

IBM Tivoli Configuration Manager



Readme File for Fix Pack 5 - PTF U812494

Version 4.2.3

Note

Before using this information and the product it supports, read the information in “Notices” on page 91.

First Edition, September 2007

This edition applies to fix pack 5 (PTF U812494) 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-FP0005 (PTF U812494)

This readme file provides important information about Fix Pack 5 (PTF U812494) 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 2.4.1003 (build level 20070829v2.4).

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

About this release

This section includes the following topics:

- “CD-ROM structure”
- “Manuals updated in previous fix packs” on page 3
- “Enhancements” on page 3
- “Product compatibility” on page 16
- “Limitations” on page 16
- “Product fix history” on page 18

CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 5 includes *three* CD-ROMs as detailed in the following tables:

Table 1. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 5 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 CIT scan on VMware environments.
/CIT_SPB	Software package block (SPB) files used to upgrade the CIT component to version 2.4.1003.
/images/INVENTORY	Images required for Inventory fix pack.
/images/MCOLLECT	Images required for the Scalable Collection Services fix pack.
/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.

Table 1. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 5 CD 1 (continued)

Directory or path	Contents
/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 file required to install Tivoli Provisioning Manager for Operating System Deployment.

Table 2. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 5 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 3.
/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 64.
/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 5 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 previous fix packs, interim fixes, and the current fix pack.

- "New features in this fix pack" on page 4
- "New features in the previous fix packs and interim fixes" on page 4

New features in this fix pack

The following enhancements have been introduced in this fix pack:

Table 4. Customer enhancement request references

	Enhancement	Reference
Inventory	Collect real and virtual network adapters	205563
	VMware host serial number	205720
	Collect LPAR information in a VMware environment	205561

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.

New features in the previous fix packs and interim fixes

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

Table 5. Customer enhancement request references

	Enhancement	Reference
New component	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	
New platform	Solaris x86 support	
New Endpoint support	Windows Vista support	

Table 5. Customer enhancement request references (continued)

	Enhancement	Reference
APM	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
Inventory	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
CCM	Stop on failure check box	
Patch Management	Emergency patch management	56053
	Patch Management deployment paradigm	56053
	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

Table 5. Customer enhancement request references (continued)

	Enhancement	Reference
Software distribution	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
Tivoli Web Gateway	Nokia s60 devices support	
	Nokia 9300i devices support	

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 53.

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 66.

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 /JarVersion folder in IBM Tivoli Configuration Manager, Fix Pack 4.2.3-TCM-FP01.

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 66.

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, `mrmmbios.exe`, substitutes the 16 bit scanner - Feature 180357

With this feature the Windows 64-bit platforms support has been extended. The old 16-bit `mrmmbios.exe` file has been now replaced by a 32-bit file having the same name, and using new device drivers. The new `mrmmbios.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 64 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

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 /packages path.

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-FP0005 was tested using:

- Tivoli Management Framework, Version 4.1.1 plus the following interim fixes:
 - 4.1.1-LCF-0049 to be installed on the Tivoli gateways.
 - 4.1.1-TMF-0091 to be installed on the managed nodes with JRIM and JCF components installed.
 - 4.1.1-TMF-0090 to be installed on Tivoli servers, managed nodes, and gateways.
- Tivoli Management Framework interim fix 4.1.1-TMF-0075LA to be installed on Tivoli servers and managed nodes with JAVA components installed.
- Tivoli Provisioning Manager for Software, version 5.1
- Tivoli Provisioning Manager for Operating System Deployment , version 5.1 plus fix pack 1
- The license management extension for IBM Tivoli Configuration Manager version 4.2.3 fix pack 5 can be implemented using one of the following supported releases:
 - IBM Tivoli License Compliance Manager, Version 2.2 plus fix pack 3.
 - IBM Tivoli License Compliance Manager, Version 2.3 plus fix pack 2.

Limitations

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 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 through 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 no matter 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 since they start with the copyright information that 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 the corresponding error message.

Defect 58916: When a DB2 error occurs on Tivoli Provisioning Manager for Operating System Deployment in 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”
- “Fixes contained in previous fix packs and interim fixes” on page 27

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-FP0005	Inventory, Version 4.2.3
4.2.3-TIV-INVGW-FP0005	Inventory Gateway, Version 4.2.3
4.2.3-TIV-CLL-FP0005	Scalable Collection Service, Version 4.2.3
4.2.3-TIV-SWDSRV-FP0005	Software Distribution, Version 4.2.3
4.2.3-TIV-SWDGW-FP0005	Software Distribution Gateway, Version 4.2.3
4.2.3-TIV-SWDJPS-FP0005	Software Distribution Software Package Editor, Version 4.2.3
4.2.3-TIV-APM-FP0005	Activity Planner, Version 4.2.3
4.2.3-TIV-CCM-FP0005	Change Manager, Version 4.2.3
4.2.3-TIV-WEB-FP0005	Web Interface, Version 4.2.3
4.2.3-TIV-TRMSRV-FP0005	Resource Manager, Version 4.2.3
4.2.3-TIV-TRMGW-FP0005	Resource Manager Gateway, Version 4.2.3
4.2.3-TIV-PMSRV-FP0005	Pristine Manager, Version 4.2.3
4.2.3-TIV-PMG-FP0005	Patch Management, Version 4.2.3
4.2.3-TIV-DQY-FP0005	Directory Query, Version 4.2.3
4.2.3-TIV-ADICLI-FP0005	Query Directory for Microsoft Active Directory - Command Line Interface, Version 4.2.3

Table 6. Fixes included in this fix pack (continued)

Fix pack	Component/Service
4.2.3-TIV-ADIENG-FP0005	Query Directory for Microsoft Active Directory, Version 4.2.3
4.2.3-TIV-TLMEXT-FP0005	CM Extension for Tivoli License Manager, Version 4.2.3
4.2.3-TIV-CMEXT-FP0005	CM Endpoint Extension, Version 4.2.3
4.2.3-TIV-TPOSD-FP0005	Tivoli Provisioning Manager for Operating System Deployment Integration, Version 4.2.3

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

Table 7. APARs and internal defects for Inventory

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

Defect 206186

Abstract:

Implementing **winvsig -o** option to specify the platform.

Error Description:

The **winvsig** command does not accept the platform when you try to load a single signature. With Tivoli Configuration Manager 4.2.3 Fix Pack 2 was added the possibility to specify the operating system platform for a signature. This information is contained in the new XML format signature catalog, but is not contained in the old SWSIGS.INI file. To specify the platform information, a new **-o** option was added to the **winvsig** command. If **-o** is not used, the default value is JVM.

APAR IY94770

Abstract:

INST_PARTITION reports only one mount point for each file system.

Error Description:

INST_PARTITION reports only one mount point for each file system. The current version cannot handle the case of the same file system mounted multiple times on different mount points.

APAR IY97538

Abstract:

Core dump with file scan filters.

Error Description:

After installing Inventory 4.2.3 Fix Pack 3, a core dump occurs with file scan filters.

APAR IY97653

Abstract:

Option for non-subscriber in global properties.

Error Description:

The "Distribution allowed to non-subscribers" attribute (wgetinvglobal -s @InventoryConfig:profile_name) is wrongly updated and set to NO after the installation of Tivoli Configuration Manager 4.2.3 Fix Pack 2.

APAR IY98365**Abstract:**

wscansw process consumes high CPU usage for hours.

Error Description:

Inventory signature scan with the "Executable files only: YES" option selected, takes a long time to complete consuming high CPU usage.

APAR IY99251**Abstract:**

HISTORY_COLUMNS not in the
INV_DB2_MVS_CUSTOM_SCHEMA_423.SQL.

Error Description:

The HISTORY_COLUMNS table is missing from the
inv_db2_mvs_schema_423.sql script, but not from the
inv_db2_mvs_custom_schema_423.sql script. With all database vendors,
after running the 4.2.3 Fix Pack 4 scripts, if you run any query against the
two views MIGR_SWARE_VIEW and MATCHED_SIG_COUNT, an error
occurs.

APAR IY99327**Abstract:**

winvsig -a -f command accepts -t option only for XML catalog files.

Error Description:

The ibm_source value entered using the -t option was not processed when
managing the INI file catalog format.

APAR IY99839**Abstract:**

H_SYS_INSTANCE table has locking issues after installing 4.2.3 Fix Pack 2.

Error Description:

In large environments, deadlocks might occur on the H_SYS_INSTANCE
table when processing instructions such as:

```
IOM Command:UPDATE
row_param: Table Name :H_SYS_INSTANCE Columns:
COMPUTER_SYS_ID(S): 5E6BBDBA-1DD2-11B2-818C-D950966BCD20
TME_OBJECT_ID(S): 1016586499.17316.522+TMF_Endpoint::Endpoint
TME_OBJECT_LABEL(S): atltmelpm000
rows: NULL
number1: 1number2: 0string1:
string2:
```

While all the rows are locked, other RIM threads trying to perform updates
need to wait for the lock to be released.

APAR IZ00054

Abstract:

Duplicate entries created in SIGNATURE table after running **winvmigrate** command when platforms are different.

Error Description:

After applying 4.2.3 fix pack 2 and running the **winvmigrate** command with new software catalog XML file to complete the signature migration, you have duplicate entries for many signatures where one entry has PLATFORM = 'JVM' and a second entry has PLATFORM = "UNIX" or "WINDOWS".

APAR IZ00381**Abstract:**

wsetinvpcsw and **wsetinvunixsw** set on global basis for the -d option.

Error Description:

The -d option "Do not send files *catalog\$(platform).txt* to the Endpoint" does not work correctly on global basis. The expected behavior would be not to send the UNIX catalog files, if you set **wsetinvunixsw -d Y** and not to send the Windows catalog files, if you run **wsetinvpcsw -d Y**. Instead, if you set **wsetinvunixsw -d Y** or **wsetinvpcsw -d Y**, no catalog files are sent at all.

APAR IZ01609**Abstract:**

Hang running software distribution package scan.

Error Description:

When running a software distribution package that performs an Inventory scan, the operation hangs.

APAR IZ01679**Abstract:**

Missing libtis272.so file in SWD_CLI dependency.

Error Description:

The SWD_CLI/lib/libtis272.so file, that is missing in the SWD_CLI Inventory dependency, might cause the following error message:
wdinstsp failure with error_code=127

APAR IZ02233**Abstract:**

winvmigrate -c ITLCM22-IBMPRODUCTS-FULLSWCAT-20070630.XML fails.

Error Description:

The structure used to load extended signatures in the database wrongly used the default value (IBM) instead of the actual value (ibm_source) from the XML file.

APAR IZ02945**Abstract:**

Inventory collector does an unnecessary restart when endpoints abort the communication.

Error Description:

If during the data transfer between endpoint and collector, the endpoint for any reason aborts the communication, the upstream collector crashes.

APAR IZ03006**Abstract:**

The package ID is empty for all operating systems.

Error Description:

Running a registry scan the Entry_PkId attribute contained in the tivrscan.mif file is empty.

Additional Information:

This happens because the value of the infoName attribute contained in the Entry_PkId column of the config.xml file is empty.

APAR IZ03008**Abstract:**

Patch not reported during a registry scan on a Solaris workstation.

Error Description:

When running a registry scan on a Solaris workstation, no patches are reported in the TIV_Registry_Entries table contained in the tivrscan.mif file.

APARs and internal defects fixed for Scalable Collection Service: Table 8 lists the APARs and internal defects that were fixed for Scalable Collection Service:

Table 8. APARs and internal defects for Scalable Collection Service

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

APAR IY97209**Abstract:**

Multiple duplicate CTOCs in output queue due to an error during the checkpoint of the input queue.

Error Description:

If a fatal error occurs the CTOC should be moved from the input to the output queue and the input queue dumped on the file system (checkpoint process). But if during the checkpoint the data handler or data collector crashes or it is killed, the CTOC is still in the input queue and the next time it is processed, because it is in failure status, it will be moved again to the output queue.

APAR IY97613**Abstract:**

Data Handler - The IOM key is not released when IOM_TIMED_OPEN fails.

Error Description:

When the data handler or data collector fails to open an IOM connection with the downstream collector, the IOM connection is not released and the IOM key is not destroyed. As a result, the TCP/IP connection might

remain forever in a listen state. If the number of keys not released is greater than 250, no other connections are opened.

APAR IY97898

Abstract:

Data Handler stops processing CTOCs being unable to remove a CTOC with errors.

Error Description:

If for any reason the data handler crashes or it is killed before it moves a CTOC with errors in the error queue, at the next start it crashes. When a CTOC having errors needs to be removed, the data handler searches in the error queue. If no CTOC is found, then it raises an exception.

APAR IY99130

Abstract:

CLLFW0029E: Failed to open directory.

Error Description:

If you do not want to give full control to the group EVERYONE or to the user TMERSRVD, the scan fails with the following error message:

CLLFW0029E: Failed to Open Directory: c:\Tivoli\...db\mcollect

Additional information:

You might not see the **collector_prog1.exe** file disappear immediately from the task manager, because there are some conditions, when the file is killed by the oserv process, after which the oserv timeout expires.

APAR IZ02945

Abstract:

Inventory collector does an unnecessary restart when endpoints abort the communication.

Error Description:

If during the data transfer between endpoint and collector, the endpoint for any reason aborts the communication, the upstream collector crashes.

APARs and internal defects fixed for Software Distribution: Table 9 lists the APARs and internal defects that were fixed for Software Distribution:

Table 9. APARs and internal defects for Software Distribution

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		

APAR IZ00655

Abstract:

Some Windows workstations enter standby mode while doing a software distribution.

Error Description:

During a software distribution operation, the Windows workstation goes into standby mode.

APAR IZ01027**Abstract:**

Problem with disconnected environment if installed locally.

Error Description:

When the installation of the disconnected environment is performed using the ISMP installation, the disconnected CLI and the disconnected Software Package Editor need that at least one software package is distributed to the endpoint using the connected environment, for the endpoint to work properly.

APAR IZ01595**Abstract:**

Software Distribution does not manage Access Control Lists.

Error Description:

When a software package must replace, on a UNIX endpoint, a file that already has the ACL permissions set, Software Distribution completes the distribution with failure.

APAR IZ01673**Abstract:**

MoveFileEx process fails if booting.lst already exists.

Error Description:

When a software package followed by a reboot process is distributed, and the reboot process fails, the booting.lst file is not deleted. At the next distribution the MoveFileEx process does not work correctly.

APAR IZ03869**Abstract:**

Problem on a Linux workstation with the disconnected SPE.

Error Description:

On a Linux workstation, when you select in the Software Package Editor the following menu: **Tools -> Native -> select a RPM file and add -> Advanced**, the panel hangs.

APAR IZ04234**Abstract:**

TCM 4.2.2-FP02- INSTALL_MSI_PRODUCT with verbose logging performance problem.

Error Description:

The installation of MSI performed by Software Distribution is slower compared to the manual installation. When installing MSI using Software Distribution, the size of the MSI log files is the same as during a manual

installation. The performance problem seems to be caused by the way Software Distribution traces the verbose logging.

APARs and internal defects fixed for Activity Planner: Table 10 lists the APARs and internal defects that were fixed for Activity Planner:

Table 10. APARs and internal defects for Activity Planner

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

Defect 59151

Abstract:

Windows Vista support for Tivoli Provisioning Manager for Operating System Deployment.

Error Description:

The RAD package contains the old Tivoli Endpoint images that are not working properly on Windows Vista platforms. To support Windows Vista, the new RAD package now contains the LCF46 Tivoli Endpoint level.

APAR IZ00375

Abstract:

Retry for failure in adding recursion event for scheduler.

Error Description:

If a recursive plan is submitted and there is a failure when adding the event for the next plan recursion to the scheduler, the recursion 0 of the plan is correctly run while the recursion mechanism for the plan is disabled. A retry mechanism has been implemented to fix this issue. The already existing keys DB_RETRY_COUNT and RETRY_WAIT_INTERVAL have been used to customize the number of retries and the time to wait.

APAR IZ00420

Abstract:

"About" panel within APM editor and monitor not updated correctly after installing 4.2.3 Fix Pack 4.

Error Description:

After installing the Tivoli Configuration Manager 4.2.3 Fix Pack 4, the **Help->About** panel does not display.

APAR IZ01919

Abstract:

APM timeout is not honored by the APM engine.

Error Description:

The activity planner timeout is not honored. Even if the timeout is set, the activity planner engine process is shut down after thirty minutes of inactivity. The problem is that the APM timeout is respected by the APM_core but not by the APM_engine, that has a timeout on the listening socket hardcoded to 30 minutes. For this reason, after 30 minutes of inactivity the APM_engine exits.

APAR IZ01947

Abstract:

Improve performance of APM executer main thread.

Error Description:

The activity planner executer algorithm needs some improvements to improve the activity planner performance when too many execution windows are evaluated in large activity plans.

APAR IZ02679**Abstract:**

APM plans are not resumed.

Error Description:

When two "pause" actions for the same activity plan and activity are managed one following the other, a wrong "previousStatus" is put in the database and the activity cannot be resumed any longer.

APAR IZ03032**Abstract:**

Activity plan submit fails.

Error Description:

Using Oracle 10.2 UTF8 database, and trying to submit a plan having credentials bigger than 4000 bytes, the activity plan submit operation fails.

APAR IZ03951**Abstract:**

Administrator names case-sensitive in APM.

Error Description:

Activity Planner seems to find the wrong administrator name, when there are two Tivoli administrator names, which are identical, except for the lower or upper cases, such as "Root" and "root".

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

APARs and internal defects fixed for the Web Interface: Table 11 lists the APARs and internal defects that were fixed for the Web Interface:

Table 11. APARs and internal defects for Web Interface

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

APAR IZ02348**Abstract:**

Java hang of WebUI.

Error Description:

When logging on to the Web Interface and making a selection of software to download, as soon as you click the install, remove, or verify button, a blank pop-up window is displayed and the browser hangs. The only way to continue working is to end the task using the Ctrl+Alt+Del keys and retry. Then everything works until the client workstation is rebooted.

APARs and internal defects fixed for the Resource Manager: Resource Manager component does not currently contain any fixed APARs. Install this component because fixes have been released for some quality improvements.

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

APARs and internal defects fixed for Patch Management: Patch Management component does not currently contain any fixed APARs. Install this component because fixes have been released for some quality improvements.

APARs and internal defects fixed for Query Directory for Microsoft Active Directory - Command Line Interface: Query Directory for Microsoft Active Directory - Command Line Interface component does not currently contain any fixed APARs. Install this component because fixes have been released for some quality improvements.

APARs and internal defects fixed for Query Directory for Microsoft Active Directory: Query Directory for Microsoft Active Directory component does not currently contain any fixed APARs. Install this component because fixes have been released for some quality improvements.

APARs and internal defects fixed for CM Extension for Tivoli License Manager: CM Extension for Tivoli License Manager component does not currently contain any fixed APARs. Install this component because fixes have been released for some quality improvements.

APARs and internal defects fixed for CM Endpoint Extension: CM Endpoint Extension component does not currently contain any fixed APARs. Install this component because fixes have been released for some quality improvements.

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 12. Inventory APARs 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 13. Inventory APARs 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

Table 13. Inventory APARs included from 4.2.3–TCM-FP01 (continued)

Inventory, Version 4.2.3, 4.2.3–INV-FP01 and 4.2.3–INVGW-FP01		
IY73562	IY73952	IY74343
IY74421	IY74693	IY74769
IY75165	IY75168	IY75169
IY75350	IY75358	IY75611
IY75778	IY75835	IY76004
IY76150	IY76421	175653

Table 14. 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 15. 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 16. 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 17. Inventory APARs 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-INVGW-IF0001				
IY83381	IY85621	IY85965	IY86092	IY86229
IY86785	IY87021	IY87284	IY87805	IY88548
IY88885	IY88956	IY89009	IY89011	193723

Table 18. Inventory APARs 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-INVGW-IF0002				
195918	199809			

Table 19. 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-GW-FP0003				
IY84371	IY86231	IY86274	IY88194	IY89503
IY89573	IY89732	IY89795	IY89973	IY90238
IY90360	IY90869	IY90993	IY91031	IY91186
IY91237	IY91440	IY91547	IY91674	IY92105
IY92128	IY92385	IY92618		

Table 20. 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 21. 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 22. 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 23. 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 24. 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 25. Scalable Collection Service APARS included from 4.2.3-TIV-TCM-FP0003

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

Table 26. 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 27. Software Distribution APARS included from 4.2.3-TCM-0001

Software Distribution, Version 4.2.3, 4.2.3-SWDSRV-0001		
IY70587	IY70596	IY73905
IY71192	IY71401	IY71403

Table 27. Software Distribution APARs included from 4.2.3–TCM-0001 (continued)

Software Distribution, Version 4.2.3, 4.2.3–SWDSRV-0001		
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
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 28. Software Distribution APARs 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 29. 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 30. 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 31. 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 32. Software Distribution APARs 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 33. Software Distribution APARs included from 4.2.3.2-TIV-TCM-IF0002

Software Distribution, Version 4.2.3.2, 4.2.3.2-TIV-SWDSRV-IF0002				
58170	58176	58182	58186	58198
IY91469				

Table 34. 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 35. 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 36. Activity Planner APARs included from 4.2.3-TCM-0001

Activity Planner, Version 4.2.3, 4.2.3-APM-0001		
IY69394	IY70587	IY71064
IY71340	IY71810	IY71812
IY71963	IY72845	IY72998
IY73503		IY74468
IY74948	54559	

Table 37. Activity Planner APARs 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 38. 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 39. Activity Planner APARs included from 4.2.3–TCM-0003

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

Table 40. 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 41. 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 42. 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 43. 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 44. Change Manager APARs included from 4.2.3–TCM-0001

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

Table 45. Web interface APARs included from 4.2.3–TCM-0001

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

Table 46. Web interface APARs included from 4.2.3–TCM-FP01

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

Table 47. Web interface APARs included from 4.2.3–TCM-FP02

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

Table 48. Web Interface APARs included from 4.2.3–TIV-TCM-FP0003

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

Table 49. Resource Manager APARs included from 4.2.3–TCM-FP01

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

Table 50. Pristine Manager APARs included from 4.2.3–TCM-0001

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

Table 51. Patch Management APARs 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 52. Patch Management APARs 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 53. 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 54. 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 55. Directory Query APARs included from 4.2.3–TCM-0001

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

Table 56. Query Directory for Microsoft Active Directory APARs 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

Installation

This section describes how to install fix pack 5 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. Once 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 36
- “Software package block (SPB) fix pack installation for GUI components” on page 42
- “Updating the inventory schema” on page 49

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*[®]. 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 57. 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 Inventory, Version 4.2.3, backward compatibility patch on the Tivoli Inventory server. See Table 58 on page 39 for information about the related IND file.
2. Install the fix pack on the Tivoli gateways.
3. Install the fix pack on the Inventory server.
4. Upgrade the Inventory database on the Inventory server.

Note: If your Inventory environment, both Inventory server and Inventory gateways, is at version 4.2.3 fix pack 3 or fix pack 4 level, and you upgrade your Inventory gateways to fix pack 5 leaving the Inventory server to its current version installing the server backward compatibility, you need to run the sql scripts to upgrade the Inventory database to fix pack 5. If you do not run the sql scripts, your Inventory data is not inserted into the database tables.

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”
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 38
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 38
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 40
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 5 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 58 on page 39. 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 5 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 58. IND files included in this fix pack

IND file	Component name	Tag
CLLFP5.IND	Scalable Collection Service, Version 4.2.3	4.2.3-TIV-CLL-FP0005
INVFP5.IND	Inventory, Version 4.2.3	4.2.3-TIV-INV-FP0005
LCFFP5.IND	Inventory Gateway, Version 4.2.3	4.2.3-TIV-INVGW-FP0005
SWDFP5.IND	Software Distribution, Version 4.2.3	4.2.3-TIV-SWDSRV-FP0005
SDGWFP5.IND	Software Distribution Gateway, Version 4.2.3	4.2.3-TIV-SWDGW-FP0005
SDJFP5.IND	Software Distribution Software Package Editor, Version 4.2.3	4.2.3-TIV-SWDJPS-FP0005
APMFP5.IND	Activity Planner, Version 4.2.3	4.2.3-TIV-APM-FP0005
CCMFP5.IND	Change Manager, Version 4.2.3	4.2.3-TIV-CCM-FP0005
WEBUIFP5.IND	Web Interface, Version 4.2.3	4.2.3-TIV-WEB-FP0005
TRMFP5.IND	Resource Manager, Version 4.2.3	4.2.3-TIV-TRMSRV-FP0005
TRMGWFP5.IND	Resource Manager Gateway, Version 4.2.3	4.2.3-TIV-TRMGW-FP0005
PMFP5.IND	Pristine Manager, Version 4.2.3	4.2.3-TIV-PMSRV-FP0005
PMGFP5.IND	Patch Management, Version 4.2.3	4.2.3-TIV-PMG-FP0005
ICOMPFP5.IND	Inventory, Version 4.2.3, backward compatibility patch	4.2.3-TIV-INV-COMP-FP0005
DQYFP5.IND	Directory Query, Version 4.2.3	4.2.3-TIV-DQY-FP0005
ADCLIFP5.IND	Query Directory for Microsoft Active Directory - Command Line Interface, Version 4.2.3	4.2.3-TIV-ADICLI-FP0005

Table 58. IND files included in this fix pack (continued)

IND file	Component name	Tag
ADENGFP5.IND	Query Directory for Microsoft Active Directory, Version 4.2.3	4.2.3-TIV-ADIENG-FP0005
TLMXTFP5.IND	CM Extension for Tivoli License Manager, Version 4.2.3	4.2.3-TIV-TLMEXT-FP0005
CMEXTFP5.IND	CM Endpoint Extension, Version 4.2.3	4.2.3-TIV-CMEXT-FP0005
TPOSDFP5.IND	Tivoli Provisioning Manager for Operating System Deployment Integration, Version 4.2.3	4.2.3-TIV-TPOSD-FP0005

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 58 on page 39.

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” on page 41
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 41
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 42
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 5 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 59. IND files included in this fix pack

IND file	Component name	Tag
ADICLI.IND ¹	Query Directory for Microsoft Active Directory - Command Line Interface, Version 4.2.3	ADICli
ADIENG.IND ¹	Query Directory for Microsoft Active Directory, Version 4.2.3	ADIEng
TLMEXT.IND ^{1, 2}	CM Extension for Tivoli License Manager, Version 4.2.3	tlm_ext
CMEXT.IND ^{1,2}	CM Endpoint Extension, Version 4.2.3	cm_ext
TPOSD.IND	Image management services integration, Version 4.2.3	TPMforOSDeployment

¹ For these components, you need to install also the related patch. These patches can be found under the /images/SWD directory.

² For information on how to implement License Compliance Manager in your Configuration Manager environment see *IBM Tivoli Configuration Manager License Management Extension*.

- 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 5 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 59 on page 41.

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 46
- “Software Distribution server command” on page 47
- “Software Distribution disconnected command” on page 47

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 60.

Table 60. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_INV_GUI_Fix.v4.2.3.FP05		
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.
Tivoli_INV_GUI_L10N_Fix.v4.2.3.FP05		
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.
Tivoli_APM_GUI_Fix.v4.2.3.FP05		
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.
Tivoli_APM_GUI_L10N_Fix.v4.2.3.FP05		
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.
Tivoli_CCM_GUI_Fix.v4.2.3.FP05		
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.
Tivoli_CCM_GUI_L10N_Fix.v4.2.3.FP05		
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.
Tivoli_SWDEP_AIX_Fix.v4.2.3.FP05		
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.
Tivoli_SWDEP_HP_Fix.v4.2.3.FP05		

Table 60. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
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.
Tivoli_SWDEP_LINUX_IX86_Fix.v4.2.3.FP05		
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.
Tivoli_SWDEP_LINUX_S390_Fix.v4.2.3.FP05		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP05		
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.
Tivoli_SWDEP_NT_Fix.v4.2.3.FP05		
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.
Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP05		
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.
Tivoli_SWDEP_SOLARIS_Fix.v4.2.3.FP05		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_JRE_SOLARIS_IX86_Fix.v4.2.3.FP05		
Tivoli_JRE_version	1.3.0	The version of the JRE
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_SWDEP_SOLARIS_IX86.423		
Tivoli_SWDEP_SOLARIS_IX86_Fix.v4.2.3.FP05		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.

Table 60. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
Tivoli_SWDEP_L10N_Fix.v4.2.3.FP05		
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.
Tivoli_JRE_AIX		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
Tivoli_JRE_HP		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
Tivoli_JRE_LINUX_IX86		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
Tivoli_JRE_LINUX_S390		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
Tivoli_JRE_NT		
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
Tivoli_JRE_SOLARIS		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.3 is installed.
Tivoli_JRE_version	1.3.0	The version of the JRE
Tivoli_Web_Gateway_DB_Fix.v4.2.3.FP05		
Tivoli_Web_Gateway_L10N		
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.
Tivoli_Web_Gateway_SRV_Fix.v4.2.3.FP05		

Table 60. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
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.
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.
Tivoli_WebUI_Fix.v4.2.3.FP05		
Tivoli_WebUI_L10N		
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 5 CD 2 for complete instructions on 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 5 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_FP05.xml` file for the fix pack located in the `/package` subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 5 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 61 on page 48.
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 61 on page 48 contains the names of the fix pack 4 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 61. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_INV_GUI_Fix.v4.2.3.FP05.spb	Tivoli_INV_GUI_Fix.v4.2.3.FP05
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.FP05.spb	Tivoli_APM_GUI_Fix.v4.2.3.FP05
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.FP05.spb	Tivoli_CCM_GUI_Fix.v4.2.3.FP05
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.FP05.spb	Tivoli_SWDEP_AIX_Fix.v4.2.3.FP05
Tivoli_SWDEP_HP_Fix.v4.2.3.FP05.spb	Tivoli_SWDEP_HP_Fix.v4.2.3.FP05
Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP05.spb	Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP05
Tivoli_SWDEP_LINUX_IX86_Fix.v4.2.3.FP05.spb	Tivoli_SWDEP_LINUX_IX86_Fix.v4.2.3.FP05
Tivoli_SWDEP_LINUX_S390_Fix.v4.2.3.FP05.spb	Tivoli_SWDEP_LINUX_S390_Fix.v4.2.3.FP05
Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP05.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP05
Tivoli_SWDEP_NT_Fix.v4.2.3.FP05.spb	Tivoli_SWDEP_NT_Fix.v4.2.3.FP05
Tivoli_SWDEP_SOLARIS_Fix.v4.2.3.FP05.spb	Tivoli_SWDEP_SOLARIS_Fix.v4.2.3.FP05
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.FP05.spb ⁽¹⁾	Tivoli_SWDEP_SOLARIS_IX86_Fix.v4.2.3.FP05
Tivoli_SWDEP_L10N_Fix.v4.2.3.FP04.spb	Tivoli_SWDEP_L10N_Fix.v4.2.3.FP04
Tivoli_JRE_AIX.spb ⁽²⁾	Tivoli_JRE_AIX
Tivoli_JRE_HP.spb ⁽²⁾	Tivoli_JRE_HP
Tivoli_JRE_LINUX_IX86.spb ⁽²⁾	Tivoli_JRE_LINUX_IX86
Tivoli_JRE_LINUX_S390.spb ⁽²⁾	Tivoli_JRE_LINUX_S390
Tivoli_JRE_NT.spb ⁽²⁾	Tivoli_JRE_NT
Tivoli_JRE_SOLARIS.spb ⁽²⁾	Tivoli_JRE_SOLARIS
Tivoli_Web_Gateway_DB_Fix.v4.2.3.FP05.spb ⁽²⁾	Tivoli_Web_Gateway_DB_Fix.v4.2.3.FP05
Tivoli_Web_Gateway_L10N.spb ⁽²⁾	Tivoli_Web_Gateway_L10N
Tivoli_Web_Gateway_SRV_Fix.v4.2.3.FP05.spb ⁽²⁾	Tivoli_Web_Gateway_SRV_Fix.v4.2.3.FP05
Tivoli_WebUI_Fix.v4.2.3.FP05.spb ⁽²⁾	Tivoli_WebUI_Fix.v4.2.3.FP05
Tivoli_WebUI_L10N.spb ⁽²⁾	Tivoli_WebUI_L10N

Notes:

1. ⁽¹⁾ 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. (2) 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 need to update the Inventory schema.

This fix pack installation places files named `inv_dbvendor_schema_423_FP05.sql` and `h_inv_dbvendor_schema_423_FP05.sql` on the managed nodes where the patch is installed, in the following directory:

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

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

- `inv_dbvendor_schema_FP01.sql`
- `inv_dbvendor_schema_FP02.sql`
- `inv_dbvendor_schema_FP03.sql`
- `inv_dbvendor_schema_FP04.sql`
- `h_inv_dbvendor_schema_423_FP01`
- `h_inv_dbvendor_schema_423_FP02`
- `h_inv_dbvendor_schema_423_FP03`
- `h_inv_dbvendor_schema_423_FP04`

scripts again.

For instance, if you use DB2® and install this fix pack over a 4.2.3 GA Version you need to run the following scripts:

- `inv_db2_schema_423_FP01.sql`
- `inv_db2_schema_423_FP02.sql`
- `inv_db2_schema_423_FP03.sql`
- `inv_db2_schema_423_FP04.sql`
- `inv_db2_schema_423_FP05.sql`
- `h_inv_db2_schema_423_FP01.sql`
- `h_inv_db2_schema_423_FP02.sql`
- `h_inv_db2_schema_423_FP03.sql`
- `h_inv_db2_schema_423_FP04.sql`
- `h_inv_db2_schema_423_FP05.sql`

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

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 for SQL connectivity) to run the schema scripts.

During the running of the scripts, temporary copies are made of information held in MATCHED_SWARE, SIG_PACKAGE, and SIGS_MAP tables. If these tables, particularly MATCHED_SWARE, are populated, the inventory temporary table space might not be sufficient. During testing on a database with 20000 endpoints and 400000 entries in the MATCHED_SWARE table, the inventory temporary tablespace variable `inv_temp_ts` was increased from the default value of 10 MB to 100 MB. In addition, the size of the transaction log for INV_DB was increased to 50 MB. Take this into consideration when preparing to run the scripts.

Notes:

1. With DB2 7.2: if an error occurs when running the `inv_db2_schema_423_FP02.sql` script, increase the application heap size with the following command:
db2 update db cfg for <inv_db_name> using applheapsz 256
Then rerun the first instruction in the `inv_db2_schema_423_FP02.sql` file:
alter table COMPUTER alter column OS_NAME set data type varchar(128);
2. If you are running a customizable script in an MVS™ environment (`inv_db2_mvs_<cm version>_<fix pack level>.sql`), some variables can be customized. For information about the variables, refer to the header information in the `inv_db2_mvs_admin.sql` script.
3. Error or information messages might be displayed when running the database scripts. Each database has unique behavior, so some messages can be expected .
4. When you run the `inv_db2_mvs_custom_423_FP02.sql` script the `alter table NATIV_SWARE alter column PACKAGE_NAME set data type varchar(128)` instruction might not alter the NATIV_SWARE table. To avoid this problem you must perform the following steps:
 - a. Backup the table and the related views
 - b. Delete the table and all related views
 - c. Recreate table and related views

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 5, you need to run the following scripts:

- `dbvendor%422_FP03.sql`
 - `dbvendor%422_FP04.sql`
 - `dbvendor%422_FP05.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 instance, if you have downloaded Tivoli Configuration Manager Version 4.2.3 fix pack 5, 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.

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 5, then you must migrate the signatures belonging to the IBM software catalog. To do this, after having installed Configuration Manager 4.2.3 Fix Pack 5, perform the following steps:

1. Run the *inv_db_vendor_423_FP05.sql* script.
2. Download the latest IBM software catalog file from the following Web site:
<http://www-306.ibm.com/software/sysmgmt/products/support/IBMTivoliLicenseManager.html>

3. 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 shortname 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-FP0005, 4.2.3-TIV-SWDSRV-FP0005, and 4.2.3-TIV-INV-FP0005 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-FP0005, 4.2.3-TIV-SWDSRV-FP0005, and 4.2.3-TIV-INV-FP0005 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 5 CD 3 under the /twg_installer directory.

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-FP0005** Software Distribution fix pack to update the Software Distribution command line and GUI.
2. Install the **4.2.3-TIV-SWDGW-FP0005** Software Distribution gateway fix pack to update Windows endpoints at the next distribution.
3. Install the **4.2.3-TIV-APM-FP0005** 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 52.
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 `wdepцем.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,” 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 **wdepцем** command. For more information on this command, see “wdepцем” on page 58.

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
- wcommstsp
- winstsp
- 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 65
- 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 66.

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 wcrtplng.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.

Documentation problems and corrections contained in this fix pack

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 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.

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:

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.

Standard CIT 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 enabler is provided to bypass current limitations of some virtualization software and should not be seen as a standard part of the CIT offering. The enabler is produced as a part of the CIT build process, but its deployment, installation, execution, and automation are the sole responsibility of the Inventory users who are interested in the LPAR information.

The CIT enabler is installed on the physical workstation which hosts the guest operating systems. The CIT enabler stores the correct hardware information on the guest operating systems. When CIT starts a scan on a guest operating system, the correct hardware configuration data is retrieved and returned in output.

VMware versions supported by CIT are shown in the table below:

Table 62. Versions of VMware supported by CIT

VMWare versions tested on CIT
ESX Server 3.0
ESX Server 3.01
ESX Server 2.5.3

Starting the enabler

The enabler does not require an installation process. To use the enabler, copy the files listed below from the /cit_enabler folder on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 5 CD 1 to the workstation which hosts the guest operating systems:

Table 63. Enabler executable files

Virtual software	Supported OS	Files	Directories
VMware	Microsoft Windows	<ul style="list-style-type: none"> wenvmw.exe retrieve.pl 	enabler\ VMWare\w32-ix86
	Linux	<ul style="list-style-type: none"> dispatcher retrieve.pl wenvmw.sh 	/enabler/ VMWare/linux-ix86

Installation of VMware VmPerl Scripting API is mandatory prior to 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 which is created in the same directory where the executable file is located.

The guest workstations must be active when the enabler is started. Any guest workstations not active when the enabler is running, are not detected.

Run the enabler after a configuration change is applied to the guest workstations and after a reboot. If you run the enabler after the configuration changes, the updated data is returned by the hardware scan. 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, while a nonzero return code indicates that an error occurred. A list of all nonzero return codes is given in the table below:

Table 64. Enabler return codes

Return value	Code	Description
RETRIEVE_NODECAPACITY_ERROR	1	Cannot collect host system processor number.
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.
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 en_out.txt file.

Table 64. Enabler return codes (continued)

Return value	Code	Description
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.2.4.1003 @Endpoint:ep1
wcommstsp -f @CIT.2.4.1003 @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 3 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 65. 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 66. 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

Table 66. Commands and configuration files on UNIX platforms (continued)

UNIX		
Type of scan	Command	Configuration file
Scan registry for product information	/opt/tivoli/cit/bin/wscanvdp -c /tivoli/unix_ep_name//inv/ SCAN/config.xml -o /tivoli/ unix_ep_name//inv/SCAN/ tivrsan.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 67:

Table 67. 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.
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.

Table 67. Return codes (continued)

Return value	Code	Description
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.
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.

Table 67. Return codes (continued)

Return value	Code	Description
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/
```

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.

Database Schema Reference

This section contains new and updated information for IBM Tivoli Configuration Manager Database Schema Reference:

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.	✓	✓	✓	✓		✓		✓	✓	✓

Column Name	Description	AIX	HP-UX	Linux (S/390)	Linux (PC)	NetWare	OS/2	OS/400	Solaris	Windows 98	Windows NT/2000
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.								✓		^w
RECORD_TIME	The time that the data was updated at the database.	✓	✓	✓	✓		✓		✓	✓	✓
^w 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.

Patch Management Guide

This section contains new and updated information for IBM Tivoli Configuration Manager Patch Management Guide:

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.

Release Notes

This section contains new and updated information for IBM Tivoli Configuration Manager Release Notes:

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.

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.

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".

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 4.2.3 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 68. WSUS patch management files

SUS Files	WSUS Files
<code>mssecure.cab</code>	<code>wsusscan.cab</code>
<code>mbsacli.exe</code>	<code>WindowsUpdateAgent20-x86.exe</code>
<code>ApprovedItems.txt</code>	<code>ApprovedChanges.txt</code>

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.2.4.1003
CIT_Preinstall.CIT

Note: The CIT version 2.4.1003 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.

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.

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
```

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
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.

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.

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.

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 Manager: Reference Manual for Software Distribution*, SC23-4712 and *IBM Tivoli Configuration Manager: User's Guide for Inventory*, SC23-4713 for more information.

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.

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".

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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