

IBM Tivoli Configuration Manager



Readme File for Fix Pack 3 - PTF U810388

Version 4.2.3

Note

Before using this information and the product it supports, read the information in “Notices” on page 75.

First Edition, December 2006

This edition applies to fix pack 3 (PTF U810388) 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-FP0003 (PTF U810388)

This readme file provides important information about Fix Pack 3 (PTF U810388) 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.

LN10 packages are at Fix Pack 2 level. They will be available in the next fix pack released.

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 this fix pack” on page 3
- “Enhancements” on page 3
- “Product compatibility” on page 15
- “Limitations” on page 15
- “Product fix history” on page 16

CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 3 includes *three* CD-ROMs as detailed in the following tables:

Table 1. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 3 CD 1

Directory or path	Contents
/xml	The XML file to be used by the ISMP installation program.
/docs	Readme file.
/CIT_SPB	Software package block (SPB) files used to upgrade the CIT component to version 2.3
/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, and CM Extension for Tivoli License Manager fix pack.
/images/SWD_L10N/	Images required to install the national language support fix pack for Software Distribution.

Table 1. IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 3 CD 1 (continued)

Directory or path	Contents
/images/INVENTORY_L10N/	Images required to install the national language support fix pack for inventory (at fix pack 2 level).
/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 3 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 61.
/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 3 CD 3

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

Manuals updated in this fix pack

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: 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"
- "New features in the previous fix packs and interim fixes" on page 7

New features in this fix pack

The following enhancements have been introduced in this fix pack:

Table 4. Customer enhancement request references

	Enhancement	Reference
Tivoli Web Gateway	Nokia s60 support	
Inventory	Virtual resource scan	MR0508067421
	Multi core support	MR0826056352

Table 4. Customer enhancement request references (continued)

	Enhancement	Reference
Patch Management	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
New Component	Tivoli Provisioning Manager for Operating System Deployment integration	58233
New Endpoint support	Windows Vista support	
APM	Configure the Ignore option results	58122
Software Distribution	Add "defer" as possible default_action	IY92880

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. Security patches can be distributed to these endpoints.

Configure the Ignore option results in APM - Feature 58122

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

Add "defer" as possible default_action - Feature IY92880

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

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

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	
New platform	Solaris x86 support	
APM	Search facility for saved activity plans	MR124044922
	Activity plan group creation, submission, and tracking	
	Immediate start for unique targets in conditioned activities	
	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
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
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	

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

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 50.

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 63.

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 63.

Performing patch management using WSUS - Feature 55317

You can perform patch management using WSUS to implement the approval mechanism of patches and to download up-to-date patches from

the Microsoft Web site. For more details on this new automated patch management solution, see the updated version of the *IBM Tivoli Patch Management Guide*.

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

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

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

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

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

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

`__COMMIT_REBOOT_FORCED__`

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

`__BEFORE_REBOOT_PROG_PATH__`

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

`__BEFORE_REBOOT_PROG_ARGS__`

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

`__BEFORE_REBOOT_PROG_TIMEOUT__`

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

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

Managing software packages - Feature 55487

You can set the `use_real_capabilities` key to true with the `wswdmgr` command to not distribute a software package on targets belonging to policy regions where the administrator, submitting the distribution, does not have the required roles. The default is false.

Working with the Software Distribution Endpoint Notification dialog - Feature 55522

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

Tivoli Configuration Manager license management extension

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

Patch Management extension

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

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

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

Active Directory integration

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

Solaris x86 support

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

Search facilities for saved activity plans

A dynamic search has been added to group saved plans.

Activity plan group creation, submission, and tracking

This feature introduces a tool that manages groups of activity plans as a single entity. A script is used to create the group of activity plans and assign a name to the group. A further script is then scheduled as a repeating job to first submit the group of plans and then produce HTML format reports of its progress by querying the APM and MDIST2 databases. See “Implementing the activity plan group management feature” on page 61 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 TCM-TPM 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
```

Product compatibility

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

IBM Tivoli Configuration Manager, Version 4.2.3 fix pack 4.2.3.-TIV-TCM-FP0003 was tested using :

- Tivoli Management Framework, Version 4.1.1 plus fix pack 5 containing the following interim fixes:
 - 4.1.1-LCF-0038 to be installed on the Tivoli gateways.
 - 4.1.1-TMF-0055 to be installed on the managed nodes with JRIM and JCF components installed.
 - 4.1.1-TMF-0070 to be installed on Tivoli servers, managed nodes, and gateways.
- Tivoli Provisioning Manager for Software, version 5.1
- Tivoli Provisioning Manager for Operating System Deployment , version 5.1 plus fix pack 1
- IBM Tivoli Configuration Manager license management extension requires the installation of the IBM Tivoli License Compliance Manager, Version 2.2 plus fix pack 2

Limitations

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.

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 29

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-FP0003	Inventory, Version 4.2.3
4.2.3-TIV-INVGW-FP0003	Inventory Gateway, Version 4.2.3
4.2.3-TIV-CLL-FP0003	Scalable Collection Service, Version 4.2.3
4.2.3-TIV-SWDSRV-FP0003	Software Distribution, Version 4.2.3
4.2.3-TIV-SWDGW-FP0003	Software Distribution Gateway, Version 4.2.3
4.2.3-TIV-SWDJPS-FP0003	Software Distribution Software Package Editor, Version 4.2.3
4.2.3-TIV-APM-FP0003	Activity Planner, Version 4.2.3
4.2.3-TIV-CCM-FP0003	Change Manager, Version 4.2.3
4.2.3-TIV-WEB-FP0003	Web Interface, Version 4.2.3

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

Fix pack	Component/Service
4.2.3-TIV-TRMSRV-FP0003	Resource Manager, Version 4.2.3
4.2.3-TIV-TRMGW-FP0003	Resource Manager Gateway, Version 4.2.3
4.2.3-TIV-PMSRV-FP0003	Pristine Manager, Version 4.2.3
4.2.3-TIV-PMG-FP0003	Patch Management, Version 4.2.3
4.2.3-TIV-DQY-FP0003	Directory Query, Version 4.2.3
4.2.3-TIV-ADICLI-FP0003	Query Directory for Microsoft Active Directory - Command Line Interface, Version 4.2.3
4.2.3-TIV-ADIENG-FP0003	Query Directory for Microsoft Active Directory, Version 4.2.3
4.2.3-TIV-TLMEXT-FP0003	CM Extension for Tivoli License Manager, Version 4.2.3
4.2.3-TIV-CMEXT-FP0003	CM Endpoint Extension, 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-FP0003 and 4.2.3-TIV-INVGW-FP0003				
IY84371	IY86231	IY86274	IY88194	IY89503
IY89573	IY89732	IY89795	IY89973	IY90238
IY90360	IY90869	IY90993	IY91031	IY91186
IY91237	IY91440	IY91547	IY91674	IY92105
IY92128	IY92385	IY92618	IY92969	IY93009

APAR IY84371

Abstract:

Problem with GUI opening the subscribers window to select target

Error Description:

A problem occurs when opening the subscribers window to select targets, in the available subscribers square. If you expand all using the expand all button, the sort order is not correct, there is no visible sort order.

APAR IY86231

Abstract:

INV_RCV_METHS core dumps if RIM OBJECT does not exist

Error Description:

If a rim object is invalid inv_rcv_meths traps. The not valid rim object condition can be checked obtaining the following outputs for the commands described below:

```
wrimtest -l tec
Resource Type : RIM
Resource Label : tec
FRWSL0006E A reference to an object is invalid. The object no
longer exists or is in a disconnected TMR.
```

APAR IY86274

Abstract:

inv_config_ep_meths crash when comparing different attribute data

Error Description:

The inv_config_ep_meths process crashes when, performing a hardware scan and applying a fix pack or interim fix that has modified any attribute data, you perform a new hardware scan using the "update with differences" option.

APAR IY87021

Abstract:

wscanner fails on Linux PPC endpoints

Error Description:

When running the wscanner command on Linux PPC endpoints, the scan fails with the following error:

```
wscanner: error while loading shared libraries:
./libssInv.so:R_PPC_REL24 relocation at 0x0ff03630 for symbol
`setlocale' out of range
Jun 28 15:42:05 Q MethInit ** Exception caught in run_impl:
Command ./wscanner failed (argv[0]=./wscanner status=32512
errno2)
```

APAR IY88194

Abstract:

SWD APAR IY83758 must be ported to Inventory

Error Description:

When distributing an Inventory profile, an unnecessary error trace file is generated if Resource Manager is not installed.

APAR IY88548

Abstract:

Scan of AIX systems with large number of HDISK devices takes too long

Error Description:

Scanning an AIX system with a large number of hdisk devices takes too much time. It might also raise CPU usage to unacceptable levels.

APAR IY88956

Abstract:

Printer information is misleading

Error Description:

Network printers are displayed by the PRINTER_VIEW when querying for PRINTER_IS_LOCAL = Y. There are values such as Y, N, O, Z. User needs to know what O and Z represent.

Additional information:

The fix includes a change in the way network printers are scanned in legacy mode on Microsoft Windows operating systems.

APAR IY89009

Abstract:

Hardware scan causes CPU spike

Error Description:

Hardware scan causes CPU spike if Cypress Semiconductor USB FM Radio is attached.

Additional information:

This fix addresses issues with scans hanging on certain USB devices on Microsoft Windows operating systems.

APAR IY89503**Abstract:**

Multibyte strings are not managed correctly

Error Description:

Multibyte strings are not managed correctly when transforming the tivpatchscan_bad.mif file into the tivpatchscan.mif file.

APAR IY89573**Abstract:**

Removal of software fails to update Inventory tables

Error Description:

With Software Distribution and Inventory integration enabled on both sides, the installation of software does update the MATCHED_SWARE table and view as expected. However, removal of software does not update or remove the entry or row from MATCHED_SWARE as it should.

APAR IY89732**Abstract:**

INV_CONFIG_EP_METHS pop up when reading TIVPATCHSCAN_BAD.MIF file in DBCS environment

Error Description:

Inv_config_ep_meths might popup when reading the tivpatchscan_bad.mif file on DBCS workstations.

APAR IY89795**Abstract:**

CIT 221 creates incorrect MIF file for IP ADDRESS table

Error Description:

Common Inventory Technology (CIT) version 221 with Tivoli Configuration Manager version 4.2.3 fix pack 2 creates an incorrect MIF file. The IP Address table contains rows with 10 columns instead of 9. The problem is caused by the ipv6 address value.

APAR IY89973**Abstract:**

Hot fixes and other software are shown in the database for endpoints scanned

Error Description:

When performing a registry scan on Windows XP endpoints, you find some software listed in the query output that relates to other platforms, such as:

```
pc-471774 Windows 2000 Hotfix - KB896422 20050503.23608
Microsoft Corporation 2006.08.15 09:15:11
```

This problem occurs on multiple-windows platforms.

APAR IY90238

Abstract:

High CPU usage

Error Description:

When performing a software scan on certain configurations of Microsoft Windows workstations, the scan takes a lot of CPU time.

APAR IY90360

Abstract:

Incorrect native software entries

Error Description:

Registry scan of Windows 2000 and Windows XP workstations, after applying fix pack 2, creates duplicate `nativ_id` entries. You need to correct the `config.xml` file to work with the new CIT binary delivered with APAR IY89973.

APAR IY90869

Abstract:

After installing 4.2.3-INV-TIV-LA0022 CIT scanner not upgraded

Error Description:

After installing 4.2.3-INV-TIV-LA0022, the CIT scanner is not upgraded after an inventory profile distribution. You need to manually edit the `inv_ep.ini` file on the gateway to ensure that the CIT software package blocks are correctly installed. After the upgrade, the `$BINDIR/../lcf_bundle.41100/generic/inv_ep.ini` file is unchanged.

APAR IY90993

Abstract:

INV_STAT_METHS cores after upgrade from 4.2.2 TCM FP02 to FP03

Error Description:

The `/Tivoli/bin/solaris2/TME/INVENTORY/inv_stat_meths` process cores after upgrading from 4.2.2 TCM FP02 to FP03.

APAR IY91031

Abstract:

wscanner error while loading shared libraries

Error Description:

PowerPC Linux inventory scanner program `wscanner` shows errors, and collects no inventory information for `linux-ppc` interpreters.

APAR IY91186

Abstract:

INV_STAT_METHS on Inventory Data Handler exits in unexpected way

Error Description:

The `nv_stat_meths` process on Inventory Data Handler exits in an unexpected way on Windows, if the `LOG_FILE` option is set through the `wsetinvglobal` command. This error happens more often if a Data Handler on Windows platforms is managing a large number of scans.

APAR IY91237

Abstract:

MIF parse error with huge TIVFSCAN.MIF file

Error Description:

When scanning very large TIVFSCAN.MIF files, you get the following error:

```
INVMIO020E A MIF parsing error occurred in file tivfscan.mif at  
line 21506. syntax error Context: 2005  
INVLC0019E Unrecoverable error occurred during scan. The  
process is terminating.
```

APAR IY91440

Abstract:

Failing INV_DB2_MVS_UPGRADE_422_423.SQL script

Error Description:

The installation of the upgrade script inv_db2_mvs_upgrade_422_423.sql fails and shows the following error:

```
DSNT408I SQLCODE = -625, ERROR: TABLE DB2TVUSR.SD_PACKAGES DOES  
NOT HAVE AN INDEX TO ENFORCE THE UNIQUENESS OF THE PRIMARY OR  
UNIQUE KEY
```

Additional information:

Some remarks at the beginning of the script were added in order to advise the customer about which statements can be commented when starting from 4.2.2 FP01 instead than from 4.2.2 GA. The inv_db2_mvs_upgrade_422_423.sql and inv_db2_mvs_custom_upgrade_422_423.sql released with this APAR actually migrate from 4.2.2 GA (or FP01) to 4.2.3 FP01 schema.

APAR IY91547

Abstract:

TIVPATCHSCAN.MIF problem if TIVPATCHSCAN_BAD.MIF contains ','

Error Description:

The problem occurs if the tivpatchscan_bad.mif file has an entry where the truncated description ends with a comma.

APAR IY91674

Abstract:

Problem in Unicode to ANSI translation for MIF files

Error Description:

The problem is that when a Unicode string contains characters that cannot be converted to a multibyte string, an incorrect string is generated.

APAR IY92105

Abstract:

Data handler not able to create new iom keys

Error Description:

Inventory Data Handler is not able to create iom keys. As a result no iom connections can be established between Data Handler collectors and no data are transmitted.

APAR IY92128

Abstract:

Signature scan problem with many "file type" in the profile

Error Description:

Signature scan creates an empty config.xml file on Windows platforms, when an InventoryConfig profile is distributed that executes a signature software scan and specifies a lot of Include or Exclude files extensions.

APAR IY92385**Abstract:**

IBM_SOURCE incorrect setting after migrating to FP02

Error Description:

After migrating to CM 423 fix pack 2, all the custom signatures have the IBM_SOURCE field set to 1.

APAR IY92618**Abstract:**

CIT storage group scan on Linux tries to scan all sg devices

Error Description:

Common Inventory Technology (CIT) tries to open all /dev/sg* devices. This fails with some hardware that does not conform to SCSI generic.

APAR IY92969**Abstract:**

Wrong database name in the INV_DB2_MVS_SCHEMA_423_FP02.SQL script

Error Description:

The following statement inside the INV_DB2_MVS_SCHEMA_423_FP02.SQL script is wrong:

```
-- drop table MSWARE_DESC;
CREATE TABLE MSWARE_DESC (
    COMPUTER_SYS_ID    VARCHAR(64)    NOT NULL,
    SWARE_SIG_ID        INTEGER        NOT NULL,
    MD5_ID              VARCHAR(128)   NOT NULL,
    SWARE_SIG_PATH      VARCHAR(1024)  NOT NULL,
    PRIMARY KEY(COMPUTER_SYS_ID, SWARE_SIG_ID, MD5_ID),
    FOREIGN KEY(COMPUTER_SYS_ID)
        REFERENCES COMPUTER(COMPUTER_SYS_ID))
    IN XX_DBNAME.XX_TABLESPACE;
CREATE UNIQUE INDEX MSWDESC_PK ON MSWARE_DESC
    (COMPUTER_SYS_ID, SWARE_SIG_ID, MD5_ID)
;
```

It contains the following wrong row:

```
IN XX_DBNAME.XX_TABLESPACE;
```

APAR IY93009**Abstract:**

LA26 DOES NOT CONTAIN BINARIES FOR OS400

Error Description:

LA26 does not contain binaries for OS/400. The binaries for all the supported operating systems are available with fix pack 3.

APARs and internal defects fixed for Scalable Collection Service: Table 8 on page 23 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-FP0003				
IY87132				

APAR IY87132

Abstract:

WCOLLECT missing keywords description in man page

Error Description:

When running the following command:

```
wcollect InvDataHandler:inv_data_handler
```

man pages do not show the last 3 lines of output, which are:

```
log_completed_ctoc = true
reload_queue_time = 15 min
checkpoint_mode = full
```

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-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

APAR IY86341

Abstract:

Permission changes with depot files on HP_UX

Error Description:

While putting depot files in the /tmp directory on HP-UX systems, the directory information is changed from 777 to 755 and the owner and group permissions are also changed.

APAR IY87352

Abstract:

WSPMVDATA command fails when sending files named \$(EP_LABEL)-REGION

Error Description:

If you run the wspmvdta command to send multiple files to multiple

endpoints using the \$(ep_label) variable, and the sender is a managed node, the wspmvdta command fails immediately.

APAR IY89298

Abstract:

Additional traces added to the area of report from data moving are needed

Error Description:

New trace records have been added to the data moving request area.

APAR IY89665

Abstract:

wmsgbrowse -s causes SWDMGR crash

Error Description:

When running the wmsgbrowse -s command, it causes the crash of Software Distribution Manager by signal 4 as reported in the oservlog file:

```
2006/09/13 14:06:28 -01: ^/Tivoli/bin/aix4-r1/TME/SWDIS/SWDMGR/swdmgr
(method:4429-manage_message_queue, PID:64048) killed by signal 4
```

APAR IY89709

Abstract:

Running an EXECUTE_USER_PROGRAM during UNDO - STATE = IUC-E

Error Description:

A software package with a during_undo program that runs in background causes the failure of the package during undo phase.

APAR IY89761

Abstract:

Software package registry variables usage in conditionals

Error Description:

In condition statements, the variables are resolved only if they are not in a string, with quotes around them.

APAR IY90147

Abstract:

Disk space check not completed when directory does not exist

Error Description:

Disk space check is not completed when directory does not exist, but the parent directory does, on UNIX and Linux platforms.

APAR IY90438

Abstract:

WSYNCSPP command not working after a WDMINSTSP

Error Description:

After a wsyncsp -f command, also the packages that do not exist in the Tivoli region are stored in the CM_STATUS_QUERY.

APAR IY90443

Abstract:

SWDMGR -C FAIL_UNAVAIL=TRUE does not work

Error Description:

When running the `wswdmgr -c fail_unavail = true` command, the command fails and return the following error message:

DISSE0230E The input token 'fail_unavail' is invalid.

APAR IY90445**Abstract:**

Origin host blanked for plans created before installing CM423 FP02

Error Description:

In the upgrade from CM 423 FP01 to FP02, when submitting the plans that involve data moving, an error related to the origin host which is blank is generated.

APAR IY90729**Abstract:**

Icon not replaced on Windows Shell link with SWD REPLACE_IF_EXISTING attribute enabled and software packages with different icons

Error Description:

If you have multiple software packages, the first package adds a windows shell link, with an executable file specified, however, no `icon_location` is identified. The next software package modifies the Windows shell link, and this one contains the `icon_location`, but the icon differs from the original one. The `replace_if_existing` attribute is enabled, however, the windows shell link and the new icon are not replaced.

APAR IY90955**Abstract:**

Transactional install operation does not check missing files in staging depot

Error Description:

During the transactional install operation, files are copied into a temporary location. During the commit operation, files are copied to the final destination. If any file is missing or not copied to this staging area during the install operation, the commit operation does not report any missing files.

APAR IY91076**Abstract:**

SWDMGR incorrectly calculates the managed node when a load is performed using APM

Error Description:

Submit a plan to load a software package on a managed node. The load succeeds and the report is sent to the Tivoli server (TMR), but the SWDMGR process is not able to associate the correct managed node name to it.

APAR IY91436**Abstract:**

Activity Planner Monitor disposable keyword impacts not-built nested software package

Error Description:

Submit a plan having DISPOSABLE=F and containing not-built nesting

and nested software packages. The installation completes successfully but the entries related to the nested software package are left on the depot.

APAR IY91469

Abstract:

Failure installing 4.2.3.2-TIV-TCM-IF0001

Error Description:

When installing the 4.2.3.2-TIV-TCM-IF0001 Software Distribution server component, you get the following error:

```
REPORTMANAGERENG=/TME/ReportManager/ReportManager.cfg
| -f /TME/ReportManager/ReportManager.cfg
echo Can't find ReportManager.cfg
exit
```

and the installation stops.

APAR IY92137

Abstract:

Check point restart does not correctly manage exception reports

Error Description:

Incorrect management of exception reports in conjunction with check point restart causes an spd_eng trap in dm_mdlist2_result method.

APAR IY92678

Abstract:

SPD_ENG crashes when receiving data moving reports

Error Description:

The spd_eng process crashes when receiving reports after data moving retrieve.

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-FP0003				
IY86738	IY87635	IY88552	IY89231	IY89281
IY89282	IY89667	IY90259	IY90706	IY91115

APAR IY86738

Abstract:

All the targets of an activity are marked as failed, even if some targets were in successful state

Error Description:

Some targets of an activity plan are marked as successful during the processing of a plan. Due to an exception raised by Distribution Manager, all the targets are changed into failure state, including the ones that were already in successful state.

APAR IY87635

Abstract:

APM GUI launch fails if login name contains '.' symbol

Error Description:

If one of the Activity Planner GUIs is launched by a user name containing a period symbol ('.' symbol), such as user.raleigh.ibm, the GUI fails to open, returning the following error message:

AMN4050E No role has been defined. This error occurs on the Windows platform

APAR IY88552**Abstract:**

Wrong activity timing if TZ is (GMT+02:00) Harare, Pretoria

Error Description:

If the Windows time zone is set to (GMT+02:00) Harare, Pretoria, when submitting any activities using the Activity Planner Monitor, the started time shows two hours earlier than the actual submitting time.

APAR IY89231**Abstract:**

APM database locks are kept if the endpoint manager does not work correctly

Error Description:

You might get locks on the APM database as a consequence of performance issues in the Endpoint Manager.

APAR IY89281**Abstract:**

APM fails to start if REC_TYPE column is set

Error Description:

Activity Plan Monitor fails to start if the REC_TYPE column for some plan is set to some value and REC_STOP_OVERLAP and IS_DYN_RESOLV for the same plan are null in the V_PLAN_STATUS view. This situation should not normally occur, because if a plan is set to recursive, 'REC_STOP_OVERLAP and IS_DYN_RESOLV' require a value of TRUE or FALSE. This error is displayed in the APMHandler*.trc file when the engine attempts to load the plan.

APAR IY89282**Abstract:**

wcrtpln -R s *plan* command run against a non-recursive plan

Error Description:

Running the wcrtpln -R s *plan* command against a non-recursive plan, sets the plan REC_TYPE in the V_PLAN_STATUS view. This should only be allowed for recursive plans.

APAR IY89667**Abstract:**

wdelstat command does not delete the recursive plan

Error Description:

If you run the *wdelstat* command to cancel the recursive plan when the plan has still active recursions, you delete the completed recursions but you cannot delete the base instance.

APAR IY90259**Abstract:**

wsubpln and wexppln fail when more than 200 targets are excluded

Error Description:

RIM is non able to manage nested queries with more than 200 results. When a plan has more than 200 targets, the solution is to break the nested queries into two different queries.

APAR IY90706**Abstract:**

Activity plan marked as successful even if target is not accessible

Error Description:

When submitting an activity plan using the -T option, even if the \$(TARGET_LIST) shows zero targets, the plan is marked as "Successful".

APAR IY91115**Abstract:**

Improvement to WDELSTAT of recursive plans

Error Description:

When a wdelstat of a recursive plan is performed, the session is committed only once, at the end. When thousands of recursions of the same plans are in the database, this can increase the exposure to a deadlock. With this APAR, the wdelstat of recursive plans has been improved allowing you to customize in the apm.ini file the key delstat_commit_interval. The default value of the delstat_commit_interval key is 10. The key can be customized appropriately, depending on how many recursions of the same plan are in the database.

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 Web Interface:

Table 11. APARs and internal defects for Web Interface

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

APAR IY89223**Abstract:**

WebUI hangs when downloading basic application bundle

Error Description:

The Web Interface might hang when showing the message "downloading basic application bundle".

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. 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 20. 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 21. 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 22. 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 23. 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
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 24. 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 25. 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 26. 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 27. 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 28. 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 29. 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 30. 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 31. 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 32. 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 33. Activity Planner APARs included from 4.2.3–TCM-0003

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

Table 34. 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 35. 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 36. Change Manager APARs included from 4.2.3–TCM-0001

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

Table 37. Web interface APARs included from 4.2.3–TCM-0001

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

Table 38. Web interface APARs included from 4.2.3–TCM-FP01

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

Table 39. Web interface APARs included from 4.2.3–TCM-FP02

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

Table 40. Resource Manager APARs included from 4.2.3-TCM-FP01

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

Table 41. Pristine Manager APARs included from 4.2.3-TCM-0001

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

Table 42. 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 43. 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 44. 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 45. 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 46. Directory Query APARs included from 4.2.3-TCM-0001

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

Table 47. 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 3 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 37
- “Software package block (SPB) fix pack installation for GUI components” on page 43
- “Updating the inventory schema” on page 47

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:

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 48. 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

Table 48. Space requirements for the License Management Extension (continued)

Component	Space
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 work, perform the following steps:

1. Install the Inventory, Version 4.2.3, backward compatibility patch on the Tivoli Inventory server. See Table 49 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.

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 39
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 3 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 49. 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 3 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 49. IND files included in this fix pack

IND file	Component name	Tag
CLLFP3.IND	Scalable Collection Service, Version 4.2.3	4.2.3-TIV-CLL-FP0003
INVFP3.IND	Inventory, Version 4.2.3	4.2.3-TIV-INV-FP0003
LCFFP3.IND	Inventory Gateway, Version 4.2.3	4.2.3-TIV-INVGW-FP0003

Table 49. IND files included in this fix pack (continued)

IND file	Component name	Tag
SWDFP3.IND	Software Distribution, Version 4.2.3	4.2.3-TIV-SWDSRV-FP0003
SDGWFP3.IND	Software Distribution Gateway, Version 4.2.3	4.2.3-TIV-SWDGW-FP0003
SDJPFP3.IND	Software Distribution Software Package Editor, Version 4.2.3	4.2.3-TIV-SWDJPS-FP0003
APMFP3.IND	Activity Planner, Version 4.2.3	4.2.3-TIV-APM-FP0003
CCMFP3.IND	Change Manager, Version 4.2.3	4.2.3-TIV-CCM-FP0003
WEBUIFP3.IND	Web Interface, Version 4.2.3	4.2.3-TIV-WEB-FP0003
TRMFP3.IND	Resource Manager, Version 4.2.3	4.2.3-TIV-TRMGW-FP0003
TRMGWFP3.IND	Resource Manager Gateway, Version 4.2.3	4.2.3-TIV-TRMGW-FP0003
PMFP3.IND	Pristine Manager, Version 4.2.3	4.2.3-TIV-PRI-FP0003
PMGFP3.IND	Patch Management, Version 4.2.3	4.2.3-TIV-PMG-FP0003
ICOMPFP3.IND	Inventory, Version 4.2.3, backward compatibility patch	4.2.3-TIV-INV-COMP-FP0003
DQYFP3.IND	Directory Query, Version 4.2.3	4.2.3-TIV-DQY-FP0003
ADCLIFP3.IND	Query Directory for Microsoft Active Directory - Command Line Interface, Version 4.2.3	4.2.3-TIV-ADICLI-FP0003
ADENGFP3.IND	Query Directory for Microsoft Active Directory, Version 4.2.3	4.2.3-TIV-ADIENG-FP0003
TLMXTFP3.IND	CM Extension for Tivoli License Manager, Version 4.2.3	4.2.3-TIV-TLMEXT-FP0003
CMEXTFP3.IND	CM Endpoint Extension, Version 4.2.3	4.2.3-TIV-CMEXT-FP0003

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 49 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”
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”
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 3 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 50. 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 <i>IBM Tivoli Configuration Manager License Management Extension</i> .		

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

Example:

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

where:

-c CD-ROM/NewComponents

Specifies the path to the images on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 3 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 50.

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

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

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

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

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

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

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

- “SPB Patch Installer” on page 45
- “Software Distribution server command” on page 46
- “Software Distribution disconnected command” on page 46

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 51.

Table 51. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_INV_GUI_Fix.v4.2.3.FP03		
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.FP02		
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.FP03		
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.FP02		

Table 51. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_CCM_GUI_Fix.v4.2.3.FP03		
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.FP02		
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.FP03		
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.FP03		
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.FP03		
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.FP03		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP03		
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.FP03		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.

Table 51. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where JRE 1.3 is installed.
Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP03		
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.FP03		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_JRE_SOLARIS_IX86_Fix.v4.2.3.FP03		
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.FP03		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_L10N_Fix.v4.2.3.FP02		
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.

Notes:

- Fix Pack 3 packages are not provided for the following components:

- Tivoli_Web_Gateway_DB
- Tivoli_Web_Gateway_SRV
- Tivoli_WebUI

The related fixes are already included in the new Tivoli Web Gateway installation images, located under the /twg_installer directory.

- 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 3 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 3 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_FP03.xml` file for the fix pack located in the `/package` subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 3 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 52 on page 47.
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 52 on page 47 contains the names of the fix pack 3 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 52. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_INV_GUI_Fix.v4.2.3.FP03.spb	Tivoli_INV_GUI_Fix.v4.2.3.FP03
Tivoli_INV_GUI_L10N_Fix.v4.2.3.FP03.spb	Tivoli_INV_GUI_L10N_Fix.v4.2.3.FP02
Tivoli_APM_GUI_Fix.v4.2.3.FP03.spb	Tivoli_APM_GUI_Fix.v4.2.3.FP03
Tivoli_APM_GUI_L10N_Fix.v4.2.3.FP02.spb	Tivoli_APM_GUI_L10N_Fix.v4.2.3.FP02
Tivoli_CCM_GUI_Fix.v4.2.3.FP03.spb	Tivoli_CCM_GUI_Fix.v4.2.3.FP03
Tivoli_CCM_GUI_L10N_Fix.v4.2.3.FP02.spb	Tivoli_CCM_GUI_L10N_Fix.v4.2.3.FP02
Tivoli_SWDEP_AIX_Fix.v4.2.3.FP03.spb	Tivoli_SWDEP_AIX_Fix.v4.2.3.FP03
Tivoli_SWDEP_HP_Fix.v4.2.3.FP03.spb	Tivoli_SWDEP_HP_Fix.v4.2.3.FP03
Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP03.spb	Tivoli_SWDEP_LINUXPPC_Fix.v4.2.3.FP03
Tivoli_SWDEP_LINUX_IX86_Fix.v4.2.3.FP03.spb	Tivoli_SWDEP_LINUX_IX86_Fix.v4.2.3.FP03
Tivoli_SWDEP_LINUX_S390_Fix.v4.2.3.FP03.spb	Tivoli_SWDEP_LINUX_S390_Fix.v4.2.3.FP03
Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP03.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.3.FP03
Tivoli_SWDEP_NT_Fix.v4.2.3.FP03.spb	Tivoli_SWDEP_NT_Fix.v4.2.3.FP03
Tivoli_SWDEP_SOLARIS_Fix.v4.2.3.FP03.spb	Tivoli_SWDEP_SOLARIS_Fix.v4.2.3.FP03
Tivoli_JRE_SOLARIS_IX86.spb	Tivoli_JRE_SOLARIS_IX86
Tivoli_SWDEP_SOLARIS_IX86.spb	Tivoli_SWDEP_SOLARIS_IX86.423
Tivoli_SWDEP_SOLARIS_IX86_Fix.v4.2.3.FP03.spb ⁽¹⁾	Tivoli_SWDEP_SOLARIS_IX86.1.3.0
Tivoli_SWDEP_L10N_Fix.v4.2.3.FP02.spb	Tivoli_SWDEP_L10N_Fix.v4.2.3.FP02

Note: 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:

1. Tivoli_JRE_SOLARIS_IX86.spb. This package is a prerequisite for installing the Software Package Editor GUI on Solaris 8 and Solaris 9.
2. 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.

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_FP03.sql` and `h_inv_dbvendor_schema_423_FP03.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`

- h_inv_dbvendor_schema_423_FP01
- h_inv_dbvendor_schema_423_FP02

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
- h_inv_db2_schema_423_FP01.sql
- h_inv_db2_schema_423_FP02.sql
- h_inv_db2_schema_423_FP03.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 the tables, particularly MATCHED_SWARE, 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

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 plan to install IBM Tivoli License Manager Extension, or if you imported the IBM software catalog before installing Configuration Manager 4.2.3 Fix Pack 3, you must migrate the signatures belonging to the IBM software catalog. To do this, after having installed Configuration Manager 4.2.3 Fix Pack 3, perform the following steps:

1. Run the `inv_db_vendor_423_FP03.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 install IBM Tivoli License Manager Extension, proceed with the IBM Tivoli License Compliance Manager, Version 2.2, Fix Pack 2.2.0-TIV-TLCM-FP0001.

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-FP0003, 4.2.3-TIV-SWDSRV-FP0003, and 4.2.3-TIV-INV-FP0003 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-FP0003, 4.2.3-TIV-SWDSRV-FP0003, and 4.2.3-TIV-INV-FP0003 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 3 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-FP0003** Software Distribution fix pack to update the Software Distribution command line and GUI.

2. Install the **4.2.3-TIV-SWDGW-FP0003** Software Distribution gateway fix pack to update Windows endpoints at the next distribution.
3. Install the **4.2.3-TIV-APM-FP0003** 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 49.
5. Distribute the **Tivoli_login_control_4.2.3.spb** software package to the endpoints.
6. Type the following command to enable the feature on the specified endpoint:
`wep endpoint_name set allow_distribution_control on`

where:

endpoint_name

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

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

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

Configuring the concurrent login feature

After installing the concurrent login feature as described in “Installing the concurrent login feature” on page 50, you can configure the registry keys created on the endpoints with the **Tivoli_login_control_4.2.3.spb** software package.

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

- `HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification\upcall`
- `HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification\wmansd`

To view and edit the registry keys, use the **wdepccm** command. For more information on this command, see “wdepccm” on page 55.

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."

wdepccm

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: `wdepccm [-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
- wspmvdta
- 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 62
- 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 63.

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 Inventory

This section contains new and updated information for IBM Tivoli Configuration User's Guide for Inventory:

APAR IY88685

Add a new chapter called "Installing and uninstalling Common Inventory Technology (CIT)". The new chapter contains the following text:

Installing Common Inventory Technology (CIT): Tivoli Configuration Manager 4.2.3 Fix pack 3 requires Common Inventory Technology (CIT) Version 2.3. When a Tivoli Configuration Manager activity is started on a workstation, Tivoli Configuration Manager checks if Common Inventory Technology (CIT) is already installed and installs it, if it is not found. CIT is installed using default paths, so during the installation the following directories are created:

CIT ini file directory

Where the cit.ini file and other programs needed during the installation are stored. This directory is /etc/cit on UNIX platforms, and %WINDIR%\cit on Windows platforms. The cit.ini file contains the list of each exploiter which installed CIT.

CIT product binaries directory

Where the binary files of the product are stored. This directory is /opt/tivoli on UNIX, and C:\Program Files\Tivoli\cit on Windows platforms.

CIT log and trace files directory

Where the log and trace files of the product are stored. This directory is /usr/ibm/tivoli/common/CIT/logs on UNIX platforms, and C:\Program Files\ibm\tivoli\common\CIT\logs on Windows platforms.

If you update from IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 1 to IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 3, the data created with CIT 1.1.1 is removed. For example, files such as wscanner*, libInvHW.*, libInvSW.* and libInvReg.* are removed from the lcf_root/inv/SCAN directory.

To enable the Inventory endpoint traces, run the **wdistinv** command using the **inv_ep_debug** option. Every time an Inventory scan is run on the endpoint, a log file called INVxxxxx.LOG (where xxxxx is the scan_id) is created under the inv/SCAN directory.

As an alternative to using default paths, you can install the CIT binary files in other directories by performing the following steps:

1. If you have already installed CIT manually when installing IBM Tivoli Configuration Manager, Version 4.2.3 Fix Pack 2, run the following command to remove the installed software packages:

```
$BINDIR/./generic/inv/SCRIPTS/CIT_import.pl -uninst
```

If you have not previously installed CIT, move to step 2 on page 65.

2. On the Inventory server, run the following command:

```
$BINDIR/./generic/inv/SCRIPTS/CIT_import.pl 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.

3. As a result, two software packages are created in a new profile manager called Inventory_CIT_PM.
4. On the Inventory server, run the following command to install the two software packages (CIT_Preinstall.CIT and CIT.2.3.1012) on custom paths:

```
winstsp -f -DCIT_ExploiterID=ITCM -DCIT_DestinationDirectory=/mydir  
@CIT_Preinstall.CIT @Endpoint:ep1
```

where:

/mydir

Is the directory on the endpoint where CIT is installed.

ep1 Is the name of the endpoint.

5. On the Inventory server, run the following command:

```
winstsp -f @CIT.2.3.1012 @Endpoint:ep1
```

where:

ep1 Is the name of the endpoint.

This procedure must be completed before performing any Inventory or Tivoli License Manager operation based on CIT, because also Tivoli License Manager can install CIT on the same workstation. By following this procedure you can customize the CIT product binary directory, but you cannot customize the cit.ini directory and the CIT log files directory.

Uninstalling Common Inventory Technology (CIT): You can uninstall CIT using the Software Distribution component of IBM Tivoli Configuration Manager. This operation requires uninstalling CIT for all its registered exploiters. Before uninstalling CIT, verify that it is no longer required by any of the exploiters listed in the cit.ini file.

You must uninstall CIT software packages in the following order.

1. Uninstall the CIT_Preinstall.CIT software package for each registered exploiter. Each CIT exploiter is registered in the cit.ini file with the **CITExploiterID** key. The string identifying IBM Tivoli Configuration Manager is as follows:
CITExploiterID=ITCM.
2. Uninstall the CIT.2.3.1012 software package

To uninstall CIT using the Software Distribution component of IBM Tivoli Configuration Manager, perform the following steps:

1. Set the environment to run the disconnected Software Distribution command line.
2. Uninstall CIT for each exploiter registered in the cit.ini file. To perform this operation, run the following commands:
 - a. `set CIT_ExploiterID=exploiter_ID`
where
exploiter_ID
Is the ID of the exploiter as registered in the cit.ini file. The ID for IBM Tivoli Configuration Manager is **ITCM**.
 - b. `wdrmvsp -f CIT_Preinstall.CIT`
 - c. Repeat steps 2a and 2b for each registered exploiter.

3. After uninstalling the CIT_Preinstall.CIT software package for each registered exploiter, type the following command to complete the uninstallation:

```
wdrevsp -f @CIT.2.3.1012
```

Table 53 lists the errors which might occur if you do not correctly manage the list of exploiters in the cit.ini file:

Table 53. CIT return codes

Return code	Error reason	Recovery action
11	At least one exploiter is still registered in the cit.ini file.	Remove the exploiter ID as explained in step 2 on page 65.
12	You have not specified the exploiter name.	Specify the exploiter name.
13	The exploiter you specified is unknown.	Check the exploiter name in the cit.ini file and specify it again.

Managing the Inventory bundle dependency set:

You can add, remove, and verify the automatic download of IBM Tivoli License Manager and CIT using the standard Framework bundle dependency set. To perform this operation, use the **winvdeps** command.

winvdeps:

Specifies dependency sets that a method needs to run.

Syntax: **winvdeps -a depset**

winvdeps -r depset

winvdeps -s depset

Description: The **winvdeps** command specifies dependencies that a method needs to run. You can use the command to add, remove, and verify a dependency set.

Options:

-a Adds a dependency set.

-r Removes a dependency set.

-s Verifies the presence of a dependency set.

depset The name of the dependency set. Supported values are as follows:

CIT The name of the dependency set for CIT.

TLM The name of the dependency set for TLM.

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

0 Indicates that **winvdeps** started successfully.

-1 Indicates that **winvdeps** failed due to a generic error.

Examples: To accept add the CIT dependency set, enter the following command:

winvdeps -a CIT

See Also: None.

Database Schema Reference

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

Defect 58465

In Chapter 4 "Queries", in the section "Pervasive device queries" the following information should be added:

DEVICES_NOT_BOOTSTRAPPED_QUERY

Returns all the Nokia devices which have not yet been bootstrapped.

Runs against the table DEVICE.

The column in this query is as follows:

BOOTSTRAPPED

Defect 58465

In Chapter 5 "Configuration repository tables", in the section "Pervasive device tables" the following information should be added:

DEVICE

Stores the details of the pervasive devices. One entry exists for each device registered on the Web Gateway.

Populated by a device creation on the Tivoli server, by an auto-enrollment, or by a Provisioning job successfully run.

The columns in this table are as follows:

COMPUTER_SYS_ID
DEVICE_NAME
FRIENDLY_NAME
DEVICE_CLASS_ID
LABEL
SERIAL_NUMBER
MAKE
MODEL
DEV_DESCRIPTION
DEVICE_STATUS
BOOTSTRAPPED
NEW_DEVICE
LAST_EVALUATED_TIMESTAMP
JOB_PROFILE_IGNORED
NOTIFICATION_TYPE
DEVICE_NAME_INUSE
ENROLLED_TIMESTAMP
CREATION_TIMESTAMP
LAST_MODIFIED

Defect 58507

In Chapter 4 "Queries", in the section "Pervasive device queries" the following information should be added:

MO_TARM_LOCK_QUERY

Returns information on the MO_TARM object of the Nokia devices.

Runs against the view MO_TARM_LOCK_VIEW.

The column in this query is as follows:

LABEL
COMPUTER_SYS_ID
LOCK_LEVEL
MAX_AUTO_LOCK
AUTO_LOCK
RECORD_TIME

Defect 58507

In Chapter 5 "Configuration repository tables", in the section "Pervasive device tables" the following information should be added:

MO_TARM_LOCK

Stores the device information about the lock status.

The columns in this table are as follows:

COMPUTER_SYS_ID
LOCK_LEVEL
MAX_AUTO_LOCK
AUTO_LOCK
RECORD_TIME

Defect 58507

In Chapter 3 "Configuration repository views", in the section "Pervasive device views" the following information should be added:

MO_TARM_LOCK_VIEW

Returns information on the MO_TARM object of the Nokia devices.

Based on the MO_TARM_LOCK table.

The columns of this view are as follows:

LABEL
COMPUTER_SYS_ID
LOCK_LEVEL
MAX_AUTO_LOCK
AUTO_LOCK
RECORD_TIME

Feature MR0826056352

In Chapter 5 "Configuration repository tables", in the section "Inventory tables", the following information should be added to the **LPAR** table:

Add to the list of the table columns:

- NODECAP_IN_CORES
- LPARCAP_IN_CORES
- SHAREDPC_IN_CORES

Feature MR0826056352

In Chapter 5 "Configuration repository tables", in the section "Inventory tables", the following new section should be added to the chapter:

PHYSICAL_PROCESSOR

Displays 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.

The columns in this table are as follows:

COMPUTER_SYS_ID
PROCESSOR_ID
CORE_PER_PK_COUNT
LOG_PROC_PER_CORE
MANUFACTURER
FAMILY
TYPE
CPU_FREQ
L2_CACHE_SIZE
L3_CACHE_SIZE
BRANDNAME
SIGNATURE
RECORD_TIME

Feature MR0826056352

In Chapter 3 "Configuration repository views", in the sections **LOGICAL_PARTITIONS_VIEW** and **LPAR_SYSTEMS_VIEW**, the following information should be added:

Add the following column to the **LPAR_SYSTEMS_VIEW**:

- NODECAP_IN_CORES

Add the following columns to the **LOGICAL_PARTITIONS_VIEW**:

- LPARCAP_IN_CORES
- NODECAP_IN_CORES
- SHAREDPC_IN_CORES

Feature MR0826056352

In Chapter 3 "Configuration repository views", in the section **PROCESSOR_NUM_VIEW**, the following information should be added:

Based on the **COMPUTER** e **PHYSICAL_PROCESSOR** tables.

Add the following columns to the **PROCESSOR_NUM_VIEW**:

- NUM_CORE
- NUM_THREAD

Feature MR0826056352

In Chapter 3 "Configuration repository views", the following new section for the **PHYSICAL_PROCESSOR_VIEW** should be added:

PHYSICAL_PROCESSOR_VIEW

Displays 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.

Based on the **COMPUTER** and **PHYSICAL_PROCESSOR** tables.

The columns in this view are as follows:

- TME_OBJECT_LABEL,
- TME_OBJECT_ID
- COMPUTER_SYS_ID
- BRANDNAME
- CORE_PER_PK_COUNT
- LOG_PROC_PER_CORE
- RECORD_TIME

Feature MR0826056352

In Chapter 4 "Queries", in the section "Inventory queries", the following information should be added to the **PROCESSOR_NUM_QUERY**:

Add to the list of the query columns:

- NUM_CORE
- NUM_THREAD

Feature MR0826056352

In Chapter 3 "Configuration repository views", in the section "Historical Inventory views", the following information should be added:

H_PHYSICAL_PROCESSOR_VIEW

Feature MR0826056352

In Chapter 5 "Configuration repository tables", in the section "History tables for Inventory", the following information should be added:

H_PHYSICAL_PROCESSOR

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

- 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' Guide for Deployment Services.

Documentation problems and corrections contained in previous fix packs**User's Guide for Inventory**

This section contains new and updated information for IBM Tivoli Configuration 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 54. WSUS patch management files

SUS Files	WSUS Files
mssecure.cab	wsusscan.cab
mbsacli.exe	WindowsUpdateAgent20-x86.exe
ApprovedItems.txt	ApprovedChanges.txt

APAR IY81403

The "temporary tables" feature does not apply on Sybase and Informix®, because these 2 RDBMS vendor do not clean up the contents of a temporary table after the commit; only after releasing the session to the database. So, you will see some messages like:

Sybase Server Error: Msgno 3621 Level 10 State 0 Command has been aborted due to "unique constraint violation" errors caused by attempts to insertrows already present in the database.

This error can cause a decrease in performance.

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.

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

- wspmvdta
- wswdcfg

The changes to these commands are documented in the *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution*.

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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