

IBM Tivoli Configuration Manager



Readme File for Fix Pack 6 - PTF U814151

Version 4.2.2

IBM Tivoli Configuration Manager



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Version 4.2.2

Note

Before using this information and the product it supports, read the information in "Notices" on page 55.

IBM Tivoli Configuration Manager 4.2.2 Readme for Fix Pack 6

This edition applies to fix pack 6 (PTF U814151) for version 4, release 2, modification level 2 of IBM Tivoli Configuration Manager (program number 5724-C06).

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Chapter 1. IBM Tivoli Configuration Manager 4.2.2 Readme File for Fix Pack 6 (PTF U814151)

This readme file provides important information about Fix Pack 6 (PTF U814151) for IBM® Tivoli® Configuration Manager Version 4.2.2. 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 4.2.2. This fix pack fixes a variety of defects on *IBM Tivoli Configuration Manager* components.

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

About this release

This section includes the following topics:

- “CD-ROM structure”
- “New features” on page 2
- “Backward compatibility issues” on page 5
- “Product compatibility” on page 6
- “Limitations” on page 6
- “Limitations in DBCS environments” on page 6
- “Product fix history” on page 7

CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 6 includes **two** CD-ROMs as detailed in the following tables:

Table 1. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 6 (CD 1 of 2)

Directory or path	Contents
/docs	Readme file.
/images/INVENTORY /images/MCOLLECT /images/SWD	Images required for Configuration Manager in this fix pack.
/xml	The XML file to be used by the ISMP installation program.

Table 2. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 6 (CD 2 of 2)

Directory or path	Contents
/JarVersion	Scripts to retrieve and display the version of the .jar files currently installed.
/LoginControl	Software package block (SPB) and executable files used to implement the concurrent login feature.
/package	Software package block (SPB) files used to patch GUI components and the XML descriptor file.
/PocketPC	Files required for enabling the Pocket PC Device feature.

Table 2. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 6 (CD 2 of 2) (continued)

Directory or path	Contents
/spb_installer	SPB Patch Installer that installs SPB interim fixes locally and the SPB Patch Installer Guide.

New features

This section contains a cumulative list of new features introduced in the current fix pack and in the previous fix packs.

- “New features in this fix pack”
- “Features in previous fix packs”

New features in this fix pack

The following new feature has been introduced in this fix pack:

Table 3. Customer enhancement request references in this fix pack

Cannot start JVM with specific environment variables	Feature 59314
--	---------------

Cannot start JVM with specific environment variables - Feature 59314

Editing the apmJNI.ini file, you can decide if you want to start the Java Virtual Machine (JVM) with specific environment variables already defined. The key you need to use in the apmJNI.ini file is the following:

```
env:variable1=value1
```

and the Java Virtual Machine (JVM) starts with this environment variable set.

The apmJNI.ini file is read after restarting the Activity Planner.

Note: On AIX platforms, to correctly start the Activity Planner with JRE version 1.3.1 SR10 or later, the LDR_CNTRL variable must have also the value USERREGS set. Activity Planner automatically adds this value to the LDR_CNTRL variable except for the case when this variable is defined in the apmJNI.ini file. If apmJNI.ini defines the LDR_CNTRL variable, it must also contain USERREGS to work properly with JRE 1.3.1 SR10 or later. See the following example:

```
env:LDR_CNTRL=MAXDATA=0x80000000@USERREGS
```

You can verify that variables set in the apmJNI.ini file are passed to JVM checking the apm_core.log. In this file the environment variables are traced.

Features in previous fix packs

The following new features have been introduced in previous fix packs.

Table 4. Customer enhancement request references in previous fix packs

Specifying the path where a single file is saved on the destination system	APAR IY68180
Cancelling an activity plan in Starting state	APAR IY70368
Concurrent login feature	Feature 54613
Displaying the .jar files version	Feature 55204
Modify cancel button on endpoint notification panel	Feature 55522

Table 4. Customer enhancement request references in previous fix packs (continued)

Immediate start of distribution for "unique" targets in conditioned activities	Feature 56050
Stop on failure check box	Feature 56087
Cancel as preferred final status for a plan	Feature 56137
New 32-bit MRMBIOS.EXE	Feature 180357
Customize the source host for Data Moving Endpoint to Endpoint send and delete	Feature 57318
Configure the Ignore option results in APM	Feature 58122
Solaris x86 support	Feature

Specifying the path where a single file is saved on the destination system - APAR IY68180

According to the new product design, files moved using data moving are saved to a default directory. Using this option you can specify the path where a single file is saved on the destination system. In the Software Distribution command line the **-G** option has been added to the **wspmvdata** command, while in the Activity Planner and Software Distribution GUI, the **Modify Destination Path** check box has been added for the send and retrieve operations.

If you specify the **-G** option or select the **Modify Destination Path** check box, the file is saved on the destination system according to the following naming convention: *name_endpoint_timestamp_distribution_id.extension*. If you do not specify the **-G** option or do not select the **Modify Destination Path** check box, the default behavior applies and the retrieved file is saved with its original name to a directory on the destination system named according to the following convention: *endpoint_distribution_id_timestamp*.

Cancelling an activity plan in Starting state - APAR IY70368

In the released version of the product, when you issue a cancel command for an activity plan, the command is queued and subsequently performed. If any activity in the plan to be cancelled is being submitted, the cancel command for that activity is performed only at the end of the submission, resulting in the possibility that the distribution is sent to some targets.

To solve this problem, the cancel command is now performed while the activity is still being submitted. This operation is performed only when the cancel command is requested for the entire plan, and not when the operation is requested only for a subset of the activities in the plan.

Concurrent login feature - 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 28.

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 issue 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 on IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 2 CD 2.

Modify cancel button on endpoint notification panel - Feature 55522

With this feature you can close the **Software Distribution** panel in a different way. On the **Software Distribution** panel when enabling the User notification, the X in the title bar of the panel has been removed, and the **Cancel** button has been replaced by the **Reset** button, that resets the original values, if they have been changed. The only way to close the panel is to click **OK**.

Immediate start of distribution for "unique" targets in conditioned activities- Feature 56050

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.

Stop on failure check box - Feature 56087

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.

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.

New 32-bit MRMBIOS.EXE - Feature 180357

With this feature the Windows 64-bit platforms support has been extended. The old 16-bit mrmmbios.exe file has been now replaced by a 32-bit file having the same name, and using new device drivers. You can use the mrmmbios.exe file to scan new platforms such as AMD 64 and Itanium 64.

Customize the source host for Data Moving Endpoint to Endpoint send and delete - Feature 57318

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
```

Configure the Ignore option results in APM - Feature 58122

A new checkbox 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 checkbox will be enabled only when the "Ignore" checkbox is set. When the checkbox is set, all targets on which the validation fails will be marked as 'failed'. If this checkbox is not checked (default) the old behavior will be in effect: targets for which the validation failed will be marked as successful.

Solaris for Intel 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. As a prerequisite you need to install the 4.1.1-LCF-0032 Framework patch on your endpoints.

Backward compatibility issues

This fix pack generates no compatibility issues.

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 4.2.2 Fix Pack 6 was tested using Tivoli Management Framework, Version 4.1.1 plus the following interim fixes:

- 4.1.1-TMF-0090 interim fix for Tivoli management region servers, managed nodes, and gateways.
- 4.1.1-TMF-0091 interim fix for Mobile, JRIM, JCF, MDist 2 GUI, and Tivoli Desktop for Windows.
- 4.1.1-LCF-0049 interim fix for endpoints.

Limitations

APAR IY88658

The SSL connection is not supported for the Enterprise Directory Query component.

Defect 56606

Create a profile manager and define as subscribers a resource group containing valid users. Create a software package and distribute it without specifying any target type. The distribution fails and the following error message is displayed:

DISSE0035E No target is specified or no target qualifies for the operation.

Check the log file for further information.

Defect 183012

On AIX platforms, if a network adapter is configured with two different IP addresses, the Inventory scan does not report the correct value for the subnet mask. The problem occurs because AIX does not provide a programmatic mechanism to retrieve these subnet masks. This limitation applies to all Inventory releases.

Defect 183229

When distributing an inventory scan using the **Update data** option, the **BOOT_TIME** and **ALIAS** values are not reported correctly from the Inventory scan.

Limitations in DBCS environments

This section describes limitations that affect DBCS environments found during the use of IBM Tivoli Configuration Manager, Version 4.2.2, GA version, which were not reported in the *IBM Tivoli Configuration Manager: Release Notes*.

Defect 53393

When migrating from IBM Tivoli Configuration Manager 4.2.1 Software Distribution language pack Japanese 4.2.1 to IBM Tivoli Configuration Manager 4.2.2 Software Distribution language pack Japanese 4.2.2, migration fails with the following error message:

FRWI10003E Fail to install product.

Workaround: Before installing Software Distribution language pack Japanese 4.2.2, remove Software Distribution language pack Japanese 4.2.1 by running the following command:

```
wuninst SWDIS_110n_ja node -rmfiles
```

Note: On UNIX platforms, if the software distribution catalog directory has been changed from the default directory, the command does not work properly. In this case, manually remove the software distribution catalog directory.

Product fix history

IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 6 supersedes all interim fixes and fix packs released previously for the product. The following sections include all interim fixes and fix packs shipped since the IBM Tivoli Configuration Manager, Version 4.2.2 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 12

Fixes contained in this fix pack

Table 5 lists the fixes included in this fix pack:

Table 5. Interim fixes included in this fix pack

Interim fix	Component/Service
4.2.2-TIV-INV-FP0006	Inventory, Version 4.2.2
4.2.2-TIV-INVGW-FP0006	Inventory Gateway, Version 4.2.2
4.2.2-TIV-CLL-FP0006	Scalable Collection Services, Version 4.2.2
4.2.2-TIV-SWDSRV-FP0006	Software Distribution, Version 4.2.2
4.2.2-TIV-SWDGW-FP0006	Software Distribution Gateway, Version 4.2.2
4.2.2-TIV-SWDJPS-FP0006	Software Package Editor, Version 4.2.2
4.2.2-TIV-APM-FP0006	Activity Planner, Version 4.2.2
4.2.2-TIV-CCM-FP0006	Change Manager, Version 4.2.2
4.2.2-TIV-TRMSRV-FP0006	Resource Manager, Version 4.2.2
4.2.2-TIV-TRMGW-FP0006	Resource Manager Gateway, Version 4.2.2
4.2.2-TIV-WEB-FP0006	Web Interface, Version 4.2.2
4.2.2-TIV-PMSRV-FP0006	Pristine Manager 4.2.2
4.2.2-TIV-PMGW-FP0006	Pristine Manager Gateway 4.2.2
4.2.2-TIV-DQY-FP0006	Directory Query 4.2.2

Inventory: The following APARs and defects for Inventory were fixed:

Table 6. Inventory APARs and defects included in this fix pack

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-TIV-INV-FP0006 and 4.2.2-TIV-INVGW-FP0006				
211375	IZ00818	IZ04528	IZ05392	IZ08774

The following section describes each APAR or defect in detail:

Defect 211375

Abstract:

Missing privileges for the **invtiv** user account

Error Description:

When running the **inv_ora_schema.sql** script against an Oracle database version 10g , you might receive the following error:

ERROR at line 1:
ORA-01031: insufficient privileges

The error occurs when the script tries to create a view.

Additional information:

The sys user must logon as **sysdba** and run the following command:

```
GRANT CREATE SYNONYM TO invtiv identified by tivoli;  
commit;  
GRANT CREATE VIEW TO invtiv identified by tivoli;  
commit;
```

APAR IZ00818

Abstract:

Corrupted buffer on Windows 2003 server when scanning IP address

Error Description:

When scanning IP addresses using WMI, a corrupted buffer is returned by WMI, causing the hardware scan to hang.

Additional information:

Set the environment variable NOTUSEWMIFORIP = 1 as system variable (a reboot of the workstation might be necessary) or create a flag file called NOTUSEWMIFORIP under the wscanner working directory, which is usually *inv\SCAN*.

APAR IZ04528

Abstract:

Missing "where" when updating the H_SYS_INSTANCE table

Error Description:

A missing "where" in the SQL update statement on the H_SYS_INSTANCE table causes the following error in Oracle:

```
SQL Command: update H_SYS_INSTANCE set COMPUTER_SYS_ID =  
:COMPUTER_SYS_ID, TME_OBJECT_ID = :TME_OBJECT_ID, TME_OBJECT_LABEL =  
:TME_OBJECT_LABEL  
ORA-00001: unique constraint (INV.HSYSINSTANCE_PK) violated  
00004622 [Thu Aug 23 16:00:38 2007] Trace Message - Connection ID::  
FRWRA0017E The RDBMS server failed to parse a SQL command  
string.
```

APAR IZ05392

Abstract:

The -z option is not documented in the command usage

Error Description:

The -z option is not documented for the **wsetinvdh** and **wgetinvdh** commands.

Additional information:

The -z option in the **wsetinvdh** and **wgetinvdh** commands can be used as follows:

-z *debug_level*

Enables or disables the logging activity of the status collector.

where *debug_level* can assume one of the following values:

0 Disables the logging activity of the status collector.

A value bigger than 0

Enables the logging activity of the status collector.

The generated log file is stored on the Inventory Data Handler workstation under the following path:

Windows

/temp/scollect.log

UNIX /tmp/scollect.log

APAR IZ08774**Abstract:**

Data Handler performance issue

Error Description:

The `iom_timed_open()` operation hangs on the gateway collectors on a random basis, when too many input threads (**wcollect -i**) are configured on the Inventory Data Handler. When this hang occurs, all the inventory data collection is blocked until the gateway collectors are restarted. The problem does not occur if the number of input threads in the Inventory Data Handler is set to 1.

Scalable Collection Service: The following APARs for Scalable Collection Service were fixed:

Table 7. Scalable Collection Service APARs included in this fix pack

Scalable Collection Service, Version 4.2.2, 4.2.2-TIV-CLL-FP0006				
IY99130	IZ02945			

The following section describes each APAR in detail.

APAR IY99130**Abstract:**

CLLFW0029E: Failed to open directory

Error Description:

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

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

APAR IZ02945**Abstract:**

Gateway collector restart when endpoint aborts the communication

Error Description:

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

Software Distribution: The following APARs for Software Distribution were fixed:

Table 8. Software Distribution APARs included in this fix pack

Software Distribution, Version 4.2.2, 4.2.2-TIV-SWDSRV-FP0006				
IZ03032				

Table 8. Software Distribution APARs included in this fix pack (continued)

Software Distribution Gateway, Version 4.2.2, 4.2.2-TIV-SWDGW-FP0006				
IZ01595	IZ01673	IZ04234		
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-TIV-SWDEP-FP0006				
IZ01595	IZ01673	IZ03869	IZ04234	

The following section describes each APAR in detail.

APAR IZ01595

Abstract:

Software Distribution does not manage Access Control Lists

Error Description:

The distribution of a software package that replaces, on a UNIX endpoint, a file that already has the ACL permissions set, completes with failure.

Additional information:

After the fix, Software Distribution cannot manage Access Control Lists. Therefore, it does not consider this situation to be an error and proceeds with the distribution.

APAR IZ01673

Abstract:

MoveFileEx process fails if booting.lst already exists

Error Description:

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

APAR IZ03032

Abstract:

Oracle 10.2.0.3 - TCM activity plan submit fails

Error Description:

Using Oracle 10.2.0.3 UTF8 database, the submission of an activity plan, having credentials bigger than 4000 bytes, fails.

APAR IZ03869

Abstract:

Hang on a Linux workstation with the disconnected SPE

Error Description:

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

APAR IZ04234

Abstract:

Slow performance when installing an MSI product with verbose logging

Error Description:

The installation of an MSI product, with verbose logging, performed by

Software Distribution, is slower than the manual installation. The performance problem is caused by the way Software Distribution traces the verbose logging.

Activity Planner: The following APARs for Activity Planner were fixed:

Table 9. Activity Planner APARs included in this fix pack

Activity Planner, Version 4.2.2, 4.2.2-TIV-APM-FP0006				
IZ01919	IZ01947	IZ02679	IZ03951	IZ04871
IZ08928				

The following section describes each APAR in detail.

APAR IZ01919

Abstract:

APM timeout is not honored by the APM engine

Error Description:

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

APAR IZ01947

Abstract:

Improve performance of APM executer main thread

Error Description:

The activity planner performance has been improved when too many execution windows are evaluated in large activity plans. This problem occurred when starting at the same time many activity plans having conditioned targets.

APAR IZ02679

Abstract:

APM plans are not resumed

Error Description:

When two "pause" actions for the same activity plan and activity are managed, one following the other, a wrong "previousStatus" is put in the database and the activity can no longer be resumed.

APAR IZ03951

Abstract:

Administrator names are case-sensitive in APM

Error Description:

Activity Planner finds the wrong administrator name, when there are two Tivoli administrator names that are identical, except for lower or upper case, such as "Root" and "root". After running a command, the CLI or GUI might return the error "no role", even if you have the correct role assigned.

APAR IZ04871

Abstract:

Activity run outside the execution window interval

Error Description:

If you manually resume an activity, which is outside its execution window interval and is in paused state, the activity is wrongly restarted.

APAR IZ08928**Abstract:**

Activity Planner hang

Error Description:

The Activity Planner running on Solaris systems might hang and not proceed until it is recycled. The Activity Planner correctly posts the report to the queue, but the "notify" method for some reason does not work and the APM Handler, which is in wait mode, does not wake up.

Change Manager: The Change Manager Version 4.2.2 component does not currently contain any fixed APARs.

Resource Manager: The Resource Manager, Version 4.2.2 and Resource Manager Gateway, Version 4.2.2 components do not currently contain any fixed APARs.

Web Interface: Table 10 lists the APAR that was fixed for the Web Interface:

Table 10. Web Interface APARs and defects included in this fix pack

Web Interface, Version 4.2.2, 4.2.2-TIV-WEB-FP0006				
IZ02348				

APAR IZ02348**Abstract:**

Java hang of WebUI

Error Description:

When logging on to the Web Interface and making a selection of software to download, as soon as you click the install, remove, or verify button, a blank pop-up window is displayed and the browser hangs. The problem occurs on a workstation on which JRE version 5 or later is installed.

Pristine Manager and Pristine Manager Gateway: The Pristine Manager, Version 4.2.2 and the Pristine Manager Gateway, Version 4.2.2 components do not currently contain any fixed APARs.

Directory Query: The Directory Query Version 4.2.2 component does not currently contain any fixed APARs.

Fixes contained in previous fix packs and interim fixes

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

Table 11. Inventory APARs and defects included from 4.2.2-INV-FP01 and 4.2.2-INVGW-FP01

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-INV-FP01 and 4.2.2-INVGW-FP01				
173514	174581	174635	174642	174654
175123	175167	175168	175507	175648

Table 11. Inventory APARs and defects included from 4.2.2-INV-FP01 and 4.2.2-INVGW-FP01 (continued)

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-INV-FP01 and 4.2.2-INVGW-FP01				
176418	176561	177490		
IY59253	IY61580	IY62206	IY63636	IY64626
IY64677	IY65052	IY65127	IY65261	IY65415
IY65476	IY65759	IY66256	IY66569	IY66638
IY66722	IY66780	IY66782	IY66998	IY67003
IY67049	IY67171	IY67728	IY67806	IY68056
IY68383	IY68584	IY68619	IY68757	IY68772
IY68793	IY68842	IY68885	IY69103	IY69341
IY69344	IY69466	IY69517	IY69882	IY70006
IY70008	IY70234	IY70283	IY70284	IY70308
IY70320	IY70324	IY70604	IY70846	IY70912
IY70916	IY70951	IY71000	IY71001	IY71015
IY71336	IY71807	IY72224	IY72269	IY72790

Table 12. Inventory APARs included from 4.2.2-INV-0007 and 4.2.2-INVGW-0007

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-INV-0007 and 4.2.2-INVGW-0007				
IY72989	IY73290	IY73657	IY74693	IY74730
IY74769	IY76097	IY76155		

Table 13. Inventory APARs included from 4.2.2-INV-FP02 and 4.2.2-INVGW-FP02

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-INV-FP02 and 4.2.2-INVGW-FP02				
IY72944	IY73560	IY73562	IY74343	IY74421
IY75165	IY75168	IY75169	IY75238	IY75350
IY75358	IY75611	IY76004	IY76150	IY76421
IY76623	IY76778	IY77367	IY77378	IY77438
IY77522	IY77660	IY77822	IY78108	IY78414
IY79236				

Table 14. Inventory APARs included from 4.2.2-INV-0010 and 4.2.2-INVGW-0010

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-INV-0010 and 4.2.2-INVGW-0010				
IY78778	IY78940	IY80608	IY80625	IY81297

Table 15. Inventory APARs included from 4.2.2-INV-FP03 and 4.2.2-INVGW-FP03

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-INV-FP03 and 4.2.2-INVGW-FP03				
IY79372	IY79780	IY79796	IY79890	IY80066
IY80837	IY81359	IY81437	IY81636	IY81879
IY82061	IY82415	IY82479	IY82635	IY82838
IY82924	IY83074	IY83087	IY83338	IY83381
IY84708	IY84735			

Table 16. Inventory APARs included from 4.2.2-TIV-INV-FP0004 and 4.2.2-TIV-INVGW-FP0004

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-TIV-INV-FP0004 and 4.2.2-TIV-INVGW-FP0004				
IY84371	IY84708	IY84735	IY85530	IY85784
IY86092	IY86231	IY86785	IY87279	IY87283
IY89087	IY89270	IY90419	IY90507	IY90993
IY91186				

Table 17. Inventory APARs included from 4.2.2-TIV-INV-FP0005 and 4.2.2-TIV-INVGW-FP0005

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-TIV-INV-FP0005 and 4.2.2-TIV-INVGW-FP0005				
IY91545	IY92261	IY93587	IY94770	IY94855
IY95520	IY96080	IY96767	IY96989	IY97534
IY97613				

Table 18. Scalable Collection Service APARs included from 4.2.2-CLL-FP01

Scalable Collection Service, Version 4.2.2, 4.2.2-CLL-FP01				
IY66400	IY69816	IY70039		

Table 19. Scalable Collection Service APARs included from 4.2.2-CLL-FP02

Scalable Collection Service, Version 4.2.2, 4.2.2-CLL-FP02				
IY77219				

Table 20. Scalable Collection Service APARs included from 4.2.2-CLL-0003

Scalable Collection Service, Version 4.2.2 4.2.2-CLL-0003				
IY79215	IY81056			

Table 21. Scalable Collection Service APARs included from 4.2.2-CLL-FP03

Scalable Collection Service, Version 4.2.2, 4.2.2-CLL-FP03				
IY79101	IY84553			

Table 22. Scalable Collection Service APARs included from 4.2.2-TIV-CLL-FP0004

Scalable Collection Service, Version 4.2.2, 4.2.2-TIV-CLL-FP0004				
IY86174	IY87041	IY87975		

Table 23. Scalable Collection Service APARs included from 4.2.2-TIV-CLL-FP0005

Scalable Collection Service, Version 4.2.2, 4.2.2-TIV-CLL-FP0005				
IY92105				

Table 24. Software Distribution APARs and defects included from 4.2.2-SWDSRV-0001, 4.2.2-SWDGW-0001, and 4.2.2-SWDEP-0001

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-0001				
53145	IY63953	IY65973	IY67238	IY68130
IY68180	IY68271			
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-0001				
IY64746	IY66754	IY66786		
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-0001				
IY64746	IY66754	IY66786		

Table 25. Software Distribution APARs and defects included from 4.2.2-SWDSRV-FP01, 4.2.2-SWDGW-FP01, 4.2.2-SWDJPS-FP01, and 4.2.2-SWDEP-FP01

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-FP01				
50612	53158	53237	53601	54732
55053				
IY62538	IY64478	IY64629	IY65524	IY66475
IY67292	IY67569	IY68170	IY68396	IY68180
IY68626	IY69109	IY69196	IY70587	IY70596
IY70844	IY71401	IY71443	IY71461	IY71795
IY72216	IY72454	IY71403		
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-FP01				
53439				
IY64483	IY64706	IY65274	IY65596	IY66578
IY66652	IY66698	IY67113	IY67173	IY67996
IY68051	IY68282	IY68290	IY68380	IY68411
IY68587	IY68700	IY68864	IY69280	IY69401
IY70198	IY70206	IY70495	IY70505	IY71010
IY71192	IY71983	IY71991	IY72698	IY72786
Software Package Editor, Version 4.2.2, 4.2.2-SWDJPS-FP01				
53526	IY67722	IY67890	IY68161	IY68433
IY72632				
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-FP01				
IY67416	IY67572	IY72490	IY73227	

Table 26. Software Distribution APARs included from 4.2.2-SWDSRV-FP02, 4.2.2-SWDGW-FP02, 4.2.2-SWDJPS-FP02, and 4.2.2-SWDEP-FP02

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-FP02				
IY73540	IY73905	IY74805	IY74847	IY75068
IY75474	IY75754	IY76315	IY76698	IY77069
IY77071	IY77172	IY77526	IY77936	IY78598
IY78897	IY79008			
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-FP02				
IY73006	IY73565	IY74170	IY74392	IY74578

Table 26. Software Distribution APARs included from 4.2.2-SWDSRV-FP02, 4.2.2-SWDGW-FP02, 4.2.2-SWDJPS-FP02, and 4.2.2-SWDEP-FP02 (continued)

IY74585	IY74764	IY74801	IY75145	IY75236
IY75263	IY75474	IY75754	IY76010	IY76041
IY76100	IY76694	IY76831	IY77172	IY77261
IY77363	IY77516	IY77601	IY77602	IY77689
IY78072	IY78195	IY79151	IY79299	
Software Package Editor, Version 4.2.2, 4.2.2-SWDJPS-FP02				
IY76008	IY77361	IY77833		
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-FP02				
IY73006	IY73565	IY74170	IY74293	IY74392
IY74801	IY75236	IY75754	IY75778	IY76008
IY76041	IY76100	IY76488	IY76968	IY77361
IY77508	IY77833			

Table 27. Software Distribution APARs included from 4.2.2-SWDSRV-F2P1, 4.2.2-SWDGW-F2P1, 4.2.2-SWDJPS-F2P1, and 4.2.2-SWDEP-F2P1

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-F2P1				
IY77018	IY80472	IY80616	IY81040	
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-F2P1				
IY81040	IY81540			
Software Package Editor, Version 4.2.2, 4.2.2-SWDJPS-F2P1				
IY81040				
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-F2P1				
IY81040				

Table 28. Software Distribution APARs included from 4.2.2-SWDSRV-FP03, 4.2.2-SWDGW-FP03, and 4.2.2-SWDEP-FP03

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-FP03				
IY77687	IY80104	IY80647	IY81144	IY81968
IY82317	IY82563	IY83183	IY83456	
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-FP03				
IY77687	IY80647	IY80648	IY81596	IY82317
IY82467	IY82563	IY82975	IY83456	IY83527
IY84105	IY85098			
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-FP03				
IY80647	IY80648	IY82317	IY82467	IY82563
IY83456	IY83462	IY83508		

Table 29. Software Distribution APARs included from 4.2.2-TIV-SWDSRV-FP0004, 4.2.2-TIV-SWDGW-FP0004, and 4.2.2-TIV-SWDEP-FP0004

Software Distribution, Version 4.2.2, 4.2.2-TIV-SWDSRV-FP0004				
IY85493	IY85877	IY86341	IY87352	IY89298

Table 29. Software Distribution APARs included from 4.2.2-TIV-SWDSRV-FP0004, 4.2.2-TIV-SWDGW-FP0004, and 4.2.2-TIV-SWDEP-FP0004 (continued)

IY91076	IY92137	IY92678		
Software Distribution Gateway, Version 4.2.2, 4.2.2-TIV-SWDGW-FP0004				
IY86926	IY89709	IY90729		
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-TIV-SWDEP-FP0004				
IY86341	IY86926	IY89709	IY90729	

Table 30. Software Distribution APARs included from 4.2.2-TIV-SWDSRV-FP0005, 4.2.2-TIV-SWDGW-FP0005, and 4.2.2-TIV-SWDEP-FP0005

Software Distribution, Version 4.2.2, 4.2.2-TIV-SWDSRV-FP0005				
IY90955	IY92117	IY92678	IY95694	IY95991
IY96466	IY96883	IY97189		
Software Distribution Gateway, Version 4.2.2, 4.2.2-TIV-SWDGW-FP0005				
IY94555	IY95992	IY96644		
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-TIV-SWDEP-FP0005				
IY95694	IY96644	IY96883		

Table 31. Activity Planner APARs and defects included from 4.2.2-APM-0001

Activity Planner , Version 4.2.2, 4.2.2-APM-0001				
53904	54567			
IY65552	IY65622	IY67421	IY67427	IY67715
IY68048	IY68180	IY68241	IY70368	

Table 32. Activity Planner APARs and defects included from 4.2.2-APM-FP01

Activity Planner, Version 4.2.2, 4.2.2-APM-FP01				
53632	53635	54892		
IY64606	IY66021	IY66713	IY68138	IY68180
IY70368	IY69394	IY71064	IY71340	IY71810
IY71812	IY71963			

Table 33. Activity Planner APARs included from 4.2.2-APM-FP02

Activity Planner, Version 4.2.2, 4.2.2-APM-FP02				
IY72845	IY72998	IY73503	IY73578	IY73642
IY74285	IY74288	IY74438	IY74468	IY74754
IY74842	IY74892	IY74948	IY75060	IY75114
IY75608	IY75767	IY75834	IY76002	IY77319
IY77871	IY78261	IY78280	IY78519	IY78730
IY78980				

Table 34. Activity Planner APARs included from 4.2.2-APM-F2P1

Activity Planner , Version 4.2.2, 4.2.2-APM-F2P1				
IY79210	IY80151	IY80188		

Table 35. Activity Planner APARs included in 4.2.2-APM-FP03

Activity Planner, Version 4.2.2, 4.2.2-APM-FP03				
IY80397	IY80844	IY81197	IY81777	IY83067
IY83772	IY83968	IY84411	IY84511	IY84627
IY84738	IY85127	IY85313		

Table 36. Activity Planner APARs included from 4.2.2-TIV-APM-FP0004

Activity Planner, Version 4.2.2, 4.2.2-TIV-APM-FP0004				
IY86738	IY87635	IY88552	IY89231	IY89499
IY89667	IY90259	IY90445	IY90871	IY91115
IY91436				

Table 37. Activity Planner APARs included from 4.2.2-TIV-APM-FP0005

Activity Planner, Version 4.2.2, 4.2.2-TIV-APM-FP0005				
IY94022	IY94074	IY95473	IY95678	IY97772

Table 38. Change Manager APARs included from 4.2.2-CCM-FP01

Change Manager, Version 4.2.2, 4.2.2-CCM-FP01				
IY65948	IY66712	IY68427		

Table 39. Change Manager APARs included from 4.2.2-CCM-FP02

Change Manager, Version 4.2.2, 4.2.2-CCM-FP02				
IY64369				

Table 40. Change Manager defects included from 4.2.2-CCM-FP03

Change Manager, Version 4.2.2, 4.2.2-CCM-FP03				
56350				

Table 41. Change Manager APARs included from 4.2.2-TIV-CCM-FP0004

Change Manager, Version 4.2.2, 4.2.2-TIV-CCM-FP0004				
IY87278				

Table 42. Resource Manager APARs and defects included from 4.2.2-TRMSRV-FP01, and 4.2.2-TRMGW-FP01

Resource Manager and Resource Manager Gateway, Version 4.2.2, 4.2.2-TRMSRV-FP01 and 4.2.2-TRMGW-FP01				
52136	52488	53012	53058	53231
53274	53281	53291	53396	53411
53542	53596	53631	53645	53688
53711	53756	53861	53875	
IY71394				

Table 43. Web Interface APARs and defects included from 4.2.2-WEB-FP01

Web Interface, Version 4.2.2, 4.2.2-WEB-FP01				
53432				
IY70235	IY70838			

Table 44. Web Interface APARs included from 4.2.2-WEBEP-F2P1

Web Interface, Version 4.2.2, 4.2.2-WEBEP-F2P1				
IY80426				

Table 45. Pristine Manager and Pristine Manager Gateway APARs included from 4.2.2-PMSRV-FP01 and 4.2.2-PMGW-FP01

Pristine Manager and Pristine Manager Gateway, Version 4.2.2, 4.2.2-PMSRV-FP01 and 4.2.2-PMGW-FP01				
IY71465				

Table 46. Directory Query APARs included from 4.2.2-QDY-F2P1

Directory Query, Version 4.2.2, 4.2.2-QDY-F2P1				
IY80426				

Installation

This section describes how to install fix pack 6 to upgrade the various components of IBM Tivoli Configuration Manager, Version 4.2.2. The method of installation depends on the component you are upgrading. After 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.

This section includes the following topics:

- “Hardware and software requirements”
- “Traditional fix pack installation methods” on page 20
- “Software package block (SPB) fix pack installation for GUI components” on page 23
- “Updating the Inventory schema” on page 26
- “Upgrading plug-ins” on page 27

Hardware and software requirements

This section includes the following topics:

- “Supported platforms”
- “System requirements” on page 20

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

Hardware and software prerequisites are detailed in the *IBM Tivoli Configuration Manager: Release Notes*. There are currently no changes to the information included in the *Release Notes*.

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 for the entire Tivoli management region (Tivoli region).
- “Installing fix packs using the Tivoli desktop” on page 21
A graphical user interface that you use to select the fix pack to install and the target workstations on which to install them.
- “Installing fix packs using the CLI” on page 21
Tivoli Management Framework command that you use to specify the fix pack to install and the target workstations on which to install them from the command line interface.
- “Installing fix packs using SIS” on page 22
The SIS console or SIS commands you use to specify the fix pack 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®.

Note: Before starting the upgrade process, back up the object database on the Tivoli server and each affected managed node.

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

To upgrade your IBM Tivoli Configuration Manager environment with a 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, Version 4.2.2 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` subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 6 CD (1 of 2). Click **Next**.

4. The actions necessary to upgrade your environment are being generated. When the process completes, a panel displays the fix pack components you must 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 4.2.2 Fix Pack 6 CD (1 of 2). 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 **Install->Install Patch** from the Desktop menu.
2. Select the media and component to be upgraded.
3. Select the workstations where the component is to be upgraded.
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

When upgrading products using the **wpatch** command, specify the name of the index file using the file shown in Table 47 on page 22. 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 installed or 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 4.2.2 Fix Pack 6 CD (1 of 2).

-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 included in this fix pack.

Table 47. IND files for components

IND file	Component name	Tag
422INVFP	Inventory, Version 4.2.2	4.2.2-TIV-INV-FP0006
422LCFFP	Inventory Gateway, Version 4.2.2	4.2.2-TIV-INVGW-FP0006
422CLLFP	Scalable Collection Service, Version 4.2.2	4.2.2-TIV-CLL-FP0006
SWDFP6	Software Distribution, Version 4.2.2	4.2.2-TIV-SWDSRV-FP0006
SDGWFP6	Software Distribution Gateway, Version 4.2.2	4.2.2-TIV-SWDGW-FP0006
SDJFP6	Software Package Editor, Version 4.2.2	4.2.2-TIV-SWDJPS-FP0006
APMFP6	Activity Planner, Version 4.2.2	4.2.2-TIV-APM-FP0006
CCMFP6	Change Manager, Version 4.2.2	4.2.2-TIV-CCM-FP0006
TRMFP6	Resource Manager, Version 4.2.2	4.2.2-TIV-TRMSRV-FP0006
TRMGWFP6	Resource Manager Gateway, Version 4.2.2	4.2.2-TIV-TRMGW-FP0006
WEBUIFP6	Web Interface, Version 4.2.2	4.2.2-TIV-WEB-FP0006
PMFP6	Pristine Manager 4.2.2	4.2.2-TIV-PMSRV-FP0006
PMGWFP6	Pristine Manager Gateway 4.2.2	4.2.2-TIV-PMGW-FP0006
DQYFP6	Directory Query 4.2.2	4.2.2-TIV-DQY-FP0006

Installing fix packs using SIS

When installing fix packs using Tivoli Software Installation Service, select the fix packs to be installed using the component name shown in Table 47.

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 25
- “Software Distribution server command” on page 25
- “Software Distribution disconnected command” on page 26

IBM Tivoli Configuration Manager, Version 4.2.2 GA package is a prerequisite of the SPB fix packs.

To successfully install fix packs using any of these installation methods, 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 48.

Table 48. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_APM_GUI_Fix.v4.2.2.FP06		
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.v4.2.2.FP06		
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_PC_Fix.v4.2.2.FP06		

Table 48. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
SPE_GUI	YES	Enables you to update the Speditor GUI.
Tivoli_SWDEP_NW_Fix.v4.2.2.FP06		
target_dir	\$(product_dir)\SD422CLI	
Tivoli_SWDEP_OS2_Fix.v4.2.2.FP06		
package_type	ALL	
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_UNIX_Fix.v4.2.2.FP06		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where the JRE 1.3 is installed.
SPE_GUI	YES	Enables you to update the Speditor GUI.
Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP06		
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_400PS_Fix.v4.2.2.FP06		
Note: This package has to be installed on the AS/400 system to which user wants to connect through Software Package Editor for AS/400.		
package_type	ALL	
target_dir	\$(product_dir)\speditor	
Tivoli_WebUI_Fix.v4.2.2.FP06		
AppServer	/opt/WebSphere/AppServer	Specifies the WebSphere Application Server home directory.
WebSrvDoc	/usr/IBMHttpServer/htdocs/en_US	Specifies the directory for the Web Server documentation.
LCF_LIBDIR	/opt/Tivoli/lcf/lib/aix4-r1	Specifies the LCFLIB directory for the endpoint.
Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP06		
CLUSTER_ENV	false	Specifies whether the cluster Tivoli Web Gateway Server is to be upgraded.
INTERP	aix4-r1	Specifies the INTERP of the Tivoli Web Gateway Server.
AppServer	/opt/WebSphere/AppServer	Specifies where the WebSphere Application Server home is located.
LCF_DATDIR	/opt/Tivoli/lcf/dat/1	Specifies the LCFDAT directory for the endpoint.

Table 48. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
LCFROOT	/opt/Tivoli/lcf	Specifies the LCFROOT directory for the endpoint.
DMS.Destination	/usr/TivTWG	Specifies where the Tivoli Web Gateway is installed.
Hostname	hostname.domain	Specifies the Tivoli Web Gateway hostname.

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 4.2.2 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 4.2.2 Fix Pack 6 CD (2 of 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 4.2.2 Fix Pack 6 CD (2 of 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 `setup_$(INTERP).bin` where `$(INTERP)` represents the operating system on which you are launching the upgrade process.
3. Read the Welcome panel and click **Next**.
4. Specify the `422CMFP06.xml` file for the fix pack located in the `/package` subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 6 CD (2 of 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 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 49.
2. Import the SPB fix pack 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, GA version, installed on the endpoint. If you need to install the Software Distribution Software Package Editor component run from the command line the following:

```
wdinstsp GUI_component.spb
```

If you need to overwrite the values of the default variables, use the "-D" option from the command line as follows:

```
wdinstsp -D variable=value GUI_component.spb
```

Software package block fix packs

Table 49 contains the names of the fix pack 6 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 4.2.2 GA SPBs are a prerequisite of the fix pack SPBs.

Table 49. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_APM_GUI_Fix.v4.2.2.FP06.spb	Tivoli_APM_GUI_Fix.v4.2.2.FP06
Tivoli_CCM_GUI_Fix.v4.2.2.FP06.spb	Tivoli_CCM_GUI_Fix.v4.2.2.FP06
Tivoli_SWDEP_\${interp}_Fix.v4.2.2.FP06.spb	Tivoli_SWDEP_\${interp}_Fix.v4.2.2.FP06
Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP06.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP06
Tivoli_SWDEP_400PS_Fix.v4.2.2.FP06.spb	Tivoli_SWDEP_400PS_Fix.v4.2.2.FP06
Tivoli_WebUI_Fix.v4.2.2.FP06.spb	Tivoli_WebUI_Fix.v4.2.2.FP06
Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP06.spb	Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP06

Updating the Inventory schema

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

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

Table 50 lists the SQL scripts, released with the different fix packs, to run for updating the **Inventory schema**:

Table 50. SQL scripts for updating the Inventory schema

	Oracle	DB2	MSSQL	Sybase	Informix	DB2 MVS	DB2 MVS custom
inv_db_422_FP01.sql	X	X	X	X	X	X	X

Table 50. SQL scripts for updating the **Inventory** schema (continued)

	Oracle	DB2	MSSQL	Sybase	Informix	DB2 MVS	DB2 MVS custom
inv_db_422_FP02.sql	X	X	X	X	X	X	X
inv_db_422_FP03.sql	X	X	X	X	X	X	X
inv_db_422_FP04.sql							
inv_db_422_FP05.sql	X	X	X	X	X		
inv_db_422_FP06.sql							

Table 51 lists the SQL scripts, released with the different fix packs, to run for updating the **Historical Inventory** schema:

Table 51. SQL scripts for updating the **Historical Inventory** schema

	Oracle	DB2	MSSQL	Sybase	Informix	DB2 MVS	DB2 MVS custom
inv_db_422_FP01.sql	X	X	X	X	X	X	X
inv_db_422_FP02.sql							
inv_db_422_FP03.sql							
inv_db_422_FP04.sql							
inv_db_422_FP05.sql	X	X	X	X	X		
inv_db_422_FP06.sql							

Copy the appropriate schema scripts to any system where SQL access is available (such as the database server or the database client workstation if the client allows SQL connectivity) to run the schema scripts. If you have already installed and configured the previous fix packs, you do not need to run the *inv_db_vendor_422_FP0x.sql* and *h_inv_db_vendor_422_FP0x.sql* (where *x* = 1, 2, 3, 4, or 5) scripts again.

Note: Error or information messages might be displayed when running the database scripts. Each database has unique behavior, so some messages can be expected.

For instance, if you use DB2 and install this fix pack, to update the Inventory schema, refer to the **DB2** column of Table 50 on page 26 and run the scripts identified in the table rows by **X** in the order specified:

- inv_db2_422_FP01.sql
- inv_db2_422_FP02.sql
- inv_db2_422_FP03.sql
- inv_db2_422_FP05.sql

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

Upgrading plug-ins

To upgrade plug-ins, you must run the upgrade scripts.

Activity Planner

If you have installed 4.2.2-TIV-APM-FP0006, 4.2.2-TIV-SWDSRV-FP0006, and 4.2.2-TIV-INV-FP0006, 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.

Change Manager

If you have installed 4.2.2-TIV-CCM-FP0006, 4.2.2-TIV-SWDSRV-FP0006, and 4.2.2-TIV-INV-FP0006, 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

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 fix pack 1 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-0044** Tivoli Framework patch or any supersedes must also be installed on the Tivoli server and gateways.

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

1. Install the **4.2.2-TIV-SWDSRV-FP0006** Software Distribution server patch to update the Software Distribution command line and GUI.
2. Install the **4.2.2-TIV-SWDGW-FP0006** Software Distribution gateway patch to update Windows endpoints.
3. Install the **4.2.2-TIV-APM-FP0006** Activity Planner patch to update the Activity Planner GUI.
4. Upgrade the Activity Planner plug-ins, as described in “Upgrading plug-ins” on page 27.
5. Distribute the **Tivoli_login_control_4.2.2.spb** software packages 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 `wdepcem.exe` file from the `/LoginControl` folder on CD 2 to the endpoints.

Configuring the concurrent login feature

After installing the concurrent login feature as described in “Installing the concurrent login feature” on page 28, you can configure the registry keys created on the endpoints with the **Tivoli_login_control_4.2.2.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 **wdepcem** command. For more information on this command, see “wdepcem” on page 33.

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 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 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 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 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 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 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 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 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 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`

Using the concurrent login feature

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

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

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

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

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

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

-Y max_login_allowed

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

-W

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

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

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

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

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

Max Login Allowed

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

Disable Shutdown

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

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

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

Documentation notes

This section contains new information and documentation corrections contained in this fix pack and in previous fix packs.

Information changes contained in this fix pack

User's Guide for Inventory

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

APAR IZ05392

In Appendix B "Commands" in sections "wsetinvdh" and "wgetinvdh" the following information should be added to the "options" subsection:

-z *debug_level*

Enables or disables the logging activity of the status collector.

where *debug_level* can assume one of the following values:

0 Disables the logging activity of the status collector.

A value bigger than 0

Enables the logging activity of the status collector.

Defect 214174

In Appendix B "Commands" in section "winviso" add before the subsection "Syntax" the following information:

Before running the **winviso** command, you must perform an Inventory scan on the endpoint.

Information changes contained in previous fix packs

This section contains new information for the following manuals of the IBM Tivoli Configuration Manager, Version 4.2.2 library, contained in previous fix packs.

User's Guide for Software Distribution

The following new information applies to the *User's Guide for Software Distribution*.

- **APAR IY85208**

In Chapter 15 "Troubleshooting", in the section "Setting Timeout Values for a Distribution", in the subsection called "User Program Timeout" the following information should be added after the third paragraph:

If `execute_user_program.timeout` is equal to 0 and the user program is the last action in the software package, the timeout value set for the gateway repeater is used.

- **APAR IY53218**

In Chapter 15 "Troubleshooting", section "Hints and Tips", add the following text at the end of the list:

Cloning software packages from the Tivoli desktop

When cloning software packages from one profile manager to another using the drag-and-drop function, the cloned software package might not work correctly.

To clone a software package from one profile manager to another, perform the following steps:

1. From the Tivoli desktop, open the profile manager containing the software package you want to clone.

2. Select the software package you want to clone.
3. Select **Profiles/Clone** in the **Edit** menu. The Clone Profile dialog is displayed.
4. In the **Name/Icon Label** type a name for the cloned software package.
5. Select a profile manager in the **Clone to Profile Manager** list.
6. Click **Clone and Close**. The selected software package is cloned to the specified profile manager.

Note: When naming software packages, do not use the .dup@ or .tmp@ character sequence in the name or version.

You can also move a software package from one profile manager to another, by performing one of the following procedures:

- On Windows operating systems, drag and drop the software package to the destination profile manager
- On UNIX operating systems, drag and drop the software package to the destination profile manager while pressing the Shift key.

- **APAR IY74801**

In Chapter 15 "Troubleshooting", in the section "Base Configuration Information on the Endpoint", add to Table 17 "Directory assignments in swdis.ini file" the following key and its description:

resinit_one_reboot

Defines the endpoint behavior in processing software packages. If you change the default value `resinit_one_reboot=y` and set it to `resinit_one_reboot=n` in the `swdis.ini` file on the endpoint, the packages are processed one by one, and if a package requires a reboot, the endpoint is rebooted immediately.

- **APAR IY76694**

In Chapter 15 "Troubleshooting", section "Base Configuration Information on the Endpoint", add to Table 17 "Directory assignments in swdis.ini file" the following key and its description:

resinit_reboot_forced

Identifies the resinit behavior on the endpoint, in case a reboot is needed. If you change the default value `resinit_reboot_forced=n` and set it to `y`, you specify a hard reboot of the machine.

- **APAR IY78490**

In Chapter 3 "Creating Packages Using the Software Package Editor", in the section "Setting Properties on the Package", in the subsection "Endpoint Options" add the following text after the first sentence of the section:

The before program is not run on the endpoint, if you are installing the software package from a disconnected Command Line Interface.

User's Guide for Deployment Services

The following new information applies to the *User's Guide for Deployment Services*.

- **APAR IY65552**

In Chapter 4 "Troubleshooting", section "Specific problems and workarounds", add the following text:

Error messages are truncated

If error messages are longer than 250 characters, they are truncated. To solve this problem, add the `max_error_info_size` keyword in the `DEFAULT` section of the `apm.ini` file and enlarge the `ERROR_INFO`

column in the ACT_STATUS_TGT table to the same value defined for the max_error_info_size keyword. The maximum size for this column depends on the database you are using.

- **Feature 56137**

In Chapter 3 "Using the Command Line", in the section "Managing Activity Plans", sub-section "wsubpln", add the **-Dis_cancel_preferred=y** parameter to the syntax of the **wsubpln** command.

At the end of the "Option" section add the following option description:

- Dis_cancel_preferred=y**

- Enables you to define as a preference the final plan status to cancelled, when one or more of the activities of the plan have been cancelled, and some other activities show the successful status.

- **APAR IY74288**

In Chapter 3 "Using the Command Line", in the section "Managing Activity Plans", sub-section "wapmfltr", add the **-u user@hostname.domain** parameter to the syntax of the **wapmfltr** command.

At the end of the "Option" section add the following option description:

- u user@hostname.domain**

- Enables you to save filters or set default filters when you have the APM_View role.

- **APAR IY75060**

In Chapter 4 "Troubleshooting", in the section "Activity Planner Core Trace", add the following information:

The following environment variable has been added to the APM_core process:

- APM_RPC_MAX_THREADS**

- Retrieves the maximum number of concurrent remote procedure call threads handled by the dispatcher. You can reset this number with the APM_RPC_MAX_THREADS option.

Planning and Installation Guide

The following new information applies to the *Planning and Installation Guide*.

Defect 53849

In Chapter 8 "Maintaining and troubleshooting a Configuration Management Environment", section "Verifying an Installation", add the following text at the end of the Activity Planner and Change Manager sections:

Ensure that you install the same level of code on the endpoints that is installed on the Tivoli server. If an interim fix or fix pack is installed on the Tivoli server, the same interim fix or fix pack must be installed on the endpoint.

Defect 53479

In Chapter 5 "Tivoli Configuration Manager Installation and Upgrade", section "Custom Server Installation", add the following note after step 6:

Note: Uninstall the Japanese language pack for version 4.2.1, if present, before installing the Japanese language pack.

Reference Manual for Software Distribution

The following new information applies to the *Reference Manual for Software Distribution*.

- **Defects 57682 and 57685**

New parameters are added to the data moving command, **wspmvdata** and to the Software Distribution configuration command, **wswdcfg** to support the customization of the source host for Data Moving Endpoint to Endpoint and delete Data Moving operations. Formerly, the source host for these operation was always the Tivoli server.

The new parameter in the **wspmvdata** command is **-h** and the value specified must identify a Tivoli Managed Node.

If no source host is specified in the **wspmvdata** command a default host is used. The default host is also configurable. To set it, use the **wswdcfg** command, as follows:

```
wswdcfg -s datamoving_source_host=managed_node_name
```

The man pages for these commands have not been updated to reflect these changes.

- **Defect 51869**

In Chapter 1 "Editing the Software Package Definition File", table 14 "SPD file attributes for Windows registry objects", add the following note to the explanation of the **add** attribute:

Note: To override this setting, add the `_ALWAYS_ADD_WINREG_KEYS_` variable to the `swdis.var` file and set it to YES or NO. If you set it to YES, parent registry keys are always created, irrespective of the setting specified for the add attribute.

- **APAR IY66515**

In Chapter 1. Editing the Software Package Definition File, Software Package Name and Version section, add the following sentence at the end of the first list:

The length of the string that defines the name and version of a software package can vary depending on how you distribute the software package:

- If you use Activity Planner, the maximum length of the string is 128 characters. It includes name, delimiter, version (64 characters), and #region name.
- If you do not use Activity Planner, the maximum length of the string is 230 characters. It includes name, delimiter, and version (64 characters).

- **Feature 54613**

In Chapter 3, Using Commands, add the text below to the following commands:

- waccpst
- wcommstp
- winstp
- wspmvdata
- wremovsp
- wundosp

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

Defines 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

Specifies 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.

- **APAR IY72490:**

In Chapter 3 "Using Commands", section "Disconnected Target Commands" modify the usage of the **wdlssp** command as follows:

wdlssp

wdlssp -B.

and add the following description in the **Options** section:

- b** Creates a backup copy of the endpoint catalog to a specified file. If the catalog is corrupted, the information of the `epsp.cat` catalog file is retrieved up to the point where the corruption occurred. Some data in the new file might be inconsistent if the command failed to retrieve complete data from the corrupt catalog. You can then manually replace the catalog with the new file.

- **Defect 34131**

In Chapter 3 "Using Commands", section "wswdcfg", add the following option and its description:

message_dir_usable_quota

You can dedicate a percentage of disk space to the message directory, to avoid corruption of the message file due to insufficient disk space during the reporting phase. The limit is customizable. The default is 100%. Each time the limit specified is reached, the same exception is caught as the thread limiter.

- **APAR IY78490**

In Chapter 1 "Editing the Software Package Definition File", in the section "General Stanzas", in the subsection "Setting Up Before and After Programs on the Endpoint" add the following note in the Notes ordered list of the subsection: The before program is not run on the endpoint, if you are installing the software package from a disconnected Command Line Interface.

- **APAR IY87129**

In Chapter 3 "Using commands" section "wspmvdata" the following information should be added:

- In the "Options" subsection add at the end of the -F description the following paragraph:
The \$(ep_label) variable can be used only to send files from managed nodes to endpoints, and not from endpoints to other endpoints.
- In the "Sending Multiple Files" subsection add after the first paragraph the following information:
The \$(ep_label) variable can be used only to send files from managed nodes to endpoints, and not from endpoints to other endpoints.

User's Guide for Inventory

The following new information applies to the *User's Guide for Inventory*.

APAR IY68383

In Appendix B, update the usage of the **wepscan** command as follows:
wepscan [-d {1 | 2 | 3}] [-s[-l]] [-t mc_upcall_timeout] and add the following parameter to the **Options** section for command **wepscan**:

- l Does not send the INV_SA.LOG file to the inventory data handler.
This option can be used only in conjunction with the -s option.

Tivoli Integration Pack for NetView User's Guide

This section contains new and updated information for IBM Tivoli Configuration Manager Book title:

APAR IY92481

In the "Configuring Tivoli Discovery" section of Chapter 3, add the following sentence at the end of the existing note:

The NetView database and the Tivoli Report are updated only with those resources having the transport protocol set to AF_INET.

Messages and Codes

The following new information applies to the *Messages and Codes*.

• Defect 55265

In Chapter 3 "Activity Planner Messages (AMN)", add the following message:

AMN4060E

The application referenced by the selected activity does not provide a monitor GUI.

Explanation:

The MDist 2 GUI you are trying to open for an activity, which is not a software distribution, is not available.

System action:

The operation is not performed.

Documentation problems and corrections contained in previous fix packs

This section contains problems and corrections for the following manuals of the IBM Tivoli Configuration Manager, Version 4.2.2 library, contained in previous fix packs:

User's Guide for Software Distribution

The following information changes apply to the *User's Guide for Software Distribution*.

• APAR IY53753

In Chapter 15, section "Troubleshooting the Software Package Editor GUI", add the following bullet after the first bullet:

- **Windows XP user.** To use the Software Package Editor on Windows XP systems, you must be a member of the Administrators or Power Users group.

- **APAR IY58534**

In Chapter 15, "Troubleshooting", section "Software Distribution Log", add the following note to the "Distributive" section:

Note: If files in the distributed package are identical to files that already exist on the endpoint, then these files are not redistributed. This means that, if the Software Distribution log on the endpoint is enabled, the line "success: add file" is no longer added to the log.

- **APAR IY73165**

In Chapter 11 "Configuring a Network Topology", section "Scenario 3: Distributing from a Source Host through Repeater Depots", remove the following sentence:

However, do not use depots for extremely large distributions.

- **APAR IY77361**

In Chapter 6 "Embedding Native Objects into a Software Package", section "Using Dialogs to Embed or Edit an HP-UX Package", replace the bullet number four with the following text:

In the **HP-UX Source Depot path** text box, type the absolute path of the HP-UX package. In the **HP-UX Source Depot File Name** specify the file name of the HP-UX software depot, if the images to be installed are stored in a single file.

- **APAR IY78727**

In Chapter 9 "Preparing a Software Package for Distribution", section "Change Management Operations", subsection "Overwriting Default Variables" replace the second paragraph with the following text:

When you subsequently remove a software package, you can define or override only those variables that were not resolved when the package was installed or those variables that are left unresolved for future remove operations, even though they were resolved during the package installation. If these variables are not overwritten after the package installation, they maintain the values used during the installation.

Reference Manual for Software Distribution

The following information changes apply to the *Reference Manual for Software Distribution*.

- **APAR IY85208**

The description of the `execute_user_program` stanza does not include an explanation of the behavior if the timeout is set to 0. If `execute_user_program.timeout` is equal to 0 and the user program is the last action in the software package, the timeout value set for the gateway repeater is used.

- **APAR IY71708**

In Chapter 3 "Using Commands", section "Server Commands", add the text below to the initial description of each of the following commands:

- `wacctsp`
- `wcommmsp`
- `winstsp`
- `wldsp`

- wremovsp
- wsetsp
- wspmldata
- wswdmgr
- wsyncsp
- wuldsp
- wundosp
- wversp

This command specifies whether the distribution fails on endpoints that cannot be reached for any reason. Supported values are true and false. The default value is false.

User's Guide for Deployment Services

The following information changes apply to the *User's Guide for Deployment Services*.

- **APAR IY65042**

In Chapter 2, section "Selecting Targets for an Activity", add the following text to the first item in the bulleted list in step 4:

A list of target names. Select this type if you define the targets using the \$(TARGET_LIST) variable.

- **APAR IY66346**

In Chapter 1, section "Before You Start", modify the sentence:

- RIM_view or RIM_update role, depending on database operation.

as follows:

- RIM_view and RIM_update roles.

In sub-section "Understanding the Activity Planner Environment", Table 1.

Activity Planner roles and operations, add the RIM_view and RIM_Update roles in all the cells of the **Required roles** column.

- **APAR IY70370**

In Chapter 2 "Using the Command Line", Table 5 "Sub-elements that define the activity plan", targets_computation row, add the following information:

If targets are defined at plan level and targets resolution is specified at plan submission, targets are calculated when the plan is submitted and inserted in the ACT_STATUS_TGT table. If the target exists, the OID in the table is the current OID, otherwise it is ----.

Planning and Installation Guide

The following information changes apply to the *Planning and Installation Guide*.

- **APAR IY58932**

In Chapter 7, "Desktop Installation", section "Desktop Installation", replace the paragraph:

The Desktop installation program installs Tivoli Desktop for Windows and the IBM Tivoli Configuration Manager administrative interfaces. This installation can be used on the following Windows operating systems only:

- Windows 2000
- Windows XP
- Windows Server 2003

with the following two paragraphs:

The Desktop installation program installs Tivoli Desktop for Windows and the IBM Tivoli Configuration Manager administrative interfaces. This installation can be used on supported Windows operating systems only.

To install Tivoli Desktop for Windows on Windows Server 2003, perform the following steps:

1. Open the Desktop directory on CD 3 of the IBM Tivoli Configuration Manager Desktop CD (cd3\desktop).
2. Run setup.exe.

When the Tivoli Desktop installation is complete, you can install components that are provided as SPBs (located in the directory cd3\SPB), using Software Distribution (see the section Components Installed using Software Package Blocks for more information).

- **APAR IY68178**

In Chapter 4, section "Upgrading Database Scripts", sub-section "Upgrading From IBM Tivoli Configuration Manager Version 4.2" replace the paragraph that describes how to upgrade to Software Distribution 4.2.2 with the following text:
The Software Distribution upgrade from 4.2 to 4.2.2 does not require any upgrade script for the database repository.

- **APAR IY68188**

In Chapter 6, Table 25 "Web Gateway Component Prerequisites", first row of the "Web Gateway database" table, change:

IBM DB2[®]

into:

IBM DB2 Server

- **APAR IY71740**

In Chapter 1, section "IBM Tivoli Configuration Manager Components and Services", add the following information to the Software Distribution component description:

You must install the Software Distribution component on the Tivoli server before you can install either the Software Distribution or Software Distribution Gateway component on any managed node in the local Tivoli region.

In Chapter 1, at the end of section "IBM Tivoli Configuration Manager Components and Services", delete the following paragraph:

You must install these components on the Tivoli server before you can install them on a managed node or before you can install the associated gateway component on a gateway. For example, you must install the Software Distribution component on the Tivoli server before you can install either the Software Distribution or Software Distribution Gateway component on any managed node in the local Tivoli region.

User's Guide for Inventory

The following information changes apply to the *User's Guide for Inventory*.

- **APAR IY72012**

In Appendix B, add the following sentence for commands **wdistinv** and **winvmgr**, at the end of the **wake_on_lan** description:

If you set this option in an InventoryConfig profile, its value overrides the **wake_on_lan** keyword value.

In Appendix B, add the following sentence for commands **wdistinv** and **winvmgr**, at the end of the **hidden** description:

If you set this option in an InventoryConfig profile, its value overrides the **hidden** keyword value.

- **Defect 185685**

In Chapter 3 "Working with Inventory profiles", section "Software scan configuration options", paragraph "Directories" add the following note at the end of the paragraph:

Note: If you specify two paths, one to be included in the scan and the other to be excluded from the scan, the include operation supersedes the exclude operation. For example, when specifying the C:/ directory to be excluded from the scan, and the C:/Windows directory to be included in the scan, the C:/Windows directory is scanned by Inventory.

- **Defect 55565**

If you installed the WSUS Patch Automation solution, in Appendix B "Commands", replace the current usage of the **wsetinvpcsw** command with the following usage:

```
wsetinvpcsw [-b {SCAN | UPDATE | BOTH | NO}]  
[-c {QUICK | FULL | MD5 | NONE}] [-f {Y | N}]  
[-h {SCAN | UPDATE | BOTH | NO}] [-r {SCAN | UPDATE | BOTH | NO}]  
[-s {SCAN | UPDATE | BOTH | NO}] [-x {Y | N}] [-m {Y | N}]  
[-d {Y | N} [-n file_name]] profile_name
```

and add the following entries at the end of the Options list:

-d Specifies whether the swsigs.txt file must be downloaded to the endpoint. The default value is N, which means that the file is downloaded to the endpoint with every profile distribution. To prevent the file from being downloaded, set the option to Y. You can use the -n option to select a different file to be downloaded.

-n file_name

Specifies the name of the file to be downloaded to the endpoint. You can choose one of the following two files:

swsigs.txt

Contains Inventory signatures.

wsusscan.cab

Contains the security policy catalog.

This option can be used only with the -d option.

In Appendix B "Commands", replace the current usage of the **wgetinvpcsw** command with the following usage:

```
wgetinvpcsw [-b] [-c] [-f] [-h] [-r] [-s] [-x] [-m] [-d] profile_name
```

and add the following entry at the end of the Options list:

-d Specifies whether the swsigs.txt file must be downloaded to the endpoint.

In Appendix B "Commands", replace the current usage of the **wsetinvunixsw** command with the following usage:

```
wsetinvunixsw [-b {SCAN | UPDATE | BOTH | NO}]  
[-c {QUICK | FULL | MD5 | NONE}] [-f {Y | N}]  
[-p {SCAN | UPDATE | BOTH | NO}]  
[-s {SCAN | UPDATE | BOTH | NO}] [-x {Y | N}] [-d {Y | N}] profile_name
```

and add the following entry at the end of the Options list:

- d Specifies whether the swsigs.txt file must be downloaded to the endpoint. The default value is N, which means that the file is downloaded to the endpoint with every profile distribution. To prevent the file from being downloaded, set the option to Y.

In Appendix B "Commands", replace the current usage of the **wgetinunixsw** command with the following usage:

```
wgetinunixsw [-b] [-c] [-f] [-p] [-s] [-x] [-d] profile_name
```

and add the following entry at the end of the Options list:

- d Specifies whether the swsigs.txt file must be downloaded to the endpoint.

Database Schema Reference

The following information changes apply to the *Database Schema Reference*.

- **APAR IY79105**

In Chapter 5 "Configuration repository tables", section "Activity Planner tables", subsection "ACT_PARAMETER" add the following note at the end of the section:

Note: Change the size of the column PARAMETER_DATA from VARCHAR2(128) to VARCHAR2(1024) to enable Activity Planner to process parameters of that size.

Release Notes®

The following information changes apply to the *Release Notes*.

- **APAR IY70318**

In Chapter 3, section "Software Problems and Workarounds", sub-section "Change Manager", add the following problem description and workaround:

If you are using Change Manager based on Microsoft SQL Server and the primary language is not set to English, you might have some problems with the date format (for example month is taken instead of day).

Workaround: Change the collate to SQL_Latin1_General_CP1_CI_AS and the primary language of the user owning the Change Manager tables to English.

- **APAR IY71166**

In Chapter 3, section "Software Problems and Workarounds", sub-section "Software Package Editor", add the following problem description and workaround:

Software Package Editor GUI does not start on a Terminal Server Windows 2003.

Workaround: Open Software Package Editor using the Tivoli desktop.

Chapter 2. Support information

This section describes the following options for obtaining support for IBM products:

- “Searching knowledge bases”
- “Obtaining fixes”
- “Contacting IBM Software Support” on page 52

Searching knowledge bases

If you have a problem with your IBM software, you want it resolved quickly. Begin by searching the available knowledge bases to determine whether the resolution to your problem is already documented.

Search the information center on your local system or network

IBM provides extensive documentation that can be installed on your local computer or on an intranet server. You can use the search function of this information center to query conceptual information, instructions for completing tasks, reference information, and support documents.

Search the Internet

If you cannot find an answer to your question in the information center, search the Internet for the latest, most complete information that might help you resolve your problem. To search multiple Internet resources for your product, expand the product folder in the navigation frame to the left and select **Web search**. From this topic, you can search a variety of resources including:

- IBM technotes
- IBM downloads
- IBM Redbooks™
- IBM developerWorks®
- Forums and newsgroups
- Google

Obtaining fixes

A product fix might be available to resolve your problem. You can determine what fixes are available for your IBM software product by checking the product support Web site:

1. Go to the IBM Software Support Web site (<http://www.ibm.com/software/support>).
2. Under **Products A - Z**, select your product name. This opens a product-specific support site.
3. Under **Self help**, follow the link to **All Updates**, where you will find a list of fixes, fix packs, and other service updates for your product. For tips on refining your search, click **Search tips**.
4. Click the name of a fix to read the description and optionally download the fix.

To receive weekly e-mail notifications about fixes and other news about IBM products, follow these steps:

1. From the support page for any IBM product, click **My support** in the upper-right corner of the page.
2. If you have already registered, skip to the next step. If you have not registered, click register in the upper-right corner of the support page to establish your user ID and password.
3. Sign in to **My support**.
4. On the My support page, click **Edit profiles** in the left navigation pane, and scroll to **Select Mail Preferences**. Select a product family and check the appropriate boxes for the type of information you want.
5. Click **Submit**.
6. For e-mail notification for other products, repeat Steps 4 and 5.

For more information about types of fixes, see the *Software Support Handbook* (<http://techsupport.services.ibm.com/guides/handbook.html>).

Contacting IBM Software Support

IBM Software Support provides assistance with product defects.

Before contacting IBM Software Support, your company must have an active IBM software maintenance contract, and you must be authorized to submit problems to IBM. The type of software maintenance contract that you need depends on the type of product you have:

- For IBM distributed software products (including, but not limited to, Tivoli, Lotus®, and Rational® products, as well as DB2 and WebSphere® products that run on Windows or UNIX operating systems), enroll in Passport Advantage® in one of the following ways:
 - **Online:** Go to the Passport Advantage Web page ([http://www.lotus.com/services/passport.nsf/WebDocs/ Passport_Advantage_Home](http://www.lotus.com/services/passport.nsf/WebDocs/Passport_Advantage_Home)) and click **How to Enroll**.
 - **By phone:** For the phone number to call in your country, go to the IBM Software Support Web site (<http://techsupport.services.ibm.com/guides/contacts.html>) and click the name of your geographic region.
- For IBM eServer™ software products (including, but not limited to, DB2 and WebSphere products that run in zSeries®, pSeries®, and iSeries™ environments), you can purchase a software maintenance agreement by working directly with an IBM sales representative or an IBM Business Partner. For more information about support for eServer software products, go to the IBM Technical Support Advantage Web page (<http://www.ibm.com/servers/eserver/techsupport.html>).

If you are not sure what type of software maintenance contract you need, call 1-800-IBMSERV (1-800-426-7378) in the United States or, from other countries, go to the contacts page of the IBM Software Support Handbook on the Web (<http://techsupport.services.ibm.com/guides/contacts.html>) and click the name of your geographic region for phone numbers of people who provide support for your location.

Follow the steps in this topic to contact IBM Software Support:

1. Determine the business impact of your problem.
2. Describe your problem and gather background information.
3. Submit your problem to IBM Software Support.

Determine the business impact of your problem

When you report a problem to IBM, you are asked to supply a severity level. Therefore, you need to understand and assess the business impact of the problem you are reporting. Use the following criteria:

Severity 1	Critical business impact: You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.
Severity 2	Significant business impact: The program is usable but is severely limited.
Severity 3	Some business impact: The program is usable with less significant features (not critical to operations) unavailable.
Severity 4	Minimal business impact: The problem causes little impact on operations, or a reasonable circumvention to the problem has been implemented.

Describe your problem and gather background information

When explaining a problem to IBM, be as specific as possible. Include all relevant background information so that IBM Software Support specialists can help you solve the problem efficiently. To save time, know the answers to these questions:

- What software versions were you running when the problem occurred?
- Do you have logs, traces, and messages that are related to the problem symptoms? IBM Software Support is likely to ask for this information.
- Can the problem be re-created? If so, what steps led to the failure?
- Have any changes been made to the system? (For example, hardware, operating system, networking software, and so on.)
- Are you currently using a workaround for this problem? If so, please be prepared to explain it when you report the problem.

Submit your problem to IBM Software Support

You can submit your problem in one of two ways:

- **Online:** Go to the "Submit and track problems" page on the IBM Software Support site (<http://www.ibm.com/software/support/probsub.html>). Enter your information into the appropriate problem submission tool.
- **By phone:** For the phone number to call in your country, go to the contacts page of the IBM Software Support Handbook on the Web (techsupport.services.ibm.com/guides/contacts.html) and click the name of your geographic region.

If the problem you submit is for a software defect or for missing or inaccurate documentation, IBM Software Support creates an Authorized Program Analysis Report (APAR). The APAR describes the problem in detail. Whenever possible, IBM Software Support provides a workaround for you to implement until the APAR is resolved and a fix is delivered. IBM publishes resolved APARs on the IBM product support Web pages daily, so that other users who experience the same problem can benefit from the same resolutions.

For more information about problem resolution, see Searching knowledge bases and Obtaining fixes.

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