set the timeout to **0**, the message is not displayed and the default action is performed. Otherwise, the default action is performed after the timeout expires. For more information on the default action, see `DefaultAction`. The default value is **0**.

#### **LogoffString**

Defines the first option displayed in the message to request whether a logoff should be performed. If you select this option, a logoff is performed immediately. The default value is "Logoff".



**LogoffShutdownString**

Defines the second option displayed in the message to request whether a logoff and a shutdown should be performed. If you select this option, a logoff is performed immediately and a shutdown is performed when the last distribution completes. The default value is "Logoff and shutdown when complete".

**RestartString**

Defines the third option displayed in the shutdown message to request whether a restart should be performed. If you select this option, a restart is performed immediately. The default value is "Restart".

**DefaultAction**

Specifies the default action to be performed when the timeout expires or is set to 0. Supported values are as follows:

- 1 Performs a logoff immediately.
- 2 Performs a logoff immediately and a shutdown when the last distribution completes. This is the default value.
- 3 Performs a restart immediately.

**LeftLogonPopupEnabled**

Specifies whether a message must be displayed on the endpoint listing the number of logins allowed on the workstation. You can define this key when limited logins are allowed during the distribution. If an error occurs and the distribution cannot be paused, the message is not displayed. Supported values are 0, which means the message is not displayed, and 1, which means the message is displayed. The default value is 1.

**LeftLogonPopupMsg**

Defines the message contained in the dialog box displayed on the endpoint if you set the **LeftLogonPopupEnabled** key to 1. When customizing the message, you can use the \n symbol for inserting a carriage return and the \$(LEFT\_LOGON) variable which is replaced at run time with the number of allowed logins. The default value is: "The current distribution has been paused\nYou can logon \$(LEFT\_LOGON) times."



## wdepccem

Displays and configures the registry keys created when the concurrent login feature is installed on the endpoint. It can also unlock a workstation that has been locked by mistake.

**Syntax:** `wdepccem [-r | -g property | -s property]`

### Options:

**-r**           Unlocks a workstation that has been locked by mistake.

**-g *property***  
              Displays the setting defined for the specified registry key.

**-s *property***  
              Defines a setting for the specified registry key, as follows:

**-e [true | false]**  
              Specifies whether the concurrent login feature is enabled.  
              Supported values are **true**, which means that the feature is enabled, and **false**, which means that the feature is disabled. The default value is **true**.

**-p [true | false]**  
              Specifies whether a message must be displayed on the endpoint to notify the user that login is temporarily disabled. Supported values are **true**, which means that the dialog is displayed, and **false** which means that the dialog is not displayed. The default value is **true**.

**-t *timeout***  
              Specifies how many seconds the message must be displayed on the endpoint if you set the **-p** option to **true**. The default value is **10**.

**-l *popup\_title***  
              Defines the title of the dialog box displayed on the endpoint if you set the **-p** option to **true**. The default value is SWDNotification.

**-L *popup\_msg***  
              Defines the text contained in the dialog box displayed on the endpoint if you set the **-p** option to **true**. The default value is:  
              "Distribution in progress\r\nLogon temporarily disabled."

**-m [true | false]**  
              Specifies whether the user can be allowed to log in to the workstation if an error occurs during an attempt to pause the distribution. Supported values are **true**, which means the user is not allowed to log in, and **false**, which means the user is allowed to log in. The default value is **true**.

**-M *popup\_msg***  
              Defines the text contained in the dialog box displayed on the endpoint if the distribution cannot be paused and you set the **-m** option to **true**. When customizing the message, you can use the \r\n symbols for inserting a carriage return and the \$(DIST\_ID) variable which is replaced at run time with the distribution ID. The default value is: "The pause failed for distribution \$(DIST\_ID)\r\nContact the system administrator."

**-x *level***   Specifies the tracing level. Supported values are as follows:

**0**           Traces are disabled. This is the default value.

- 1        Standard tracing is enabled.
  - 2        Verbose tracing is enabled.
- y** *pathname*  
Specifies the full path and name of the trace files. The default value is: \$(system\_drive)\SWDnotification.log.
- s** [**true** | **false**]  
Specifies whether the message displayed on the endpoint if you set the **-p** option to **true**, must be shown on a new Windows desktop. Supported values are **true**, which means a new Windows desktop is used, and **false**, which means the default desktop is used. The default value is **true**.
- d** *max\_shutdowns*  
Defines the number of shutdown operations after which the user is allowed to log in again. This key prevents the user from being irrecoverably logged out of the workstation. The default value is 20.
- o** [0 | 1 | 2]  
Specifies which type of logoff must be performed. Supported values are as follows:
- 0        Performs a standard logoff. This is the default value.
  - 1        Performs a forced logoff ending all active processes.
  - 2        Performs a logoff ending also hung processes.
- c** [**true** | **false**]  
Specifies whether a message is displayed on the endpoint to notify the user that the last distribution has completed and log in is allowed. Supported values are **true**, which means the message is displayed, and **false**, which means the message is not displayed. The default value is **true**.
- b** *pathname*  
Specifies the path to the application that manages the message to be displayed if you set the **-c** option to **true**. Use this key if you modified the path where wcompmsg.exe is installed or if you want to use a different application for managing the message.
- u** *popup\_title*  
Defines the title of the dialog box displayed on the endpoint if you set the **-c** option to **true**. The default value is SWDNotification.
- v** *popup\_msg*  
Defines the text contained in the dialog box displayed on the endpoint if you set the **-c** option to **true**. When customizing the message, you can use the \r\n symbols for inserting a carriage return. The default value is: "Distribution complete\nLogon is now permitted."
- w** [**true** | **false**]  
Specifies whether a message is displayed when you attempt to perform a shutdown during a distribution for which the shutdown has been disabled. You must choose between performing a logoff immediately, performing a restart immediately, or performing a logoff immediately and subsequently a shutdown when the last distribution completes. See also the -H option. Supported values

are **true**, which means the message is displayed, and **false**, which means the message is not displayed. The default value is **true**.

**-z** *shut\_popup\_msg*

Defines the text contained in the dialog box displayed on the endpoint if you set the **-w** option to **true**. When customizing the message, you can use the \n symbol for inserting a carriage return. The default value is: "The machine will shut down when the last distribution completes."

**-B** *pathname*

Specifies the fully qualified path to the LCF\_BINDIR.

**-C** *pathname*

Specifies the fully qualified path to the LCF\_CACHEDIR.

**-D** *pathname*

Specifies the fully qualified path to the LCF\_DATDIR.

**-U** *pathname*

Specifies the fully qualified path to the application which communicates with the gateway.

**-W** *timeout*

Specifies the timeout in seconds for communicating with the gateway. The default value is **120** seconds.

**-E** *popup\_title*

Defines the title of the dialog box displayed on the endpoint if you set the **-w** option to **true** and the user attempts to perform a shutdown during a distribution for which shutdown has been disabled. The default value is SWDNotification.

**-F** *popup\_msg*

Defines the message contained in the dialog box displayed on the endpoint if you set the **-w** option to **true** and the user attempts to perform a shutdown during a distribution for which the shutdown has been disabled. When customizing the message, you can use the \n symbol for inserting a carriage return. The default value is: "Please choose one of the following"

**-G** *timeout*

Specifies a timeout in seconds for choosing between a logoff, a restart, and a logoff and shutdown. If you set the timeout to **0**, the message is not displayed and the default action is performed. After the timeout expires, the default action is performed. For more information on the default action, see the **-J** option. The default value is **0**.

**-T** *logoff\_str*

Defines the first option displayed in the message to request whether a logoff should be performed. If you select this option, a logoff is performed immediately. The default value is "Logoff".

**-H** *logoff\_and\_shut*

Defines the second option displayed in the message to request whether a logoff and a shutdown should be performed. If you select this option, a logoff is performed immediately and a shutdown is performed when the last distribution completes. The default value is "Logoff & shutdown when complete".

**-K** *restart\_str*

Defines the third option displayed in the shutdown message to request whether a restart should be performed. If you select this option, a restart is performed immediately. The default value is "Restart".

**-J** [1 | 2 | 3]

Specifies the default action to be performed when the timeout expires or is set to 0. Supported values are as follows:

- 1 Performs a logoff immediately.
- 2 Performs a logoff immediately and a shutdown when the last distribution completes. This is the default value.
- 3 Performs a restart immediately.

**-P** [true | false]

Specifies whether a message must be displayed on the endpoint listing the number of logins allowed on the workstation. You can define this key when limited logins are allowed during the distribution. Supported values are **true**, which means the message is displayed, and **false**, which means the message is not displayed. The default value is **true**.

**-Q** *message*

Defines the message contained in the dialog box displayed on the endpoint if you set the **-P** option to 1. When customizing the message, you can use the \n symbol for inserting a carriage return and the \$(LEFT\_LOGON) variable which is replaced at run time with the number of allowed logins. The default value is: "The current distribution has been paused\nYou can logon \$(LEFT\_LOGON) times."

**Return Values:** The **wdepccm** command returns one of the following:

**0** Indicates that **wdepccm** completed successfully.

**other than zero**

Indicates that **wdepccm** failed due to an error.

**Examples:**

1. To display the value set for the **-p** option, type the following command:  
wdepccm -g p
2. To set the default action to be performed when the timeout expires so that an immediate logoff is performed, type the following command:  
wdepccm -s J 1

## Avoiding concurrent logins during critical distributions

Using the GUI or the command line, you can define a set of software packages for which user login and shutdown operations can be disabled while the distribution is taking place. This feature guarantees that critical distributions are not interrupted. You can also define a maximum number of logins that can be performed during a distribution. If the user logs in, the distribution is paused and restarts after the user logs off.

Using a series of configurable messages, you can notify the user of the distribution taking place on the workstation, list the number of logins allowed, if any, and prompt the user who is trying to perform a shutdown during a distribution for which the shutdown is disabled to choose between logoff options.

In the Software Distribution command line, the **-X {none | first | middle | last | both}**, **-Y *max\_login\_allowed***, and **-W** options have been added to the following commands, as described below:

- waccpst
- wcommstp
- winstp
- wspmldata
- wremovsp
- wundosp

### **-X {none | first | middle | last | both}**

Use this option to define a set of software packages for which user login and shutdown operations can be disabled while the distribution is taking place. If you define a package as **first**, this package is the first in a series for which you can define these options. Define the other packages in the series as **middle** and the last package as **last**. A software package defined as **last** must exist for each software package defined as **first**. If the series consists of just one package, define this package as **both**, which means the software package is both first and last in the series. The default value is **none** which means user login and shutdown operations cannot be disabled.

### **-Y *max\_login\_allowed***

Use this option to specify whether users can log on to the workstation while a distribution is taking place. This setting can be defined only for software packages defined as **first** or **both**. It applies to software packages defined as **first**, **middle**, **last**, or **both**. Supported values are **0** (no login is allowed), **-1** (an unlimited number of logins is allowed), and any positive integer. If a login is performed while the distribution is taking place, the distribution is paused until the user performs a logoff.

### **-W**

Specifies that the user cannot perform a shutdown while a distribution is taking place. If the user attempts to perform a shutdown and the timeout is set to a value other than zero using the **Timeout** key, a dialog box is displayed on the endpoint listing the allowed operations and requesting the user to select one. The user can choose between performing a restart, a logoff, or a logoff and shutdown. The restart and logoff operations are performed immediately, while the shutdown is performed after the last distribution has completed. If the user does not respond to the

dialog within the allotted time, the default action is performed. The default action is logoff and shutdown.

In the Activity Planner and Software Distribution GUI, the Concurrent Login section was added to the panels for the following operations, as described below:

- Accept
- Commit
- Delete
- Install
- Retrieve
- Send
- Remove
- Undo

**Type** Define a set of software packages for which user login and shutdown operations can be disabled while the distribution is taking place. If you define a package as **first**, this package is the first in a series for which you can define these options. Define the other packages in the series as **middle** and the last package as **last**. A software package defined as **last** must exist for each software package defined as **first**. If the series consists of just one package, define this package as **both**, which means the software package is both first and last in the series. The default value is **none** which means user login and shutdown operations cannot be disabled.

#### **Max Login Allowed**

Specify whether users can log on to the workstation while a distribution is taking place. You can specify this setting only for software packages defined as **first** or **both**. Packages defined as **middle** or **last** inherit the settings defined for the package defined as **first**. Supported values are **0** (no login is allowed), **-1** (an unlimited number of logins is allowed), and any positive integer. If a login is performed while the distribution is taking place, the distribution is paused until the user performs a logoff.

#### **Disable Shutdown**

Select this check box to specify that the user cannot perform a shutdown while a distribution is taking place. If the user attempts to perform a shutdown and the timeout is set to a value other than zero using the **Timeout** key, a dialog box is displayed on the endpoint listing the allowed operations and requesting the user to select one. The user can choose between performing a restart, a logoff, or a logoff and a shutdown. The restart and log off operations are performed immediately, while the shutdown is performed after the last distribution has completed. If the user does not respond to the dialog within the allotted time, the default action is performed. The default action is log off and shutdown. You can specify this setting only for software packages defined as **first** or **both**. Packages defined as **middle** or **last** inherit the settings defined for the package defined as **first**.

Dataless packages cannot be paused, therefore you should add them in a series of packages and define them as **middle**.

For more information on the Software Distribution GUI and command line, refer to *IBM Tivoli Configuration Manager: User's Guide for Software Distribution* and *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution*.

---

## Implementing the activity plan group management feature

This feature introduces a means of creating, submitting, and tracking groups of related activity plans. The scripts and other related files that make up this tool are provided together with the fix pack and must be copied manually on to the target system or systems.

Implementation of the tool comprises the following tasks:

- Preparation activities that you must do once only before using the scripts. See “Preparing to use the tool.”
  - Creation of a group of plans, including the definition of input files and the running of the creation script. See “Creating a group of activity plans” on page 74
- To use the creation script, you must install perl 5.
- Submission and tracking of a group of plans by the definition of a recurring job. See “Submitting and tracking an activity plan group” on page 75.

### Preparing to use the tool

Before using the tool for the first time, complete the following steps:

1. Run the appropriate SQL script to create the USER\_TAB\_COLUMNS view in the APM and MDIST2 databases. This task is not required for Oracle databases.

The following scripts are provided:

```
create_db2_mvcs_user_tab_columns.sql
create_db2_user_tab_columns.sql
create_infx_user_tab_columns.sql
create_ms_sql_user_tab_columns.sql
create_syb_user_tab_columns.sql
```

2. In the EtcTivoli directory, create the configuration file *wcfsplng.ini* to contain the following parameters:

**TmpDir** : Temporary directory

**WorkDir**: The main working directory of the tool

**WebBase**: Directory in which the output HTML reports are stored

**ExclusionList**: The full path name of a file containing a list of targets to be excluded from plan submissions.

**LogFile**: The full path where the log file for the tool is stored.

**LogLevel**: Possible values are 0 (fatal errors), 1 (errors), 2 (warnings), 3 (information). 0 is the default.

**MailList**: List of mail addresses for notifications.

**MailLevel**: Possible values are 1 (high importance), 2 (normal). 1 is the default.

**MailHost**: For Windows only, the host name of the mail server.

**HTTPBase**: Link to the location on the HTTP server to which the reports will be transferred.

**Note:** The HTML reports must be transferred from the **WebBase** directory to the **HTTPBase** after each iteration of the reporting script. You can avoid this task by directly mapping the directory to the managed node where the script is run or by configuring the managed node as an HTTP server.

**ActivityDelimiter**: A character that is used in the definition of an activity plan to separate the name of the activity to be performed from the name of the software package. The default is %.

**SWDPackageCheck**: Indicates whether the plan group creation script should check the existence of software packages specified in the script



parameters. The values **F**, **f**, **N**, **n**, and **0** indicate that no check should be made. Any other value indicates that the check should be made.

**ActiveLimit:** The maximum number of activities that can be current at any one time. The script that submits and tracks activity plan groups considers this limit when submitting the activities included in the plans.

**UnavailAsActive:** This can be set to false (the default), which can be indicated as **F**, **f**, **N**, **n**, or **0**, or true, which can be indicated as **T**, **t**, **Y**, **y**, or **1**.

This parameter is used by the submission and tracking script when it determines whether submitting an activity will cause the **ActiveLimit** to be exceeded. If the parameter is set to false, any activities that have been submitted and not yet completed on targets that are either unavailable or interrupted are not included in the number of current activities. For example, **ActiveLimit** is set to 100 and 90 submitted activities have not yet completed of which 10 are on targets that are not available. In such a scenario, if this parameter is set to false, a maximum of 20 activities can be submitted by the script, while if this parameter is set to true only 10 can be submitted.

3. In the directory specified as **WorkDir**, create the subdirectories *cfg* and *Targets*.
4. If required, create a file containing the list of targets to be excluded from plan submissions and save it with the path name specified in the **ExclusionList** parameter.

## Creating a group of activity plans

To create a group of activity plans, complete the following steps:

1. In the *<WorkDir>\cfg* directory, for each plan you want to include in the group, create a plan configuration file with the following CSV format:

```
Xml_Name:Target_File:From_Depot[:ActivityName<delimiter>SWD_Package...]
```

Where:

**Xml\_Name** is a name that will form part of the unique name of the plan within the group.

**Target\_file** is the name of a text file containing the list of targets for the plan.

**From\_Depot** indicates whether the software package distributed by the plan is to be distributed from a depot. Possible values are **T** (true) and **F** (false).

**ActivityName** identifies an activity that is to be performed on the specified software package. The ActivityName must identify an activity that is defined in the XML template you are using for this group of plans. The XML template to be used is defined in the *xml\_base* parameter at the next step.

**SWD\_Package** is the name of the software package to be distributed by the plan. .

The parameters **ActivityName** and **SWD\_Package** form a pair separated by a delimiter (by default %). Repeat this pair of parameters for each activity and software package that are to be included in the plan.

2. For each plan configuration file you created, create a file containing the list of targets for the plan and save it in the *<WorkDir>\Targets* directory with the name *<Target\_file>.txt*
3. In the *<WorkDir>\cfg* directory, create the file *Master\_CFG.lst* .

This file is in CSV format. Each line represents a base APM plan and has the following format:

```
xml_base:id:Cfg_Plan:Exclusion_Flag
```



Where:

**xml\_base** is the name of the XML file to be used as a template for the APM plan.

**Id** is an identifier that will form part of the unique name of the plan within the group.

**Cfg\_Plan** is the name of an plan configuration file that you created for the plan.

**Exclusion\_Flag** indicates whether the ExclusionList file is to be used when determining targets for this plan. Possible values are **y** and **n**.

4. Ensure that each XML file, identified by the **xml\_base** parameter for each line in the *Master\_CFG.lst* file, is present in the <WorkDir> directory.
5. Run the activity plan group creation script:

```
perl wcrtpng.pl base_name
```

Where *base\_name* is a name that will identify the group as a whole and form part of the name of each plan that is included in the group.

The script creates an XML file for each line in the *Master\_CFG.lst* file. The name of each file is constructed as follows: *base\_name\_id\_xml\_name*. The script imports the XML files to generate APM plans and creates the file *base\_name\_dist\_pln.lst* containing information about all the plans that have been created. All files are created in a subdirectory of <WorkDir> called *base\_name*.

## Submitting and tracking an activity plan group

The **wmngplng.sh** script is used to submit the activity plan group and to track its progress. You should set it up as a regularly repeating job with the following syntax:

```
wmngplng.sh base_name
```

The *base\_name* parameter identifies the group that is to be processed and enables the script to retrieve the *base\_name\_dist\_pln.lst* which contains details of the plans to be managed.

The script first attempts to submit each activity for each target included in the plan group. Depending on the number of activities currently active and the values of the **ActiveLimit** and **UnavailAsActive** parameters, some activities might not be submitted the first time the script runs. For subsequent runs, the script checks for any activities that have not been submitted and attempts to submit them. It also tracks the progress of activities that have already been submitted in previous runs, producing detail and summary reports for each plan and creating or updating the file *index.html* which contains the links to the detail and summary reports. All files are stored in the directory <WebDir>\base\_name

---

## Documentation notes

This section contains new information and documentation corrections contained in this fix pack and in previous fix packs.

## Documentation problems and corrections contained in this fix pack

### User's Guide for Inventory

This section contains new and updated information for *IBM Tivoli Configuration Manager User's Guide for Inventory*:

#### APAR IZ50799

In Chapter 3. Working with Inventory profiles in the "Software scan configuration options" section subsection "Scan Options" replace the current text:

Signature data includes the name, size, and usually the quick checksum value of the file used to identify the software product.

with the following text:

Signature data includes the name and the size of the file used to identify the software product.

#### APAR IZ50799

In Chapter 5. Collecting custom information with Inventory in the "Using signatures" section replace the current text:

Signature data includes the name, size, and usually the Quick checksum value of the file used to identify the software product.

with the following text:

Signature data includes the name and the size of the file used to identify the software product.

#### APAR IZ50799

In Appendix B. Commands in the "winvsig" section replace the current description for the **-a** command option with the following text:

Adds one or more signatures to the configuration repository, and modifies existing signatures. Each signature must have a unique file name and size. If the specified signature already exists, the information for the existing signature (for example, the description or version) is modified.

#### APAR IZ50799

In Appendix B. Commands in the "winvsig" section replace the current description for the **-f** command option with the following text:

Specifies the name of a file that contains the data for one or more signatures. The signature data in the file must be in the following format:  
*<I>,name,size,description,version*

The signature file supports also the XML file format.

#### APAR IZ53312

At the end of Appendix E. Installing and uninstalling Common Inventory Technology (CIT) add the following new section:

##### **Setting the CIT processes priority on Windows**

On Windows platforms, you can specify locally on each endpoint the priority for the different CIT processes by editing the **cit.properties** file and adding for example the following priorities:

```
fscanner.changepriority=low  
swscanner.changepriority=low  
hwscanner.changepriority=low  
vpdscanner.changepriority=low
```

If you want to add the priority settings directly to the **CIT\_win.spb** package used to install CIT, perform the following steps:

1. Get the **CIT\_win.spb** package from a gateway. The package is located under the *..bin/lcf\_bundle.41100/lib/w32-ix86/inv/CIT/SPB* directory.

2. Using the Software Package Editor disconnected command line, unbuild the **CIT\_win.spb** package by running the command:  
wdubldsp.exe

The command extracts a software package (.sp file) and the CIT files.

3. Edit the unpacked **cit.properties** file and add, at the bottom of the file, the following lines:  
fscanner.changepriority=low  
swscanner.changepriority=low  
hwscanner.changepriority=low  
vpdscanner.changepriority=low

Save the file.

4. Build the **CIT\_win.spb** again by running the command:  
wdbldspb.exe

The new **CIT\_win.spb** now includes the new **cit.properties** file with the priority settings you set.

5. Save the original **CIT\_win.spb** on the gateways and store the new **CIT\_win.spb** under the same directory.
6. During the next CIT installations, on the endpoints, are automatically included the CIT priority settings contained in the **cit.properties** file.

#### APAR IZ53836

In Appendix B. Commands in the "wqueryinv" section add the following note:

**Note:** When using a Tivoli query containing views sharing the same TME\_OBJECT\_ID field and running the **wqueryinv** command against that query, the command fails with a parse error due to an ambiguous column reference. For example, if you are using an Oracle database the error message displayed is the following:  
ORA-00918: column ambiguously defined

You can run the command only with Tivoli queries where only one table and view have the TME\_OBJECT\_ID field.

## Database Schema Reference

This section contains new and updated information for *IBM Tivoli Configuration Manager Database Schema Reference*:

#### Feature MR0808085933

- In Chapter 5. Configuration repository tables in section "MSWARE\_DESC" add the following column to the current list:  
ACCESSED\_TIME
- In Chapter 3. Configuration repository views in section "INST\_SWARE\_VIEW" add the following column to the current table:

Table 80.

Column name	Description
ACCESSED_TIME	The GMT time when the signature file was last accessed.

- In Chapter 4. Queries in section "INVENTORY\_SWARE" add the following column to the current list:

## ACCESSED\_TIME

### Feature 235414

In Chapter 2. History tracking in section "Modifying history tracking for efficiency" replace the first bullet of the section with the following text:

- Exclude any history tables for which you do not want to gather data.

By default, the `h_database_schema.sql` scripts create a table to correspond to every inventory table in the `inv_database_schema.sql` script that contains the attribute `COMPUTER_SYS_ID`. If there are tables for which you do not want to keep history tables, perform the following steps:

1. Create the table `EXCLUDED_H_TABLES`.
2. Insert the name of the table to be excluded in `EXCLUDED_H_TABLES`.

You can find the SQL statements for performing these operations in the `h_inv_*_schema_423_FP09.sql` script file.

### APAR IZ48308

In Chapter 3. Configuration repository views in section "PHYSICAL\_PROCESSOR\_VIEW" add the following columns to the current table:

Table 81.

Column Name	Description
MANUFACTURER	Processor manufacturer. Examples: Intel, AMD, IBM, SUN, HP. If the manufacturer is not recognized (is not in the list of families supported by Common Inventory Technology) then this field has value of "Unknown".
FAMILY	Processor family. Examples: Pentium 4, Xeon, Athlon 64, POWER5, UltraSparc-T1, PA-RISC. If the family is not recognized (not in the list of families supported by Common Inventory Technology) then this field has value of "Unknown".
TYPE	Processor type. Examples: 170 for AMD Opteron 150, 670 for Intel Pentium 4 670. If Common Inventory Technology does not support type identification for the family of processors then this field has value of an empty string. If Common Inventory Technology supports type identification for the family of processors but the type of processor is not recognized then this field has value of "Unknown".
CPU_FREQ	Processor frequency in MHz. This field is optional and vendor-specific. Depending on the processor family it might be nominal or current CPU frequency. CPU frequency might be interpreted differently across processor architectures and families. If not valid this field is 0.
L2_CACHE_SIZE	Size of L2 cache in Kilobytes. This field is optional, 0 if not valid.

Table 81. (continued)

Column Name	Description
L3_CACHE_SIZE	Size of L3 cache in Kilobytes. This field is optional, 0 if not valid or there is no L3 cache.
SIGNATURE	Processor signature. This field is optional and platform- and vendor-specific. The value of this field might be taken from different sources on each platform and even for different processor families. If available this is processor model identifier as reported by CPUID instruction, BIOS or OS. This field is for internal Common Inventory Technology purposes only, the exploiter should make no assumption on contents nor format of this field.

#### APAR IZ51439

In Chapter 3. Configuration repository views, in the "NET\_CARD\_VIEW" section modify the following information:

- In the PERM\_MAC\_ADDR row check the operating system column for Linux (S/390).
- In the CURRENT\_ADDR row check the operating system column for Linux (S/390).
- In the MANUFACTURER row uncheck the operating system columns for OS/2 and Solaris.

#### APAR IZ53642

In Chapter 3. Configuration repository views, in the "PRINTER\_VIEW" section replace the current description for the PRINTER\_IS\_LOCAL column with the following description:

If the printer is a local printer or a network printer, and is the default printer or not. This column can have one of the following values:

- Y**      The printer is not the default printer and is local.
- N**      The printer is not the default printer and is not local.
- Z**      The printer is the default printer and is local.
- O**      The printer is the default printer and is not local.

### Patch Management Guide

This section contains new and updated information for *IBM Tivoli Configuration Manager Patch Management Guide*:

#### Defect 65768

In Chapter 2. Installing the automated patch management solution, section "Installing the Patch Management component", subsection "Before you begin", in the "Files to download" table replace the current Web site for the WUA download with the following Web site:

<http://download.windowsupdate.com/v6/windowsupdate/redist/standalone/WindowsUpdateAgent20-x86.exe>

#### APAR IZ41238

In Chapter 7. Troubleshooting, section "Problems with the Tivoli

Configuration Manager Automation Server silent installation", subsection named "Checks run during installation" replace the current step 4 of the procedure:

Before starting the Tivoli Configuration Manager Automation Server installation, checks the correctness of the directories for the configuration files and that Windows Instrumentation Service is not running to prevent the failure of the MQ Series component .

with the following text:

Before starting the Tivoli Configuration Manager Automation Server installation, checks the correctness of the directories for the configuration files.

#### APAR IZ41238

In Chapter 2. Installing the automated patch management solution, section "Installing and configuring Cygwin" add at the end of the current step 4 the following text:

The new output of the **mount -m** command will be:

```
mount -f -s -b "C:/cygwin/bin" "/usr/bin" mount -f -s -b  
"C:/cygwin/lib" "/usr/lib" mount -f -s -b "C:/cygwin" "/"
```

#### APAR IZ41238

In Chapter 2. Installing the automated patch management solution, section "Installing and configuring Cygwin" add at the end of the current section the following new steps:

- Create a copy of the tpm\_install folder. When you have locally copied the installation CD and customized the tpm\_install.req file, create a copy of the subdirectory: tpm\_images\cd2\tpm\_install.
- Remove the ^M character. Under the tpm\_images\cd2\tpm\_install folder, run the dos2unix command against all files to remove all the ^M characters.
- If you are running on Windows 2003 Standard with SP1 verify that the Windows Firewall/Internet Connection Sharing (ICS) service is started.

## Reference Manual for Software Distribution

This section contains new and updated information for *IBM Tivoli Configuration Manager Reference Manual for Software Distribution*:

#### APAR IZ53412

In Chapter 1. Editing the Software Package Definition File, section "Structure of the SPD File" before the paragraph:

The sections where these stanzas are described show the structure in which you should define each stanza and provide examples.

add the following paragraph:

At installation time, the installation of a software package starts only if, during the check of the conditions specified in all software package stanzas, all these conditions are verified.

#### APAR IZ57893

In Chapter 1. Editing the Software Package Definition File, section "Attributes in the File System Stanzas" table "SPD File attributes in file system stanzas" in the row for the **descend\_dirs** attribute:

add the following note:

Note: If you set this attribute to **y** when creating on UNIX platforms software packages, to which a directory is added containing backward slashes, performing the **winstsp** command on the software package fails. To successfully install the software package on UNIX platforms, do not add to the package a directory containing backward slashes.

## Documentation problems and corrections contained in previous fix packs

### Planning and Installation Guide

This section contains new and updated information for *IBM Tivoli Configuration Manager Planning and Installation Guide*:

#### Defect 56291

In Chapter 5 "IBM Tivoli Configuration Manager Installation and Upgrade", in the "Custom Server Installation" section, at the end of step 10 add the following information:

Ensure that the password you specify does not contain a special character at the end.

#### Defect 58844

In Chapter "Component Installation Prerequisites", in the "IBM Tivoli Configuration Manager packaging" change the **IBM Tivoli Configuration Manager Desktop, Version 4.2.3** description as follows:

This contains the installation image and the InstallShield wizard for a fresh installation or an upgrade of IBM Tivoli Configuration Manager on any workstation that is not a managed node or a Tivoli server.

#### APAR IZ26569

In Chapter 7. Maintaining and Troubleshooting a Configuration Management Environment add the following new section after the section named "Installation Fails to Start":

##### Tivoli Web Gateway Installation Fails on AIX

The following error is returned when running `setup_aix.bin` to install Tivoli Web Gateway on an AIX workstation:

```
Command failed for db_vendor_name -tvf
/usr/TivTwg_II/db/config/work/db/db_vendor_name/sql/create_db.sql
```

This might be due to an incorrect umask setting on the target workstation. Tivoli Web Gateway requires umask to be set to 022. To solve this problem, check the umask setting and correct if necessary.

### License Management Extension

This section contains new and updated information for *IBM Tivoli Configuration Manager License Management Extension*:

#### APAR IY87620

In Chapter 2. Planning the license management extension topology in section "Prerequisites for new components" add after the text:

The following Configuration Manager components are prerequisites for the Configuration Manager Extension for License Manager component:

- Inventory Server
- Software Distribution Server

the following paragraph:



If a managed node is created to hold the Tivoli License Manager data handler the following products are needed:

- Configuration Manager extension for License Manager
- Framework gateway
- Inventory Server
- Software Distribution gateway

#### **APAR IY87630**

In Chapter 5. Deploying and configuring agents in section "Deploying agents using Configuration Manager software package blocks" add at the end of the current step 5:

Copy the `agt_install.pl` script to the Tivoli server to import the software package blocks.

the following information:

**Note:** Ensure that all software package blocks are stored under the same directory, otherwise the `agt_install.pl` script will not work.

### **User's Guide for Deployment Services**

This section contains new and updated information for *IBM Tivoli Configuration Manager User's Guide for Deployment Services*:

#### **Defect 56271**

In Chapter 2 "Performing Activity Planner Operations", in the "Launching the Activity Planner GUIs" section, add to the third bullet of the procedure the following information:

To use the Activity Plan Editor and the Activity Plan Monitor GUIs from the Tivoli desktop, the user password can contain all the special characters from ASCII 32 to ASCII 127. The only special character that cannot be used is "double quotes".

#### **Defect 58571**

In Chapter 4 "Troubleshooting" add after the last section the following information:

If you are using a Sybase database in your Tivoli environment and the manual configuration of the environment is performed before installing the Activity Planner component, then the same configuration should be repeated after the Activity Planner installation because the settings of the `LD_LIBRARY_PATH` environment variable are overwritten by the Activity Planner installation.

#### **Defect 58569**

In Chapter 24 "Troubleshooting" add after the last section the following information:

If you are using a Sybase database in your Tivoli environment and the manual configuration of the environment is performed before installing the Directory Query component, then the same configuration should be repeated after the Directory Query installation because the settings of the `LD_LIBRARY_PATH` environment variable are overwritten by the Directory Query installation.

#### **APAR IZ10192**

In Chapter 4 "Troubleshooting", in the "Specific Problems and Workarounds" section, at the end of the section add the following information:



### JCF paths for the APMCLASSPATH environment variable are wrong

If you migrate from older releases to Tivoli Configuration Manager 4.2.3 release, the odadmin environment variable APMCLASSPATH wrongly points to the following paths:

- 4.1 JRIM.jar
- 4.1 JCF.jar
- 4.1 ibmjsse.jar
- 4.1 jsafe.zip

even if you have migrated to the correct Tivoli Management Framework level.

Manually correct the paths by modifying them as follows:

- 4.1.1 JRIM.jar
- 4.1.1 JCF.jar
- 4.1.1 ibmjsse.jar
- 4.1.1 jsafe.zip

**Note:** On AIX platforms, do not use the VI editor to modify these paths.

### Defect 60053

In Chapter 13. Administering the Web Interface in section "Publishing and Unpublishing Web Objects" subsection "wwweb" add the following information to the current **{-i all | -i interp }** description:

The possible values are:

- win95
- w32-ix86
- aix4-r1
- solaris2
- hpux10
- linux-ix86
- all

### Reference Manual for Software Distribution

This section contains new and updated information for *IBM Tivoli Configuration Manager Reference Manual for Software Distribution*:

#### APAR IY97515

In Chapter 1 "Editing the Software Package Definition File" in section "execute\_user\_program" in subsection called "Format of the execute\_user\_program Stanza" add before the paragraph:

The corequisite\_file stanza comprises two different sets of attributes, the add\_file set and add\_directory set.

the following information:

When you create a package that contains:

- user\_program during\_install with corequisite files (for example a file named coreq\_install)
- user\_program during\_commit with corequisite files (for example a file name coreq\_commit)

and install it in transactional, the two corequisite files (coreq\_install and coreq\_commit) are downloaded on the target. During the package

installation, the coreq\_install file is used and then deleted. During the package commit, the coreq\_commit file is used but it is not deleted, because it might be used in the remove operation if performed in transactional mode.

#### APAR IY98382

In Chapter 1 "Editing the Software Package Definition File" modify the table contained in section "Attributes in the File System Stanzas" as follows:

in the table row for "name" under the column "required" replace "yes" with "no".

### User's Guide for Inventory

This section contains new and updated information for *IBM Tivoli Configuration Manager User's Guide for Inventory*:

#### APAR IY76046

In Chapter 3. Working with Inventory profiles, section "Software patch scan options for PC", add at the end of the section the following paragraph:

For more details on these files, refer to the *IBM Tivoli Configuration Manager Patch Management Guide*.

### WSUS Automated Patch Management Solution

If you installed the WSUS Patch Automation solution, replace the mssecure.cab, mbsacli.exe, and ApprovedItems.txt files with the following files everywhere:

Table 82. WSUS patch management files

SUS Files	WSUS Files
mssecure.cab	wsusscan.cab
mbsacli.exe	WindowsUpdateAgent20-x86.exe
ApprovedItems.txt	ApprovedChanges.txt

#### APAR IY81403

The "temporary tables" feature does not apply on Sybase and Informix®, because these 2 RDBMS vendor do not clean up the contents of a temporary table after the commit; only after releasing the session to the database. So, you will see some messages like:

Sybase Server Error: Msgno 3621 Level 10 State 0 Command has been aborted due to "unique constraint violation" errors caused by attempts to insertrows already present in the database.

This error can cause a decrease in performance.

#### APAR IY92834

In Appendix B "Commands", in the "wtransfer" section, add to the command description the following information:

The wtransfer command uses TAR software to compress the files to be transferred from one managed node to another. Some HP-UX platforms do not allow long file names, the size limit depends on the specific HP-UX version. So if the TAR software on the source workstation allows long file names, and the TAR software on an HP-UX target workstation does not, the files are not transferred. This problem can be solved only if a patch for the specific HP-UX version is available.

## APAR IY96075

In Appendix E "Installing and uninstalling Common Inventory Technology (CIT)", in the "Installing Common Inventory Technology (CIT)" section, add the following information at the end of the current section:

Another way to change the CIT installation directory is to overwrite the default CIT\_DestinationDirectory variable by editing the CIT\_Preinstall.spb software package. The modified CIT\_Preinstall.spb should then be distributed against all the gateway bundle directories replacing the old software package.

After installing any Tivoli Configuration Manager fix pack or interim fix and before performing any Tivoli Configuration Manager activity on the endpoints of your environment, perform the following steps:

1. Make a backup copy of the old CIT\_Preinstall.spb software package before replacing it with the new one.
2. Import the software package using the **CIT\_import.pl** command. This command creates a profile manager called Inventory\_CIT\_PM and adds to the profile manager the following software packages:

```
CIT. 2.6.0
CIT_Preinstall.CIT
```

**Note:** The CIT version 2.6.0 might vary depending on which fix pack or interim fix you have installed.

3. Open the Inventory\_CIT\_PM profile manager and right-click CIT\_Preinstall.CIT.
4. Select **Convert → Unbuild**.
5. Specify a path where to unbuild the software package, then select **Convert & Close**.
6. Open CIT\_Preinstall.CIT using the software package editor and select **edit → variable list editor**. The default value for CIT\_DestinationDirectory is:

```
$(Destination_$(os_family))$(FileSeparator)
tivoli$(FileSeparator)cit
```

Modify this value for example into

```
$(Destination_$(os_family))$(FileSeparator)
..$(FileSeparator)mydir
```

The new CIT installation directory is C:\Program Files\..\my\_cit\_dir on Windows workstations, or /opt/../../my\_cit\_dir path on UNIX.

7. Save the modified variable value.
8. Right-click again CIT\_Preinstall.CIT.
9. Select **Convert**.
10. Specify the old name and path of the software package, select the **overwrite** check box, then select **Convert & Close**. The default path used by the new CIT\_preinstall.spb software package has been updated.
11. Replace the CIT\_preinstall.spb software package on all the gateway bundle directories of your environment. All the following software packages must be replaced with the new .spb file:

```
lcf_bundle.41100\lib\aix4-r1\inv\CIT\SPB\CIT_Preinstall.spb
lcf_bundle.41100\lib\hpux10\inv\CIT\SPB\CIT_Preinstall.spb
lcf_bundle.41100\lib\linux-ix86\inv\CIT\SPB\CIT_Preinstall.spb
lcf_bundle.41100\lib\linux-ppc\inv\CIT\SPB\CIT_Preinstall.spb
lcf_bundle.41100\lib\linux-s390\inv\CIT\SPB\CIT_Preinstall.spb
lcf_bundle.41100\lib\solaris2\inv\CIT\SPB\CIT_Preinstall.spb
lcf_bundle.41100\lib\solaris2-ix86\inv\CIT\SPB\CIT_Preinstall.spb
lcf_bundle.41100\lib\w32-ix86\inv\CIT\SPB\CIT_Preinstall.spb
```

**Note:** It is recommended to test the new variable on some endpoints, before deploying it to the entire environment.

#### Feature 205561

In Appendix B "Commands" in section "wsetinvpchw" add to the list of the **-a** components the following new component:

**Lpar** Lists the number of processors allocated on each logical partition.

#### Feature 205561

In Appendix B "Commands" in section "wgetinvpchw" add at the end of the command output the following row:

Lpar:YES

#### Feature 205561

In Appendix E "Installing and uninstalling Common Inventory Technology (CIT)" after the "Managing the Inventory bundle dependency set" section, add the following new sections:

##### Scanning virtual environments

Inventory uses the CIT capability to collect LPAR information in a VMware environment.

VMware versions supported by CIT are shown in the table below:

*Table 83. Versions of VMware supported by CIT*

VMWare versions tested on CIT
ESX Server 2.5.3
ESX Server 3.0
ESX Server 3.01
ESX Server 3.02
ESX Server 3.5

Standard Inventory functions are not impacted whether the scans are performed on guest or host operating systems. However, due to a limitation of the data export function in the virtualization software, hardware and software discovery operations performed on guest operating systems might report incorrect data.

CIT provides an enabler to export correct data to the guest systems so that CIT instances installed on each operating system partition can discover and return correct data.

The CIT enabler stores the correct hardware information on the guest operating systems. In this way when a hardware Inventory scan starts on a guest operating system, the correct hardware configuration data is retrieved and stored in the Inventory RDBMS. You can query the data by running the LOGICAL\_PARTITION\_QUERY and the LOGICAL\_PARTITIONED\_SYSTEMS\_QUERY

## Starting the enabler

The CIT enabler is installed on the physical workstation which hosts the guest operating systems. The CIT enabler does not require an installation process. To use the CIT enabler, copy the files listed below from the /cit\_enabler folder on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 1 to the workstation which hosts the guest operating systems:

Table 84. Enabler executable files

Virtual software	Supported OS	Files
VMware	Microsoft Windows	<ul style="list-style-type: none"><li>• cpuid.exe</li><li>• retrieve.pl</li><li>• wenvmw.exe</li></ul>
	Linux	<ul style="list-style-type: none"><li>• cpuid</li><li>• dispatcher</li><li>• retrieve.pl</li><li>• wenvmw.sh</li></ul>

You must install VMware VmPerl Scripting API before starting the enabler for the first time.

To start the enabler, launch the executable file from a shell or command prompt. You can optionally specify the **-v** option to generate a log file named `env_out.txt`, which is created in the same directory where the executable file is located.

### Notes:

1. The guest workstations must be active when the enabler is started.
2. Any guest workstations not active when the enabler is running, are not detected.
3. If you run the enabler after the configuration changes are applied to the guest workstation, the updated data is returned by the hardware scan.
4. The information retrieved by the enabler is deleted after a reboot.

### Enabler return codes

The following is a list of the return codes returned by the enabler. Return codes help you identify the result of the command.

A return code of 0 indicates that the command completed successfully:

OK: CIT ENABLER return code = 0

while a nonzero return code indicates that an error occurred. The following example shows the case in which the user does not have enough privileges, when running the CIT enabler executable:

OK: CIT ENABLER return code = 11

ERROR: dispatcher return code = 11"

A complete list of all nonzero return codes is provided in the table below:

Table 85. Enabler return codes

Return value	Code	Description
RETRIEVE_NODECAPACITY_ERROR	1	Cannot collect host system processor number.

Table 85. Enabler return codes (continued)

Return value	Code	Description
RETRIEVE_NODEID_ERROR	2	Cannot collect host system serial number.
RETRIEVE_VMCAPACITY_ERROR	3	Cannot collect number of processors assigned to virtual machines.
RETRIEVE_VMID_ERROR	4	Cannot collect virtual machines IDs.
SET_GUESTINFO_ERROR	5	Cannot transfer information from host system to guest systems.
GET_VMLIST_ERROR	6	Cannot retrieve list of registered virtual machines.
CONNECT_VM_ERROR	7	Cannot establish connection with virtual machines.
NO_PRIVILEGES	11	User does not have enough privileges when running the CIT enabler executable.
GENERIC_ERROR	-1	A generic error has occurred. For more information, enter the command again with the -v option. The resulting information is logged into the env_out.txt file.
VMWARENOTFOUND_ERROR	100	VMware Server not found on host system.
VMWARENOTSUPPORTED_ERROR	105	VMware Server version not supported.
VMPERL_NOT_FOUND	120	VmPerl Scripting API not found or incorrectly configured.

#### Defect 205492

In Appendix E "Installing and uninstalling Common Inventory Technology (CIT)" in section "Installing Common Inventory Technology (CIT)" replace the current step 5 of the procedure with the following information:

On the Inventory server, run the following command:

```
winstsp -f -ty @CIT. 2.6.0 @Endpoint:ep1
wcommstsp -f @CIT. 2.6.0 @Endpoint:ep1
```

where:

**ep1** Is the name of the endpoint.

#### Defect 205493

In Appendix E "Installing and uninstalling Common Inventory Technology (CIT)" in section "Installing Common Inventory Technology (CIT)" replace the current step 2 of the procedure with the following information:

On the Inventory server, run the following command:

```
$BINDIR/../generic/inv/SCRIPTS/CIT_import.pl -d CD_ROM/CIT_SPB
```

where

**CD\_ROM/CIT\_SPB**

Specifies the path where the CIT\_Preinstall.spb and CIT.spb software packages are located on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 9 CD 1.

You can also copy the software packages to a local folder and run the command locally.

#### Defect 203233

In Appendix F "Troubleshooting" add the following new section called **Common Inventory Technology scanners**:

If you experience issues related to Inventory hardware and software scans, for example the scan fails or does not collect all the expected information, it is necessary to use a troubleshooting procedure specific for the Common Inventory Technology component.

Collect the configuration files that Tivoli Configuration Manager writes and passes to the Common Inventory Technology scanners as input parameters, and the command line syntax that Tivoli Configuration Manager uses when invoking the Common Inventory Technology scanners. Depending on the different customizations of the InventoryConfig profile and the platform on which the scan runs, the above-mentioned commands and configuration files are:

*Table 86. Commands and configuration files on Windows platforms*

Windows		
Type of scan	Command	Configuration file
Hardware scan	C:\Program Files\tivoli\cit \bin\wscanhw -c C:\win_ep_name\ \inv\SCAN\config.xml -o C:\win_ep_name\inv\SCAN\ tivhscan.mif-m	config.xml
Scan for installed products using signature matching	C:\Program Files\tivoli\cit \bin\wscansw -i C:\win_ep_name\ \inv\SCAN\wscansw.xml -o C:\win_ep_name\inv\SCAN\ swscan.xml -c C:\win_ep_name\ \inv\SCAN\config.xml -e C:\win_ep_name\inv\SCAN\ warning.out	wscansw.xml, config.xml
Scan files for basic information	C:\Program Files\tivoli\cit \bin\wscanfs -c C:\win_ep_name\ \inv\SCAN\config.xml -o C:\win_ep_name\ \inv\SCAN\tivfscan.mif -m	config.xml
Scan files for header information	C:\Program Files\tivoli\cit\ bin\wscanfs -c C:\win_ep_name\ \inv\SCAN\config3.xml -o C:\win_ep_name\inv\SCAN\ tivwscan.mif -m	config3.xml
Scan registry for product information	C:\Program Files\tivoli\cit\ bin\wscanvpd -c C:\win_ep_name\ \inv\SCAN\config.xml -o C:\win_ep_name\inv\SCAN\ tivrscan.mif -m	config.xml

Table 87. Commands and configuration files on UNIX platforms

UNIX		
Type of scan	Command	Configuration file
Hardware scan	/opt/tivoli/cit/bin/wscanhw -c /tivoli/unix_ep_name/ /inv/SCAN/config.xml -o /tivoli/unix_ep_name //inv/SCAN/ tivhscan.mif -m	config.xml
Scan for installed products using signature matching	/opt/tivoli/cit/bin/wscansw -i /tivoli/unix_ep_name/ /inv/SCAN/wscansw.xml -o /tivoli/unix_ep_name/ /inv/SCAN/swscan.xml -c /tivoli/unix_ep_name//inv/SCAN/config.xml -e /tivoli/unix_ep_name//inv/SCAN/warning.out	wscansw.xml, config.xml
Scan files for basic information	/opt/tivoli/cit/bin/wscanfs -c /tivoli/unix_ep_name//inv/SCAN/config.xml -o /tivoli/unix_ep_name/ /inv/SCAN/tivfscan.mif -m	config.xml
Scan registry for product information	/opt/tivoli/cit/bin/wscanvpd -c /tivoli/unix_ep_name//inv/SCAN/config.xml -o /tivoli/unix_ep_name//inv/SCAN/tivrscan.mif -m	config.xml

The Common Inventory Technology scanners might return error codes. Return codes help you identify the result of the command: a return code of 0 indicates that the command completed successfully, while a nonzero return code indicates that an error occurred. A list of all nonzero return codes is given in Table 88:

Table 88. Return codes

Return value	Code	Description
WSRC_WRONG_PARMS	1	One or more CLI options are incorrect.
WSRC_INPUT_FILE_PARSE_ERROR	2	An error occurred while parsing the configuration file.
WSRC_SIGNATURE_FILE_PARSE_ERROR	3	An error occurred while parsing the signature file.
WSRC_OUTPUT_FILE_ERROR	4	An error occurred while writing the output file.
WSRC_INPUT_FILE_ERROR	5	An error occurred while reading the input file.
WSRC_MISSING_SIGNATURE_FILE	6	No signature file was specified and no default signature file is available.
WSRC_VALUE_OUT_OF_BOUND	7	One of the values you specified exceeds the assigned limits.
WSRC_INTERNAL_ERROR	8	An internal error has occurred.
WSRC_TIMEOUT_ELAPSED	9	The specified timeout has expired.



Table 88. Return codes (continued)

Return value	Code	Description
WSRC_UPGRADE_IN_PROGRESS	10	CIT is being upgraded and commands are momentarily not responding.
WSRC_FILE_READ_ONLY	11	The output file is read only.
WSRC_INIFILE_NOT_FOUND	12	The cit.ini file was not found.
WSRC_CITFILE_NOT_FOUND	13	The CIT configuration file was not found.
WSRC_CCLOGFILE_NOT_FOUND	14	The CitTrace.properties file was not found.
WSRC_KEY_NOT_FOUND	15	The value you specified is incorrect.
WSRC_VALUE_NOT_VALID	16	The specified value is not valid.
WSRC_KEY_CANNOT_CHANGE	17	The specified key cannot be modified.
WSRC_FILE_CANNOT_OPEN	18	Cannot open the specified file.
WSRC_FILE_CANNOT_RENAME	19	Cannot rename the specified file.
WSRC_FILE_CANNOT_DELETE	20	Cannot delete the specified file.
WSRC_CITFILE_NOT_VALID	21	The cit.ini file is corrupt.
WSRC_CIT_TRACEFILE_NOT_VALID	22	The trace file is corrupt.
WSRC_INVALID_AGE	24	The age you specified is incorrect.
WSRC_INVALID_TIMEOUT	25	The timeout you specified is incorrect.
WSRC_INVALID_ATTRIBUTE	26	The attribute you specified is incorrect.
WSRC_INVALID_OUTPUT_FORMAT	27	The output format you specified is not supported.
WSRC_CANNOT_LOAD_PROVIDER	28	The required .dll or shared library file is not available.
WSRC_QUERY_TIMED_OUT	29	The query has reached the timeout.
WSRC_QUERY_FAILED	30	The query has failed.
WSRC_PROCESS_INTERRUPTED	31	The process was interrupted.
WSRC_NO_CONFIG_NAME	32	No configuration file was specified.
WSRC_NO_CONFIG_OPTION	33	No configuration option was specified.
WSRC_NO_OUTPUT_NAME	34	No output file was specified.
WSRC_NO_PARMS	35	No parameters were specified.
WSRC_EMPTY_CONFIG_ELEMENT	36	The configuration file contains an empty element.
WSRC_FAILURE	37	An internal error has occurred.
WSRC_NO_SORT_FIELD_NAME	38	You specified the sort option in the command without specifying a sort criterion.
WSRC_INVALID_SORT_FIELD_NAME	39	The sort criterion you specified is incorrect.

Table 88. Return codes (continued)

Return value	Code	Description
WSRC_WARNING_FILE_ERROR	40	An error has occurred while attempting to create the warning file during a software scan.
WSRC_UNABLE_TO_INITIALIZE	41	The process initialization failed.
WSRC_MISSING_XSS_SCHEMA_FILE	42	Cannot find the signature catalog schema.
WSRC_UNABLE_INSTALL_DRIVER	45	Cannot install the CITMDRV_IA64.SYS, CITMDRV_AMD64.SYS, CITMDRV.SYS drivers.
WSRC_UNABLE_LOAD_CITMEMDLL	46	Cannot load the CITMEM.DLL library.
WSRC_UNABLE_LOAD_SYMBOL_IN_CITMEM	47	Cannot load the symbols in the CITMEM.DLL library.
WSRC_UNABLE_READ_CITMEMDLL	48	Cannot read the CITMEM.DLL library.
WSRC_FILE_ACCESS_DENIED	49	The user does not have sufficient rights to access the file.
WSRC_NOT_AUTHORIZED	50	The user does not have sufficient rights to perform the operation.
WSRC_FILE_NOT_FOUND	51	The specified file or directory does not exist.

#### Defect 204521

In Appendix F "Troubleshooting" add the following new section called **Common Inventory Technology installations:**

The default installation of Common Inventory Technology is performed on the endpoints using the Tivoli Configuration Manager Software Distribution disconnected command line.

Use the following troubleshooting procedure when installing Common Inventory Technology on Tivoli Configuration Manager workstations:

1. Enable the Software Distribution disconnected CLI traces by opening on the endpoint the Software Distribution swdis.ini file, which can be found under the %WINDIR% directory on Windows and the /etc/Tivoli directory on UNIX, and set the trace\_level value to 5 in the MOBILE section of the file. A sample MOBILE section of the swdis.ini file follows:

```
[#MOBILE]
product_dir=C:\swdis
working_dir=C:\swdis\work
backup_dir=C:\swdis\backup
profile_dir=C:\swdis\work\profiles
trace_level=0
trace_size=1000000
send_timeout=300
autopack_dir=C:\swdis\autopack
staging_dir=swdis\service
user_file_variables=C:\swdis\swdis.var
import_libraries=spd,libecimp
```
2. Distribute an Inventory profile by running the wdistinv command using the inv\_ep\_debug option, so that when the Inventory scan runs

on the endpoint, a log file called INVxxxxx.LOG (where xxxxx is the scan\_id) is created under the inv/SCAN directory.

3. Collect under the inv/SCAN directory the file INVxxxxx.LOG, and under the product directory specified in the MOBILE section mentioned in step 2 the trace files \*.trc, and under the working directory the epsp.cat file. Collect the cit.ini file, which can be found under the %WINDIR% directory on Windows or the /etc/Tivoli directory on UNIX.

#### **APAR IY96992**

In Appendix E "Troubleshooting" section "Common Inventory Technology traces" modify the following information:

The current path under "On Windows systems" should be replaced with:

C:/Program Files/ibm/tivoli/common/CIT/logs/traceCIT.log

The current path under "On UNIX systems" should be replaced with:

/usr/ibm/tivoli/common/CIT/logs/traceCIT.log

#### **APAR IY99115**

In Appendix B "Commands" section "winvmigrate" subsection "examples" replace:

winvmigrate -c C:\temp\ITLM22ForIBM\_SoftwareCatalog\_2006-06-30.xml

with:

winvmigrate -c C:\temp\IBM\_SoftwareCatalog.xml

#### **APAR IY99115**

In Chapter 5 "Collecting custom information with Inventory" section "Using signatures" replace the current instructions at the end of the section with the following instructions:

- Navigate to <http://www.ibm.com>
- Select "Support and downloads"
- Select "Software"
- Select "Download"
- In the search bar enter "Software Signature Catalog"
- Search for the most recent
  - Software Catalog YYYY-MM-DD for ITLM, version 2.2/2.3 - All Software **or**
  - Software Catalog YYYY-MM-DD for ITCM 4.2.3 Fixpack 2 and Higher **or**
  - Software Catalog 2007-05-31 for Inventory

**Note:** This last catalog is in the old INI format.

#### **APAR IY99115**

In Chapter 5 "Collecting custom information with Inventory" section "Using signatures" add at the end of the section the following new information:

From the following FTP Web site

[ftp://ftp.software.ibm.com/software/tivoli\\_support/misc/Cand0/TivoliCatalog/](ftp://ftp.software.ibm.com/software/tivoli_support/misc/Cand0/TivoliCatalog/)

you can download the following catalog files:

- ITLM22\_SoftwareCatalog\_YYYY-MM-DD.xml
- YYMMDDSWSIG.S.INI

- ITLM22ForIBM\_SoftwareCatalog\_YYYY-MM-DD.xml
- IBMUseOnlySoftwareCatalog\_YYYY-MM-DD.xml
- IBMSoftwareCatalog\_YYYY-MM-DD.xml

**Note:** The files that can be used by Tivoli Configuration Manager are:

- ITLM22\_SoftwareCatalog\_YYYY-MM-DD.xml
- YYMMDDSWSIG.S.INI

The other files are for Tivoli License Manager only.

Since June 2007 the new naming convention of these files is the following:

- itlcm22-ibmProducts-fullSwCat-YYYYMMDD.xml
- itlcm22-allProducts-fullSwCat-YYYYMMDD.xml
- itlcm21-ibmProducts-fullSwCat-YYYYMMDD.xml
- itlcm21-allProducts-fullSwCat-YYYYMMDD.xml
- inventory-allProducts-fullSwCat-YYYYMMDD.ini

**Note:** The files that can be used by Tivoli Configuration Manager are:

- itlcm22-allProducts-fullSwCat-YYYYMMDD.xml
- inventory-allProducts-fullSwCat-YYYYMMDD.ini

The other files are for Tivoli License Manager only.

#### **APAR IZ13447**

In Appendix B "Commands" in section "**winvmgr**" add the following command parameter when describing the **-c** option:

**PM\_WSUS\_enabled=y | n**

Specifies if you want to use the Microsoft WSUS Server for the Automated Patch Management solution provided by Tivoli Configuration Manager.

#### **Defect 59750**

In Appendix E "Installing and uninstalling Common Inventory Technology (CIT)" in section "Installing Common Inventory Technology (CIT)" replace the current step 5 of the procedure with the following information:

On the Inventory server, run the following command:

```
winstsp -f -ty @CIT. 2.6.0 @Endpoint:ep1
wcommstsp -f @CIT. 2.6.0 @Endpoint:ep1
```

where:

**ep1** Is the name of the endpoint.

**Note:** This installation method is not supported on OS/400 systems.

### **Database Schema Reference**

This section contains new and updated information for *IBM Tivoli Configuration Manager Database Schema Reference*:

#### **Defect 202144**

In Chapter 3 "Configuration repository views", in the "Inventory views" section, at the end of the MATCH\_SWARE\_VIEW description add the following note:

The extended signatures are not displayed by the MATCH\_SWARE\_VIEW, while they are displayed by the INST\_SWARE\_VIEW.

#### APAR IY95425

In Chapter 5 "Configuration repository tables", in the "Inventory tables" section, at the end of the FILE\_DESC table description add the following note:

The following columns:

FILE\_COMMENTS  
FILE\_INTERNAL\_NAME  
FILE\_PRODUCT\_NAME  
FILE\_COMPANY\_NAME  
FILE\_LEG\_COPYRIGHT  
FILE\_PROD\_VERSION  
FILE\_DESCRIPTION  
FILE\_LEG\_TRADEMARK  
FILE\_PRIVATE\_BUILD  
FILE\_VERSION  
FILE\_ORIG\_FILENAME  
FILE\_SPECIAL\_BUILD

are populated only by data coming from scans run against pervasive devices.

#### Feature 205561

In Chapter 3 "Configuration repository views" in section "LPAR\_VIEW" check all the Windows NT/2000 columns of the table and add the following note after the table:

**Note:** For these operating systems, on a VMware environment, you must run the CIT enabler on the host server after starting the guest workstation and before running the scan.

#### Feature 205561

In Chapter 3 "Configuration repository views" in section "LOGICAL\_PARTITIONS\_VIEW" check all the Windows NT/2000 columns of the table and add the following note after the table:

**Note:** For these operating systems, on a VMware environment, you must run the CIT enabler on the host server after starting the guest workstation and before running the scan.

#### Feature 205561

In Chapter 3 "Configuration repository views" in section "LPAR\_SYSTEMS\_VIEW" check all the Windows NT/2000 columns of the table and add the following note after the table:

**Note:** For these operating systems, on a VMware environment, you must run the CIT enabler on the host server after starting the guest workstation and before running the scan.

#### Feature 205563

In Chapter 5 "Configuration repository tables" section "Inventory tables" add the following new subsection:

##### ALL\_NET\_ADAPTER

Describes the physical and virtual network adapter installed on a system. One record exists for each network adapter for each system scanned.

Populated by an inventory hardware scan.

The columns in this table are as follows:

COMPUTER\_SYS\_ID (primary key)

ADAPTER\_ID (primary key)  
PERM\_MAC\_ADDR  
CURRENT\_ADDR  
ADAPTER\_TYPE  
ADAPTER\_MODEL  
MANUFACTURER  
INST\_DATE  
RECORD\_TIME

**Feature 205563**

In Chapter 4 "Queries" section "Inventory queries" add the following new subsection:

**ALL\_NET\_CARD\_QUERY**

Returns information about network cards on target systems.

Runs against the view ALL\_NET\_CARD\_VIEW.

The columns in this query are as follows:

TME\_OBJECT\_LABEL  
TME\_OBJECT\_ID  
COMPUTER\_SYS\_ID  
ADAPTER\_ID  
PERM\_MAC\_ADDR  
CURRENT\_ADDR  
ADAPTER\_TYPE  
ADAPTER\_MODEL  
MANUFACTURER  
INST\_DATE  
RECORD\_TIME

**Feature 205563**

In Chapter 4 "Queries" section "Historical inventory queries" add **H\_ALL\_NET\_CARD\_QUERY** to the existing list.

**Feature 205563**

In Chapter 3 "Configuration repository views" in section "Inventory views" add the following new subsection:

**ALL\_NET\_CARD\_VIEW**

Displays information about physical and virtual network cards on target systems.

Based on the COMPUTER and ALL\_NET\_ADAPTER tables.

The columns in this view are as follows:

Column Name	Description	AIX	HP-UX	Linux (S/390)	Linux (PC)	NetWare	OS/2	OS/400	Solaris	Windows 98	Windows NT/2000
TME_OBJECT_LABEL	The object label for the system.	✓	✓	✓	✓		✓		✓	✓	✓
TME_OBJECT_ID	The object ID for the system.	✓	✓	✓	✓		✓		✓	✓	✓
COMPUTER_SYS_ID	The computer system ID.	✓	✓	✓	✓		✓		✓	✓	✓
ADAPTER_ID	The unique ID of the adapter.	✓	✓	✓	✓		✓		✓	✓	✓
PERM_MAC_ADDR	The permanent media access control (MAC) address for the system.	✓	✓		✓				✓	✓	✓
CURRENT_ADDR	The current network address for the system.	✓	✓		✓				✓	✓	✓
ADAPTER_TYPE	The network adapter installed on the system.	✓	✓	✓	✓					✓	✓
ADAPTER_MODEL	The model of the network adapter installed on the system.	✓		✓	✓		✓		✓	✓	✓
MANUFACTURER	The manufacturer of the network adapter installed on the system.						✓		✓	✓	✓
INST_DATE	The date that the network card was installed on the system.								✓		<sup>w</sup>
RECORD_TIME	The time that the data was updated at the database.	✓	✓	✓	✓		✓		✓	✓	✓
<sup>w</sup> Reported only on systems with WMI.											

### Feature 205563

In Chapter 3 "Configuration repository views" in section "Historical inventory views" add **H\_ALL\_NET\_CARD\_VIEW** to the existing list.

### APAR IY97995, IY97996

In Chapter 3 "Configuration repository views" in section "Inventory views" before the subsection called "ASP\_VIEW" add the following new note:

**Note:** Some views, created by the .sql scripts, such as CAT\_SIG\_V and CHECK\_SIG are not described in this manual because they are used for product internal tasks only, and do not apply to an external user.

### APAR IY97094

In Chapter 5 "Configuration repository tables" at the end of the "SIGNATURE" section add the following note:

**Note:** The possible values for the IBM\_SOURCE key are:

#### CUSTOM

A signature you created.

**IBM** A signature loaded from the IBM signature catalog.

**SWD** A signature created by the Tivoli Configuration Manager Software Distribution.

**APAR IY97190**

In Chapter 3 "Configuration repository views" section "COMPUTER\_VIEW" insert a row in the existing table having as column name OS\_KERNEL\_MODE, as description "The operating system kernel mode (32-bit or 64-bit)" and check all operating systems except for OS/2, NetWare, OS/400 and Linux (pc).

**APAR IY97190**

In Chapter 4 "Queries" section "COMPUTER\_QUERY" add OS\_KERNEL\_MODE to the existing list.

**APAR IY97190**

In Chapter 5 "Configuration repository tables" section "COMPUTER" add OS\_KERNEL\_MODE to the existing list.

**APAR IZ11361**

In Chapter 3 "Configuration repository views", in the "PROCESSOR\_VIEW" section, add the following row to the current table:

**Column Name**

IS\_ENABLED

**Description**

The enablement of the processor. Possible values are:

Y The processor is enabled.

N The processor is not enabled.

H (Windows platforms only) The hyperthreading feature is enabled.

and check all operating systems listed in the table.

**APAR IZ14763**

In Chapter 5 "Configuration repository tables", before the "INST\_PARTITION" section, add the following table:

**INST\_PARTITION\_MB**

Describes a disk partition on a drive on the system. One record exists for each partition for each system scanned.

Populated by an inventory hardware scan.

The columns in this table are as follows:

COMPUTER\_SYS\_ID (primary key)

FS\_ACCESS\_POINT (primary key)

DEV\_NAME

PARTITION\_TYPE

MEDIA\_TYPE

PHYSICAL\_SIZE\_MB <sup>(1)</sup>

FS\_TYPE

FS\_MOUNT\_POINT

FS\_TOTAL\_SIZE\_MB <sup>(1)</sup>

FS\_FREE\_SIZE\_MB <sup>(1)</sup>

RECORD\_TIME



**Note:** <sup>(1)</sup> The size values of these columns are specified in megabytes.

#### APAR IZ14763

In Chapter 3 "Configuration repository views", before the "PARTITION\_VIEW" section, add the following view:

#### PARTITION\_MB\_VIEW

Displays information about disk partitions on target systems.

Based on the COMPUTER and INST\_PARTITION\_MB tables.

The columns in this view are as follows:

Column Name	Description	AIX	HP-UX	Linux (S/390)	Linux (PC)	NetWare	OS/2	OS/400	Solaris	Windows 98	Windows NT/2000
TME_OBJECT_LABEL	The object label for the system.	✓	✓	✓	✓		✓	✓	✓	✓	✓
TME_OBJECT_ID	The object ID for the system.	✓	✓	✓	✓		✓	✓	✓	✓	✓
COMPUTER_SYS_ID	The computer system ID.	✓	✓	✓	✓		✓	✓	✓	✓	✓
FS_ACCESS_POINT	The location where the partition is mounted.	✓	✓	✓	✓		✓	✓	✓	✓	✓
DEV_NAME	The device name.	✓	✓	✓	✓		✓	✓	✓	✓	✓
PARTITION_TYPE	The type of partition on the drive.	✓	✓	✓	✓		✓	✓	✓	✓	✓
MEDIA_TYPE	The media type that contains the partition.	✓	✓	✓	✓		✓	✓	✓	✓	✓
PHYSICAL_SIZE_MB	The size of the drive that contains the partition in MB.	✓	✓	✓	✓		✓	✓	✓	✓	✓
FS_TYPE	The file system type.	✓	✓	✓	✓		✓	✓	✓	✓	✓
FS_MOUNT_POINT	The point where the partition attaches to the operating system.	✓	✓	✓	✓		✓	✓	✓	✓	✓
FS_TOTAL_SIZE_MB	The size of the partition in MB.	✓	✓	✓	✓		✓	✓	✓	✓	✓
FS_FREE_SIZE_MB	The amount of free space on the partition in MB.	✓	✓	✓	✓		✓	✓	✓	✓	✓
RECORD_TIME	The time that the data was updated at the database.	✓	✓	✓	✓		✓	✓	✓	✓	✓

#### APAR IZ14763

In Chapter 4 "Queries", before the "PARTITION\_QUERY" section, add the following query:

#### PARTITION\_MB\_QUERY

Returns information about disk partitions on target systems.

Runs against the view PARTITION\_MB\_VIEW.

The columns in this query are as follows:

TME\_OBJECT\_LABEL

TME\_OBJECT\_ID

COMPUTER\_SYS\_ID  
 FS\_ACCESS\_POINT  
 DEV\_NAME  
 PARTITION\_TYPE  
 MEDIA\_TYPE  
 PHYSICAL\_SIZE\_MB  
 FS\_TYPE  
 FS\_MOUNT\_POINT  
 FS\_TOTAL\_SIZE\_MB  
 FS\_FREE\_SIZE\_MB  
 RECORD\_TIME

**Feature 221408**

In Chapter 5. Configuration repository tables in section "LPAR" add the following columns to the current table:

- PHYS\_SHAREDPC
- PHYS\_SHAREDPC\_CORES
- LPAR\_ONLINE\_VP\_COUNT
- LPAR\_IS\_SHARED\_TYPE
- LPAR\_IS\_CAPPED
- LPAR\_ENTITLEMENT
- LPAR\_MIN\_VP\_COUNT
- LPAR\_MAX\_VP\_COUNT
- LPAR\_MIN\_CAPACITY
- LPAR\_MAX\_CAPACITY
- LPAR\_IDLE\_CP\_WEIGHT
- SMT\_IS\_ENABLED
- NODE\_ACT\_PROC\_COUNT

**Feature 221408**

In Chapter 3. Configuration repository views in section "LPAR\_VIEW" add the following rows to the current view:

Column Name	Description	AIX	HP-UX	Linux (S/390)	Linux (PC)	NetWare	OS/2	OS/400	Solaris	Windows 98	Windows NT/2000
PHYS_SHAREDPC	The physical shared pool capacity.	✓									
PHYS_SHAREDPC_CORES	The physical shared pool capacity in cores.	✓									
LPAR_ONLINE_VP_COUNT	The number of online virtual processors in the partition.	✓									

Column Name	Description	AIX	HP-UX	Linux (S/390)	Linux (PC)	NetWare	OS/2	OS/400	Solaris	Windows 98	Windows NT/2000
LPAR_IS_SHARED_TYPE	If the partition runs on a shared pool of processors, then the value of the field is Y. Otherwise the partition is dedicated and the field value is N.	✓									
LPAR_IS_CAPPED	If partition is of a shared type and is marked as capped, then the field gets the value Y. In other cases it is N or empty as in the case of dedicated partition.	✓									
LPAR_ENTITLEMENT	The current entitlement of the partition, such as the number of processing units that the partition is guaranteed to get if it needs them.	✓									
LPAR_MIN_VP_COUNT	The minimum virtual processor setting for the partition.	✓									
LPAR_MAX_VP_COUNT	The maximum virtual processor setting for the partition.	✓									
LPAR_MIN_CAPACITY	The minimum capacity for the partition.	✓									
LPAR_MAX_CAPACITY	The maximum capacity for the partition.	✓									
LPAR_IDLE_CP_WEIGHT	The idle capacity weight setting for the partition, such as the priority of the partition when idle CPU resources are distributed among partitions.	✓									
SMT_IS_ENABLED	The SMT (Simultaneous Multithreading) status in the partition. If SMT is enabled the field is Y; if SMT is disabled it is N.	✓									
NODE_ACT_PROC_COUNT	The number of physical CPUs that are licensed and active in the system. For IBM partitioned systems, it is the total of dedicated processors and shared processors.	✓									

**APAR IZ29297**

In Chapter 4. Queries in section "LOGICAL\_PARTITIONS\_QUERY" add the following columns to the current query:

- LPARCAP\_IN\_CORES
- NODECAP\_IN\_CORES
- SHAREDPC\_IN\_CORES

**APAR IZ29297**

In Chapter 3. Configuration repository views in section "LOGICAL\_PARTITIONS\_VIEW" add the following rows to the current view:

Column Name	Description	AIX	HP-UX	Linux (S/390)	Linux (PC)	NetWare	OS/2	OS/400	Solaris	Windows 98	Windows NT/2000
LPARCAP_IN_CORES	The number of processor cores assigned to the partition.	✓	✓		✓ <sup>1</sup>				✓		✓ <sup>1</sup>
NODECAP_IN_CORES	The number of processor cores in the system (node).	✓	✓		✓ <sup>1</sup>				✓		✓ <sup>1</sup>
SHAREDPC_IN_CORES	Total number of processor cores available in the shared pool.	✓			✓ <sup>1</sup>				✓		✓ <sup>1</sup>

**Note:** <sup>1</sup> For these operating systems, on a VMware environment, it is required to run the CIT enabler on the host server after starting the guest workstation and before running the scan.

**APAR IZ45160**

In Chapter 4. Queries in section "PARTITION\_MB\_QUERY" add the following note to the column named FS\_FREE\_SIZE\_MB:

**Note:** The value of this column for Windows platforms might report a value bigger than the total disk size, because it is the value returned by the Microsoft WMI layer.

**APAR IZ45160**

In Chapter 4. Queries in section "PARTITION\_QUERY" add the following note to the column named FS\_FREE\_SIZE\_KB:

**Note:** The value of this column for Windows platforms might report a value bigger than the total disk size, because it is the value returned by the Microsoft WMI layer.

**APAR IZ45160**

In Chapter 5. Configuration repository tables in section "INST\_PARTITION\_MB" add the following note to the column named FS\_FREE\_SIZE\_MB:

**Note:** The value of this column for Windows platforms might report a value bigger than the total disk size, because it is the value returned by the Microsoft WMI layer.

#### APAR IZ45160

In Chapter 5. Configuration repository tables in section in section "INST\_PARTITION" add the following note to the column named FS\_FREE\_SIZE\_KB:

**Note:** The value of this column for Windows platforms might report a value bigger than the total disk size, because it is the value returned by the Microsoft WMI layer.

### Patch Management Guide

This section contains new and updated information for *IBM Tivoli Configuration Manager Patch Management Guide*:

In Chapter 2 "Installing the automated patch management solution", in the "Upgrading the Patch Management Automation Server driver" section, replace step 6 with the following text:

- Create the tcm-dcm\_xx.xml file by running the bash `$TIO_HOME/xml/xml_update.sh` command from a Windows command prompt. The tcm-dcm\_xx.xml file is created, where the xx value depends on the level of fix pack you are installing.

**Note:** To determine which XML file to use run the following command from a command prompt:

```
ls -la "$TIO_HOME"/xml
```

In Chapter 7 "Troubleshooting", at the end of the "Other common problems" section, add the "Wrong code set" sub-section:

**Cause:** If you are defining a name for a group, a patch, or any other object, containing a character code set that is not defined in the Tivoli environment, the character is not displayed correctly in the name.

**Solution:** Set the TIS\_CODESET variable to the appropriate code set as follows:

1. Copy the Tivoli environment settings to a temporary file:

```
odadmin environ get >env.out
```

2. Add the following line to the temporary file:

```
TIS_CODESET = TIS_CODESET
```

where *TIS\_CODESET* is the new value of the code set.

3. Import the new TIS\_CODESET setting value in the Tivoli environment:

```
odadmin environ set < env.out
```

4. Stop and start the Tivoli server:

```
reexec oserv all
```

#### APAR IY98107

In Chapter 1 "Introduction" in section "Planning your environment" modify the table called "Patch tools" as follows:

At the end of the wsusscn2.cab description add the following note:

**Note:** The wsusscn2.cab file is renamed as wsuscan.cab during the download process. After updating the catalog with the new wsusscn2.cab file, verify if the date of the wsuscan.cab file matches the size and date of the new wsusscn2.cab file.

**Defect 59014**

In Chapter 3 "Configuration and administrative tasks" in section "Configuring automated patch management settings" add the following information:

At the end of the **Add tioadmin login** description add the following note:

**Note:** Ensure that the tioadmin user is allowed to write to the following product directories:

- product\_dir
- provider\_patch\_dir
- provider\_spb\_dir

This is valid only if these directories are local.

**Defect 59003**

In Chapter 1 "Introduction" in section "Operating systems and applications managed with this solution" replace the current bullet:

- Windows Vista (valid for fix pack 3)

with the following information:

- Windows Vista (valid for fix pack 3 or later fix packs using WSUS server 2.1)

**APAR IZ01645**

In Chapter 7 "Troubleshooting" in section "Common problems and troubleshooting scenarios" add at the end of the subsection called "Other common problems" the following information:

**Windows Update Agent (WUA) does not work properly**

For the Microsoft Windows Update Agent (WUA) to work properly, ensure that the following Windows services are enabled and set to Automatic:

- Automatic Updates
- Background Intelligent Transfer Service (BITS)

In addition, for the WUA to receive necessary updates from other Microsoft products, ensure that Windows Installer 3.1 is installed.

**Defect 59751**

In Chapter 6 "Automated patch management command line" in section "**wsecgensp**" add the following information to the "Options" subsection:

- H 9** Specifies whether software packages are generated using the installer for Windows 2008 and Windows Vista. If this option is not specified or if you enter a value different from 9, the packages are created using the default installer.

and add to the current usage of the command the following information:  
[-H 9]

**APAR IZ13447**

In Chapter 3 "Configuration and administrative tasks" in section "Configuring automated patch management settings" add the following information at the end of the section:

**winvmgr command**

Specify if you want to use the Microsoft WSUS Server for your patch management operations by running the following Inventory command:

```
winvmgr -c PM_WSUS_enabled=y
```

#### **Defect 59810**

In Chapter 1 "Introduction" in section "Operating systems and applications managed with this solution" add to the current list the following bullets:

- Windows Server 2008 Standard (ix86 only)
- Windows Server 2008 Enterprise (ix86 only)

and add after the bulleted list the following note:

**Note:** No operating system patches are supported for Windows Server 2008, only patches related to software applications.

### **User's Guide for Operating System Deployment Solution**

This section contains new and updated information for *IBM Tivoli Configuration Manager User's Guide for Operating System Deployment Solution*:

In Chapter 1 "Overview", in the "Components of an operating system imaging solution" section, replace the note under the **IBM Tivoli Provisioning Manager for Operating System Deployment server at Spoke level** description with the following:

**Note:** The IBM Tivoli Provisioning Manager for Operating System Deployment server at Spoke level must be a managed node and endpoint. The config.csv file contains a line for the IBM Tivoli Provisioning Manager for Operating System Deployment server at Spoke level. The "Description" field of this line must contain a name equal to the label of the endpoint installed on the IBM Tivoli Provisioning Manager for Operating System Deployment server at Spoke level.

In Chapter 2 "Planning and installing your environment", at the end of the "Configuring the Rembo.ini file" section, add the following information:

After you customized the rembo.ini file, you must stop and start the Activity Planner engine by running the following commands from the Tivoli server bash shell:

```
wstopapm  
wstartapm
```

In Chapter 2 "Planning and installing your environment", in the "Installation requirements for Tivoli Provisioning Manager for Operating System Deployment" section, after the "Server system requirements information", add the following information:

#### **Operating System Requirements:**

The Tivoli Provisioning Manager for Operating System Deployment servers must be installed on Windows platforms only.

In Chapter 2 "Planning and installing your environment", in the "How to set up Tivoli Provisioning Manager for Operating System Deployment" section, change the text as follows:

- Add the following step before step 6:

Configure the **Rembo Server** service to run logged on as a user that is a member of the Windows Administrators group, and that has one of the following Tivoli authorization roles:

- super
- senior

- Replace step 5 with the following step description:  
Customize the config.csv file according to the guidelines described in:  
[http://www-1.ibm.com/support/docview.wss?rs=3176&context=SS3HLM&q1=config.csv&uid=swg21247013&loc=en\\_US&cs=utf-8&lang=en](http://www-1.ibm.com/support/docview.wss?rs=3176&context=SS3HLM&q1=config.csv&uid=swg21247013&loc=en_US&cs=utf-8&lang=en)  
and store a copy in the directory you created in the previous step for all the Tivoli Provisioning Manager for Operating System Deployment servers in your production environment.
- After step 6 add the following step:  
Stop and start the **Rembo Server** service to load the customized config.csv file.

In Chapter 2 "Planning and installing your environment", in the "Requirements for the installation" section, replace the link in step 1 with the following:

<http://www.microsoft.com/downloads/details.aspx?familyid=0CAA294C-29D9-4449-81D5-4B69B97DF7AE&displaylang=en>

In Chapter 4, "Generating differential Tivoli Provisioning Manager for Operating System Deployment files", in the "Step 1: Generating the Differential RAD activity plan:" sub-section, modify step 3 as follows:

Enter a RAD file name that does not include special characters. This is because the **Update Slaves** activity passes the file name to a Tivoli bash script and the Tivoli bash does not support special characters.

In Chapter 4 "Implementing the operating system imaging solution", in the "Backing up user settings" section, replace the first two bullets under step 3 with the following:

- In the **Repository information** fields, define the location and access credentials for the repository where the user settings are to be backed up. It is recommended that you define a network drive as repository location. An example of repository location is the following:  
`\\128.143.71.21\shared_directory_name\repository_directory.`

**Note:** If a plan that includes the backup activity is defined and imported using an XML file, the password must be specified using the XML tags:

- RepClearPassword
- LocClearPassword

When these tags are used, the specified passwords are recognized as unencrypted values and are encrypted during the import process.

- In the **Local user information** fields, define the target workstation user credentials for accessing the network.

In Chapter 4 "Implementing the operating system imaging solution", in the "Refreshing a workstation" section, replace the first two bullets under step 3 with the following:

- In the **Repository information** fields, define the location and access credentials for the repository where the endpoint information is to be backed up. It is recommended that you define a network drive as repository location. An example of repository location is the following:  
`\\128.143.71.21\shared_directory_name\repository_directory.`



- In the **Local user information** fields, define the target workstation user credentials for accessing the network.

In Chapter 4 "Implementing the operating system imaging solution", in the "Refreshing a workstation" section, replace the first two bullets under step 3 with the following:

- In the **Repository information** fields, define the location and access credentials for the repository where the user settings are backed up. It is recommended that you define a network drive as repository location. An example of repository location is the following: `\\128.143.71.21\shared_directory_name\repository_directory`.

**Note:** If a plan that includes the restore activity is defined and imported using an XML file, the password must be specified using the XML tags:

- `RepClearPassword`
- `LocClearPassword`

When these tags are used, the specified passwords are recognized as unencrypted values and are encrypted during the import process.

- In the **Local user information** fields, define the target workstation user credentials for accessing the network.

## Guide for Microsoft Active Directory Integration

This section contains new and updated information for *IBM Tivoli Configuration Manager Guide for Microsoft Active Directory Integration*:

### APAR IY93326

In Chapter 6. Query Directory for Microsoft Active Directory command line in sections named "**wadquerydc**", "**wadquerycfg**", and "**wadqueryrep**", add the following information to the "Authorization" subsection:

#### Domain administrator

For issuing the `logon_user` option of the command.

## Tivoli Integration Pack for NetView User's Guide

This section contains new and updated information for *IBM Tivoli Integration Pack for NetView User's Guide*:

### APAR IY92481

In Chapter 3, in the "Configuring Tivoli Discovery" section, add the following sentence at the end of the existing note:

The NetView database and the Tivoli Report are updated only with those resources having the transport protocol set to `AF_INET`.

## Messages and Codes

This section contains new and updated information for *IBM Tivoli Configuration Manager Messages and Codes*:

### Defect 55666

**CMYSE0265E** You cannot create the software package because the SWD-Inventory integration is currently disabled.

**Explanation:** The command you are using requires integration with Inventory.

**System action:** The operation failed.

**Operator response:** If inventory integration is required, use the `wswdmgr` software distribution command and the `wsetinvswd` Inventory command to enable integration. See: *IBM Tivoli Configuration*

## Defect 55824

**DISSE0624E** An error occurred contacting the managed node '*managed node*'. Make sure the managed node is defined as a gateway or stand-alone repeater and is working properly.

**Explanation:** See message.

**System action:** The install operation failed.

**Operator response:** Ensure you defined the source host as a Tivoli gateway or a repeater. Check that the Tivoli gateway or the repeater is running. See the **wrpt** or **wgateway** commands in the *Tivoli Management Framework: Reference Manual*, GC32-0806.

## Defect 59754/59755

The message text for the **DISSE0330E** error message has been modified as follows:

DISSE0330E Remove operation for targets having a different package state in the Inventory database is not allowed if the force option is not set. You can use the ignore option to skip the not installed targets if you disable the remove\_not\_installed by running  
wswdcfg -s disable\_remove\_not\_installed=y.

The current explanation for the **CMW0007E** error message has been modified as follows:

One of the steps you performed during the silent installation has failed.

The current operator response for the **CMW0007E** error message has been modified as follows:

See the upper sections of this log file to determine the nature of the error.  
Correct the error and try the operation again.

## Release Notes

This section contains new and updated information for *IBM Tivoli Configuration Manager Release Notes*:

### APAR IY81403

In the section "Supported Databases" the following paragraph should be added at the end of the section:

The "temporary tables" feature does not apply to Sybase and Informix, because these two RDBMS databases do not clean up the contents of a temporary table after the commit operation, but only after releasing the session to the database. You can therefore receive the following error message, which might cause a performance decrease:

Sybase Server Error: Msgno 3621 Level 10 State 0  
Command has been aborted.

### APAR IY90442

In Chapter 2 "Installation and Upgrade Notes", in the "Supported operating systems" section, the table "Supported operating systems by administrative interfaces and endpoint" should be modified as follows:

- Two new columns under the header "Endpoint" should be added.
- The columns should contain "Software Distribution" and "Inventory scan" respectively.
- Under both columns all the platforms listed below in the table should be marked with an "X".

### APAR IZ01088

In Chapter 3 "Software limitations, problems, and workarounds", in section "Automated Patch Management" add the following limitation:

The Windows Server Update Services (WSUS) server version 3.0 is not supported. Use the WSUS server version 2.1.

## Software Package Editor online help

This section contains new information for the Software Package Editor online help:

### Feature 55186

The following is the help panel for the Logoff Properties dialog box:

Use this dialog box to specify whether you want a logoff operation to be performed on Windows endpoints and to define the settings for the logoff operation. You can select one or more of the following options:

#### Logoff during install

The logoff operation is performed during the during\_install phase.

#### Logoff during undo

The logoff operation is performed during the during\_undo phase.

#### Logoff during remove

The logoff operation is performed during the during\_remove phase.

#### Logoff during commit

The logoff operation is performed during the during\_commit phase.

**Force** The logoff operation is forced also if any applications are currently active on the workstation.

#### Force if locked

The logoff operation is forced if the workstation is locked.

For more information on defining conditions, see the Conditions help panel.

### Defect 55461

The **Maintain existing value** check box has been added to the Add Directory Properties and Add File Properties dialogs. The following is the help panel for this check box:

Select this check box to maintain the file or directory access attributes and the ownership if the file or directory already exists on the target. If the file or directory does not exist, the check box selection has no effect, and the default value (**Use system value** check box), or the ones that you selected, are assumed.

## Man page missing updates

This section provides information about commands that have been added or changed but for which new man pages are not available.

### Software distribution

- wswdcfg
- waccptsp
- wcommtsp
- winstsp
- wremovsp
- wspmvdta
- wswdmgr
- wundosp

- wversp

The changes to these commands are documented in the *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution*.

#### **Activity Planner**

- wsubpln

The changes to this command are documented in the *IBM Tivoli Configuration Manager: User's Guide for Deployment Services*.

#### **Inventory**

wcollect wepscan winvdeps winvmgr winvmigrate winvpackage winvsig  
wloadiso wsetinvpchw wsetinvswd wsetinvunixhw

- wcollect
- wepscan
- winvdeps
- winvmgr
- winvmigrate
- winvpackage
- winvsig
- wloadiso
- wsetinvpchw
- wsetinvswd
- wsetinvunixhw

The changes to these commands are documented in the *IBM Tivoli Configuration Manager: User's Guide for Inventory*.

#### **License Manager Extension**

The License Manager Extension changes the **winvsig** command and introduces the following new commands:

- wtlmdh
- wtlmhandler
- wtlminfoget

The new and changed commands are documented in *Configuration Manager: License Manager Extension*

#### **Microsoft Active Directory Integration**

Microsoft Active Directory Integration introduces the following new commands:

- wadquerydc
- wadquerycfg
- wadqueryrep

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## Notices

Table 89. Revisions

Created/Revised by	Creation/Update	Summary of Changes
ITCM L3	20090920	Document created
ITCM L3	20091020	<p>APAR IZ63382:</p> <p>The following directories are missing in the 4.2.3-TIV-TCM-FP0009_images.tar:</p> <ul style="list-style-type: none"><li>• dii</li><li>• dla</li><li>• xml</li><li>• non_ibm_license</li><li>• notices</li><li>• CIT_SPB</li><li>• cit_enabler</li></ul> <p>This causes the failure of the following fix pack installation scenarios:</p> <ul style="list-style-type: none"><li>• TCM DLA</li><li>• SPB package installation</li><li>• Install CIT from TCM server instead of using the dependency set mechanism</li><li>• Deployment of cit_enabler</li></ul>

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