

IBM Tivoli Configuration Manager



Readme File for Fix Pack 2 - PTF U804360

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 65.

First Edition (December 2005)

This edition applies to fix pack 2 (PTF U804360) 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 2 (PTF U804360)

This readme file provides important information about Fix Pack 2 (PTF U804360) 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 *Software Distribution, Inventory, Activity Planner, Change Manager, Resource Manager, Web User Interface, Pristine Manager and Scalable Collection Service* 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 5
- “Limitations” on page 5
- “Limitations in DBCS environments” on page 5
- “Product fix history” on page 6

CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 2 includes *two* CDs:

Table 1. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 2 (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 2 (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 2 (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”
- “New features in previous fix packs” on page 3

New features in this fix pack

The following new features have been introduced in this fix pack.

Table 3. Customer enhancement request references in this fix pack

Modify cancel button on Software Distribution panel	Feature 55522
Immediate start of distributions for conditioned endpoints	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

Modify cancel button on Software Distribution 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 distributions for conditioned endpoints - 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 `mrm bios.exe` file has been now replaced by a 32-bit file having the same name, and using new device drivers. You can use the `mrm bios.exe` file to scan new platforms such as AMD 64 and Itanium 64.

New 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

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 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 39.

Displaying the .jar files version - Feature 55204

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

On UNIX[®] operating systems:

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

On Windows operating systems:

```
wjarversion.bat jarfile
```

where:

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

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

The files required for implementing this feature are located in the /JarVersion folder on IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 2 CD 2.

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 2 was tested using Tivoli Management Framework, Version 4.1.1 Fix Pack 4, that contains the following interim fixes:

- 4.1.1-TMF-0054 interim fix for Tivoli management region servers, managed nodes, and gateways.
- 4.1.1-TMF-0055 interim fix for Mobile, JRIM, JCF, MDist 2 GUI, and Tivoli Desktop for Windows.
- 4.1.1-LCF-0028 interim fix for endpoints.

Limitations

Defect 56350

The **-e** option is not displayed in the command usage when running the **wsyncrmod** command.

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 176363

In DBCS environments, it might occur that the **COMPUTER_QUERY** and the **H_COMPUTER_QUERY** are not properly filled in. In the trace file **rim_db_log**, you can see the following error message:

```
Command: Insert into COMPUTER (COMPUTER_SYS_ID....., KEYBOARD_TYPE...)
values (???????????)
DB2 Error Code: -302 SQLState:22001
The value of a host variable in the EXECUTE or OPEN statement is too
large for its corresponding use.
SQLSTATE=22001
```

This problem has been fixed in IBM Tivoli Configuration Manager, Version 4.2.3.

Workaround: Manually alter the related tables by increasing the size of the field **KEYBOARD_TYPE from 64 to 128. To increase this size, run the following commands:**

```
ALTER TABLE COMPUTER ALTER COLUMN KEYBOARD_TYPE SET DATA TYPE VARCHAR(128)
ALTER TABLE H_COMPUTER ALTER COLUMN KEYBOARD_TYPE SET DATA TYPE VARCHAR(128)
```

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.
```

This problem has been fixed in IBM Tivoli Configuration Manager, Version 4.2.3.

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 2 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 28

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-INV-FP02	Inventory, Version 4.2.2
4.2.2-INVGW-FP02	Inventory Gateway, Version 4.2.2
4.2.2-CLL-FP02	Scalable Collection Services, Version 4.2.2
4.2.2-SWDSRV-FP02	Software Distribution, Version 4.2.2
4.2.2-SWDGW-FP02	Software Distribution Gateway, Version 4.2.2
4.2.2-SWDJPS-FP02	Software Package Editor, Version 4.2.2
4.2.2-APM-FP02	Activity Planner, Version 4.2.2
4.2.2-CCM-FP02	Change Manager, Version 4.2.2
4.2.2-TRMSRV-FP02	Resource Manager, Version 4.2.2
4.2.2-TRMGW-FP02	Resource Manager Gateway, Version 4.2.2
4.2.2-WEB-FP02	Web Interface, Version 4.2.2
4.2.2-PMSRV-FP02	Pristine Manager 4.2.2
4.2.2-PMGW-FP02	Pristine Manager Gateway 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-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				

The following section describes each APAR or defect in detail:

APAR IY72944

Abstract:

Isolated scanning of an endpoint in differential mode does not work

Error Description:

The isolated scanning of an endpoint in differential mode does not work. The problem is that, when the inventory configuration is set to update with differences, all database tables are updated even if there have been no changes in the system.

APAR IY73560

Abstract:

Failure generating `nativ_id`

Error Description:

The process of generating `nativ_id` for installed software using `rpm pkginfo` is not working, if two different `rpm` packages having the same name are installed on a Linux workstation.

APAR IY73562

Abstract:

Failure during hardware scan printer section

Error Description:

The `wscanner` command fails when the printer component is selected in the hardware scan. The problem might occur if you are not logged on to the workstation. If you run the `wscanner` command manually, no failure occurs.

Additional Info:

When the failure occurs, the `tivhscan.mif` file is incomplete and the `libInvHW.log` file contains the following last lines:

```
Begin Group Printer getTable()  
Netware client not found.  
WMI Instance Enumeration unsuccessful.  
Reverting to legacy detection.
```

APAR IY74343

Abstract:

Dr. Watson error occurs on hardware scan with USB device

Error Description:

The legacy scan of USB devices might cause a Dr. Watson error. A new environment variable USEWMI4ORUSB has been introduced to force the USB scan to be done through WMI. After setting the new variable, it is necessary to reboot the machine before distributing an Inventory scan.

APAR IY74421**Abstract:**

Incorrect directory used by the **winviso** command on Windows endpoints

Error Description:

On Windows endpoints, the **winviso** command creates, under the path %LCFROOT%/inv/ISOLATED, a directory whose name is INV followed by a four-digit number representing the Inventory scan ID:

`%LCFROOTi%/inv/ISOLATED/INVxxxx`

The correct directory name should be the InventoryConfig profile name:

`%LCFROOT%/inv/ISOLATED/inv_profile_name`

The problem does not occur on UNIX endpoints. On Windows endpoints, this problem occurs only if the `%LCFROOT%/inv/ISOLATED/inv_profile_name` directory already exists.

APAR IY75165**Abstract:**

Different processor speed in MIF file and database

Error Description:

Inventory does not manage the processor speed changes.

APAR IY75168**Abstract:**

MIF parse error in the `mrmbios.mif` file

Error Description:

When parsing the `mrmbios.mif` file, the hardware scan might fail with the following error:

`Mrmbios.mif: line 1: Syntax error: CompName unexpected`

APAR IY75169**Abstract:**

The Inventory header scan works with errors

Error Description:

The Inventory header scan works correctly even if, when running a query on one of the endpoints of the scan, for some packages the reported version is incorrect. It is the version of the previous package.

APAR IY75238**Abstract:**

Problem with the `SYS_UUID` field in the `INST_SMBIOS_DATA` table

Error Description:

Running the `wscanner` command, the `tivhscan.mif` and `mrmbios.mif` files do not contain the System UUID attribute.

APAR IY75350

Abstract:

Ultrasparc III+ processor is not properly recognized

Error Description:

Inventory shows Processor type SPARC Family.

APAR IY75358

Abstract:

BIOS_DATE in PC_BIOS_VIEW and SMBIOS_DATA_VIEW do not match

Error Description:

Logs show that the BIOS_DATE attribute has a different value in the mrmmbios.mif file and in the tivscan.mif file.

APAR IY75611

Abstract:

wgetinvglobal output cannot be parsed

Error Description:

The wgetinvglobal command output cannot be parsed.

APAR IY76004

Abstract

Inventory hardware scan crashes backup tapes

Error Description:

Inventory hardware scan crashes backup tapes on Solaris and Linux™ endpoints. The problem occurs if a new tape is inserted during the scan.

Additional Info:

A new environment variable CHECK_ULTRIUM_TAPE_RUNNING has been introduced.

APAR IY76150

Abstract:

Duplicated NATIV_ID values for different products on AIX®

Error Description:

When performing a software native scan on AIX machines, some installed packages detected in the tivrsan.mif file are not inserted into the database, in the NATIV_SWARE table.

APAR IY76421

Abstract

Update internal tables for Intel® and AMD processors

Error Description:

The tables used by the Inventory scanner to discover Intel and AMD processors are not updated.

APAR IY76623

Abstract:

TIVHSCAN.MIF file parsing error

Error Description:

Error in the Processor table for the processor speed. It is reported with a negative value. The problem occurs when the processor speed exceeds 2 GHz.

APAR IY76778**Abstract:**

Obsolete information from WMI queries

Error Description:

In the tivhscan.mif file there are invalid entries in the IP Address Table with _A , and _B. It is a Microsoft known problem.

APAR IY77367**Abstract:**

OS/400 **before scan** scripts are not executed

Error Description:

Any **before scan** script does not run on OS/400 endpoints.

APAR IY77378**Abstract:**

INV000 folders left in data handler runtime directory after APM notification

Error Description:

Using Activity Planner to distribute Inventory profiles, after the scan the INV000 folders in the data handler runtime directory are not deleted. Submitting a scan outside of Activity Planner works correctly.

APAR IY77438**Abstract:**

Missing processor information for Linux endpoints

Error Description:

No physical CPU is detected when hyperthreading is enabled for Red Hat Enterprise Linux AS release 4 installed on VMware endpoints.

APAR IY77522**Abstract:**

WSCANNER.EXE is unable to use the driver CITMDRV.SYS on T42 thinkpads.

Error Description:

Using IBM Tivoli Configuration Manager 4.2.3 Fix Pack 1, the wscanner command fails on T42 thinkpads running Windows XP SP2. The command works fine with IBM Tivoli Configuration Manager 4.2.3 GA Version, or with IBM Tivoli Configuration Manager 4.2.3 Fix Pack 1 on other thinkpad models such as T41.

APAR IY77660**Abstract:**

Before/After script cannot be executed.

Error Description:

If an inventory profile, enabled to run a **before/after** script, is distributed to a Windows endpoint configured to start every program from C: drive, the following error message is displayed:

```

INVCF0001E MDist returned the following error for scan ID 1585
on client DSG__DMPHCCM01_EP:
Command `beforesec.cmd' failed (argv[0] = `beforesec.cmd' status =
0 errno = 256).

```

APAR IY77822

Abstract:

Manufacturer ID reports Sharp on IBM XSeries 225 model

Error Description:

On the XSeries 225 model servers, the mrm bios.mif file reports Sharp as Manufacturer ID, while the winbios output shows IBM.

APAR IY78108

Abstract:

Inventory GUI not opened due to a NOT_FOUND error in odstat

Error Description:

The Inventory GUI on UNIX cannot be opened due to a NOT_FOUND error in the odstat. The problem might occur when the Framework WD_DESKTOP_HOST variable contains the fully qualified hostname of the local workstation, and there is no managed node with this fully qualified hostname in the odlist output. The workaround consists of adding a short hostname in the odadmin odlist for the involved managed node.

APAR IY78414

Abstract:

TIVHSCAN.MIF parse error in Storage table

Error Description:

Hardware scan might fail on some Windows endpoints showing the following MIF parse error:

```

tivhscan. mif: line 816: syntax error Context: "-"
Found -1 in entry for Storage Table for Oxford, IDE device entry
Failing Entry is:
3,"54799cf527324776551a413e04bfc9de",30,"Oxford Semiconductor
OXFORD IDE Device LUN 0 IEEE 1394 SBP2 Device","Oxford","",
-1,1,1,2097151}

```

The error is due to a negative value in the Storage table corresponding to the cylinders attribute.

APAR IY79236

Abstract:

Data is truncated in the PACKAGE_VERS field of the table NATIV_SWARE

Error Description:

In the PACKAGE_VERS field of the table NATIV_SWARE, data is truncated to less than 32 characters.

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-CLL-FP02				
IY77219				

The following section describes each APAR in detail.

APAR IY77219

Abstract:

IOM_SEND error for MC_GET_DATA with SINGLE_PORT_BDT enabled

Error Description:

If setting the single_port_bdt option and leaving the port number to the default value, which is 9401, the following communication error occurs in the mcollect.log file:

```
iom_send failed with code 67: communication failure.
```

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

Table 8. Software Distribution APARs and defects included in this fix pack

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
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			

The following section describes each APAR or defect in detail.

APAR IY73006

Abstract:

EXEC_TIME incorrectly updated for undoable installation

Error Description:

When you install a package using the undoable option, all the packages with the same name and old version are wrongly updated in the database.

APAR IY73540

Abstract:

Microsoft files left in Software Distribution message directory in case of load operations to a stopped gateway with deleted nested software packages

Error Description:

Load a software package, nesting another package, to a stopped gateway, and delete the primary or the nested package. Restart the gateway. The Microsoft files remain in the message directory when the reports return to the Tivoli server, and are never removed.

APAR IY73565**Abstract:**

winstsp and wdinstsp operations at the same time cause NetWareabend

Error Description:

Configuration Manager on NetWare can manage only one process at a time. If a process is loaded while another one is running, the server abends. For example, issuing a disconnected installation while a connected installation is still running, causes theabend.

Additional Info:

With the fix implemented in all wd* commands, if a process is already running, disconnect commands exit with the following message:
Another application is already running. Please try later again.

APAR IY73905**Abstract:**

Lenient distribution ignores targets.

Error Description:

The **winstsp -T** command does not recognize targets listed in the file and distribution fails even if the `lenient_distribution` option is set to true.

APAR IY74170**Abstract:**

EXEC_TIME in the SD_INST table is empty after an undoable installation and a commit

Error Description:

Install a software package in undoable mode:

```
winstsp -ty -uy sp
```

And commit it:

```
wcomtsp -cr sp
```

When the commit is completed, the field EXEC_TIME taken from SD_INST is empty.

APAR IY74293**Abstract:**

SPB_INSTALLER does not work on CM 4.2.2 fix pack 1

Error Description:

When the SPB_INSTALLER wizard starts, the following error message is displayed:

libguid60.dll not found.

APAR IY74392

Abstract:

Problem retrieving a file with variables in the filename

Error Description:

When you perform a retrieve data from an endpoint to a managed node and the name of the file to be retrieved contains a variable, the file is retrieved without creating the default *endpointname_distributionID_timestamp* sub-directory under the specified destination directory on the source host.

APAR IY74578

Abstract:

Undoable installation not complete if endpoint is turned off during the distribution

Error Description:

Installing a huge software package using the undoable option, and turning off the endpoint during the file transfer interrupting the distribution, when the endpoint is turned on again, the distribution restarts, but completes in error.

APAR IY74585

Abstract:

EXECUTE_USER_PROGRAM using SUCCESS_REBOOT_NOW_REEXECUTE does not work correctly when using commit with user reboot

Error Description:

If you run wcommtsp -c y against a software package containing a script ending with a return code equal to success_reboot_now_reexecute, after the user reboot, the commit action starts and the script runs and exits with a success_reboot_now_reexecute code. The endpoint reboots but does not rerun the script.

APAR IY74764

Abstract:

Problem sending multiple software packages using commit in a user reboot

Error Description:

When installing multiple software packages using commit in a user reboot, by running the command winstsp -ty -cy sp, and then performing a manual reboot, the packages are not always committed in the correct order.

APAR IY74801

Abstract:

Problem with packages with a USER_PROGRAM DURING_COMMIT

Error Description:

Install two packages with a user_program during_commit, p1 and p2, using the following options:

-ty -cy

Where the user_program during_commit the first time exits with:
success_reboot_now_reexecute

and the second time exits with:

success

Manually reboot the endpoint. After the reboot, `resinit` processes the package `p1`, that needs another reboot, but before this reboot occurs, the package `p2` is processed. Instead, the machine should reboot before processing the package `p2`.

Additional Info:

To change the default `resinit` behavior, add the new key `resinit_one_reboot` in the `swdis.ini` file on the target. 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, `resinit` processes the packages one by one, and if a package requires a reboot, the endpoint is rebooted immediately.

APAR IY74805

Abstract:

Sending notices to notice groups does not work properly

Error Description:

After distributing a software package with the **Notice to software distribution group** check box checked, in the notices the administrator name is corrupt.

APAR IY74847

Abstract:

Datamoving send operation panel display the selected **Pre-script at Origin** file in the wrong field

Error Description:

Set **DataOriginType** to endpoint. Select a file for **Pre-script at Origin** using the **browse** button. The selected path is displayed in the **File Path at Origin and File Name** field. It should be displayed in the **Pre-script at Origin** field.

APAR IY75068

Abstract:

wspmvdata causes access violation error using empty target list

Error Description:

If you run the **wspmvdata** command using an empty target list file on a Windows Tivoli server, an Access Violation error occurs.

APAR IY75145

Abstract:

Importing Windows CE SPB from endpoint generates error

Error Description:

When trying to import a Windows CE software package block from the endpoint in a freshly installed Configuration Manager 4.2.2 environment, the following error occurs:

```
ISSE0045E E Software package operation failed  
libtwg.dll not found
```

APAR IY75236

Abstract:

SUCCESS_IN_A_REBOOT exit status not working correctly

Error Description:

The success_in_a_reboot software package exit status is not functioning correctly. The software package does not continue with the next action contained in the package and does not set the status to IC-BC. For example a package, where the next action is to run another script that has corequisite files, does not copy the corequisite files into the destination directory.

APAR IY75263**Abstract:**

Registry entry left in HKLM subkey after a resinit.bat execution

Error Description:

To perform a manual reboot on the endpoint, Software Distribution adds the keyword HKLM/SOFTWARE/Tivoli/Swdis/SwdisRestart value to the resinit.bat path. This keyword is readable and left after the reboot execution.

Additional Info:

After the fix, the key is encrypted.

APAR IY75474**Abstract:**

Priority specified in a send operation between endpoints is not honored

Error Description:

Submit a send data moving operation between two endpoints specifying a low priority. When the distribution reaches the target endpoint, the priority is changed.

APAR IY75754**Abstract:**

The order of remove operation for actions in container is not reverted

Error Description:

The actions within a container are not reverted at the remove time as is the case with the actions listed as software package actions.

APAR IY75778**Abstract:**

Distributing inventory scan to Windows CE device causes IBM agent to crash

Error Description:

When you distribute an inventory scan to a Windows CE device, the IBM agent crashes.

Additional information:

You can enable the PocketPC device agent, as follows:

1. On the source host, in a temporary directory such as C:\temp, copy the ceagent.arm.CAB and Tivoli_PocketPC_ARM_Agent_Patch.v4.2.3.FP01.spd files from the directory PocketPC.

2. Edit the package Tivoli_PocketPC_ARM_Agent_Patch.v4.2.3.FP01.spd by setting the value of the agent_name_dir, location, and name variables. The agent_name_dir is the Agent path on the device, while the location and name are used to set the path of the ceagent.arm.CAB file on the source host, such as C:\temp\agent.
3. Import the package.
4. On the Tivoli Web Gateway, stop the Device Manager Server
5. Update the Device Manager database.

Note: All pending operations should be completed and connections to the database closed while you are performing the following steps:

- a. Invoke a DB2CMD shell on the database server.
 - b. Change directories to the Device Manager server install directory: dms_home/bin /data.
 - c. Connect to the Device Manager database. (For example: db2 connect to dms user dmsadmin using password).
 - d. Invoke the patch script. For example: db2 -tvf IY75778_db2.sql
6. On the Tivoli Web Gateway, start the Device Manager Server
 7. Distribute the package to the device. The package installs the files on a permanent path of the device.

Note: During the Agent installation, you receive a message on the device asking if you want to install the IBM agent again. Click **OK** to confirm the installation.

APAR IY76008

Abstract:

Unable to save a second SPB using Speditor for AS/400

Error Description:

Using the Speditor for AS/400 to build a software package, you are able to save the first software package built. When saving the next software package built, the Speditor indicates that it is saved. However, when you open it, it shows the same content as the first saved software package.

Additional info:

The following error might be displayed when saving any software package built next:

DISSP6019E Failed to build

APAR IY76010

Abstract:

On AS/400 endpoints, *ALLOBJ special authority is required to build a package

Error Description:

To build a software package, *ALLOBJ special authority is required for a user profile.

Additional Info:

Ensure that the user home directory exists.

APAR IY76041

Abstract:

Corruption of registry keys with exported packages

Error Description:

Registry entries ending with \ characters are corrupted during the export operation.

APAR IY76100**Abstract:**

Installation fails on AS/400 endpoint when EXECUTE_USER_PROGRAM is processed

Error Description:

If you try to install a software package block created with Software Package Editor for AS/400 and containing a user program, the installation fails.

APAR IY76315**Abstract:**

Installation using the from_depot option goes in interrupted status

Error Description:

If you install a software package with the option from_depot=y and you set wswdmgr from_depot=yes, when the distribution reaches the endpoint, an INTERRUPTED event is generated and an incorrect package size is sent back.

APAR IY76488**Abstract:**

TEMP.SP and TEMP.SPB files not deleted after package built on AS/400

Error Description:

When you build a software package with Software Package Editor for AS/400, the file temp.spb is created under the directory /tmp on the AS/400. After the build the file temp.spb should be removed.

APAR IY76694**Abstract:**

SUCCESS_REBOOT_NOW_REEXECUTE exit code does not allow to force the reboot

Error Description:

When you specify an exit code that relates to a success_reboot_now_reexecute value, you reboot the PC using only a soft reboot. An option is needed to specify a hard reboot.

APAR IY76698**Abstract:**

On Solaris Tivoli server, SWDMGR does not honor MAX_RPC_THREADS

Error Description:

On the Solaris Tivoli server, when the environment is extremely busy, the following error might occur in the oserv log file:

Unknown failure sending method request

APAR IY76831

Abstract:

User notification dialog not displayed on the endpoint

Error Description:

When enabling the user notification dialog, the dialog pop-up is not displayed, even if the software distribution traces show that it is.

APAR IY76968**Abstract:**

Wrong behavior when installing software package with native MSI package that installs only one of several features

Error Description:

Using the Software Package Editor, create or edit a MSI package that installs several features. Set the **Do not install** option for one feature. The problem is that, during the installation, the package forces the installation of all features.

APAR IY77069**Abstract:**

wfptosp does not handle Linux interpreter type

Error Description:

Using the **wfptosp** utility to convert a file package to software package, the package automatically generated does not contain a valid mapping for Linux endpoints.

APAR IY77071**Abstract:**

Warning message importing a software package created by the **wfptosp** command

Error Description:

Use the **wfptosp** utility to convert a file package having an entry such as `unix_xxx_input_from_src=y` to software package. When importing the software package, the following warning message is displayed:
Unread attribute descend_dirs in context corequisite_files.

APAR IY77172**Abstract:**

SPD_ENG traps when **wspmvdta** is run to retrieve a non existent file

Error Description:

When running the **wspmvdta** command with the **-G** option to retrieve a file, that does not exist on the source host, Dr. Watson shows an access violation error.

APAR IY77261**Abstract:**

Checkpoint and restart do not work for delta packages if a network failure occurs

Error Description:

If a network failure occurs when performing a delta package installation, the distribution fails and the following error is logged on the Tivoli server:

DISSE0045E Software package operation failed. Error message:
DISSE0423E Failed to run HPCP delta algorithm. Error number: -1.

APAR IY77361

Abstract:

The Software Package Editor does not work correctly using **Install HP packages**

Error Description:

The Software Package Editor does not work fine using the **Install HP packages** feature, when the file does not exist on the machine where you are creating the package. In this case, no information about the package file is saved and the package cannot be installed.

APAR IY77363

Abstract:

Software package issue

Error Description:

When you build a package with the following settings for the `execute_user_program` on commit:

```
transactional = y  
- bootable = y  
- retries = 1 (or greater)
```

When the user program is run for the first time, it initiates a hard reboot and does not exit before the machine is rebooted.

APAR IY77508

Abstract:

`SPE_GUI` variable defined in the Software Package Editor for Endpoints

Error Description:

When installing the Software Package Editor on the endpoint, the `SPE_GUI` variable has been introduced. This variable, by default set to yes, enables you to update the Software Package Editor GUI.

APAR IY77516

Abstract:

Software package installed with `-ty -cn` or `-ty -cy` remains in IP-BC status

Error Description:

When installing a software package using either the option `-ty -cn` or `-ty -cy`, the software package never reaches the status IC--- and remains in IP-BC.

APAR IY77526

Abstract:

`REG_TL_PLUGIN.SH` is not downloaded when upgrading Configuration Manager from 4.2 to 4.2.x

Error Description:

The script `REG_TL_PLUGIN.SH` is not downloaded to the Tivoli server during an upgrade of IBM Tivoli Configuration Manager from 4.2 to 4.2.x.

APAR IY77601

Abstract:

Defer option not working for user notification

Error Description:

When distributing a software package to a Windows endpoint with the endpoint notification enabled, the mandatory date, the defer option allowed, and the Daylight Saving Time set on, the comparison between defer time and mandatory date is performed without considering the Daylight Saving Time.

APAR IY77602**Abstract:**

No AM/PM indicator in the **Time to defer** field of the User Notification panel

Error Description:

The **Time to defer** field on the User Notification panel does not display the AM/PM option.

APAR IY77689**Abstract:**

If an endpoint is manually rebooted the **retry** attribute is not run when the endpoint is up and running again

Error Description:

When installing transactionally, and then committing with a user reboot, a software package containing a script in the COMMIT stanza with the following options set:

- bootable=y
- retry=1

The retry of the script does not occur when the endpoint is up and running again.

APAR IY77833**Abstract:**

Check disk space allows only non-numeric entries

Error Description:

When entering the drive field of the check disk space properties panel, only an alphabetic character is accepted. A numeric value, if entered, is cancelled.

APAR IY77936**Abstract:**

Temporary files are not deleted when MESSAGE_DIR_USABLE_QUOTA is reached

Error Description:

When the message_dir_usable_quota value is reached, new temporary files are created but the old ones are not deleted.

APAR IY78072**Abstract:**

Commit program does not run in case of checkpoint restart

Error Description:

If a software package is installed transactionally, auto-commit with a user reboot, the commit program does not run after the user reboot in case of checkpoint restart.

APAR IY78195**Abstract:**

Software Distribution failure

Error Description:

When a software distribution contains nested packages, in case of checkpoint restart the distribution of some packages might fail on different endpoints.

APAR IY78598**Abstract:**

Notification manager performance issue

Error Description:

The invocation of the Gateway remote method from the Notification manager shows a performance problem for load and unload operations.

APAR IY78897**Abstract:**

WEXPSP0 causes hang when using again software package in lost-n-found

Error Description:

When a software package is in lost-n-found and you run against the software package the following command:

```
wexpspo software_package_name
```

the prompt hangs. Control -c is the only way to get back your prompt.

APAR IY79008**Abstract:**

wfptosp does not manage "&" when used for package names causing script failure

Error Description:

On UNIX platforms, the migration of a file package, whose name contains special characters such as &, using the wfptosp command, fails with the following error:

```
FRWTT0003E An instance named instance_name of resource  
FilePackage_name was not found.
```

APAR IY79151**Abstract:**

POST.CAT and POST.CAT.SEM are locked by other Software Distribution processes

Error Description:

Software distributions might fail on some servers. The Software Distribution traces show that the post.cat and post.cat.sem files cannot be unlocked.

APAR IY79299

Abstract:

WDUSRPRF.EXE traps and displays a popup error

Error Description:

When logging on to an endpoint with a user that has a temporary variable that points to a non existing temporary directory, the WDUSRPRF.EXE user profile update program traps.

Activity Planner: The following APARs and internal defects for Activity Planner were fixed:

Table 9. Activity Planner APARs and defects included in this fix pack

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				

The following section describes each APAR in detail.

APAR IY72845**Abstract:**

On UNIX Tivoli server, output file from APM task is written by tivapm user

Error Description:

A task defined by the Activity Planner Editor, with the Save to file option set in the Execute task panel properties, is run using the properties of the user currently logged on at plan submission time, but the task output file is created by the tivapm user.

APAR IY72998**Abstract:**

Activity Planner loops when processing more than 200 activities

Error Description:

A loop might arise when the number of activities in a plan is very high, during a restart or during a submission of a plan. The activities of the plan are processed several times instead of once.

APAR IY73503**Abstract:**

Plan fails if endpoint name contains region name

Error Description:

The submitted plan fails and shows the following error in the Activity Planner log file:

One or more targets are not currently subscribers of the profile manager which contains the software package.

APAR IY73578

Abstract:

wmonpln command might generate a core dump trying to manage an exception

Error Description:

The wmonpln command might generate a core dump on AIX platforms, if it is invoked while the APM processes are up and running but the oserv process is going down.

APAR IY73642**Abstract:**

In the Activity Planner monitor GUI the activities are listed with incorrect order after selecting a filter

Error Description:

From the Activity Planner monitor GUI the resulting activities are listed in an incorrect order, if you apply a filter on a plan and then you restore the All Plans view.

APAR IY74285**Abstract:**

Default filter cannot be set using **wapmfltr**

Error Description:

It is not possible to set the DEFAULT_FILTER parameter using the **wapmfltr** command.

APAR IY74288**Abstract:**

Add new option to **wapmfltr**

Error Description:

Users with the APM_View role cannot save filters or set default filters. This problem has been solved by adding the -u option to the **wapmfltr** command.

APAR IY74438**Abstract:**

Operation conditioned by depot not working

Error Description:

In an activity plan, a software distribution operation activity, such as a transactional installation, that is conditioned by Completion Depot or Success Depot of a previous load activity, does not start on the endpoints when the related gateway completes, but it does start when all the gateways have completed.

APAR IY74468**Abstract:**

Missing target when CACHE_GLOBAL_TARGET_INFO=YES

Error Description:

When setting cache_global_target_info=yes in the apm.ini file, the targets that are found in the global cache are not added to the local cache. All the activities, following the first activity of the plan, do not contain those targets.

APAR IY74754

Abstract:

APM activities not cancelled after complete_not_after date and time values are reached

Error Description:

After complete_not_after date and time values are reached, waiting and paused activities do not go into the cancel state in the APM monitor GUI.

APAR IY74842

Abstract:

Activity plan monitor GUI loops when refreshing data for huge plans (more than 400 activities)

Error Description:

From the Activity plan monitor you refresh data for some plans consisting of hundreds of activities. If you click **Reload Data for the selected item** on the plan, the monitor loops. No problem occurs if you click **Reload data from APM database**.

APAR IY74892

Abstract:

If the variable TARGET_LIST contains a curly bracket, the APM engine loops

Error Description:

If the activity plan specifies the target by the TARGET_LIST variable and the first parenthesis is a curly bracket, the APM_engine loops causing 100% of CPU usage.

APAR IY74948

Abstract:

Resume of activity plan might fail, if plan is submitted as PAUSED and the first activity is an ACCEPT

Error Description:

You submit a plan as PAUSED consisting of four activities and the first activity is an ACCEPT. When the plan is resumed, a failure occurs on the plan because the first activity fails. The exception caught is:
No target list has been specified for operation Accept.

APAR IY75060

Abstract:

APM does not meet the max_rpc_threads setting

Error Description:

Activity Planner does not manage the maximum number of Tivoli methods defined in the max_rpc_threads setting.

APAR IY75114

Abstract:

Discrepancy between MDist and APM planner status

Error Description:

When the plan is completed, the endpoint status for a distribution is not updated with the final status.

APAR IY75608

Abstract:

Conditioning not working with CD(LOAD) and ST(INSTALL)

Error Description:

When an activity is conditioned by depot by another activity, a check is performed against all the conditioning activities and if one of them has not-managedNode as a target, the following error occurs when trying to submit the plan:

```
AMN0164E Conditioning by depot cannot be used for activity "Install"
because at least one conditioning activity has no targets
of type ManagedNode.
```

APAR IY75767

Abstract:

Conditioning not working with FAIL_ACT condition type

Error Description:

A plan contains some software distribution activities, and has a single endpoint target. Each activity is conditioned by the status of the previous activity. There is an additional activity at the end of the process. This last activity should be performed when any of the previous activities fails, it is a FAIL_ACT condition. But after the first activity completes successfully, FAIL-ACT is cancelled, and the overall status of the plan is cancelled.

APAR IY75834

Abstract:

Indexing needed to prevent deadlock condition in APM

Error Description:

Using an Oracle database in the Activity Planner, not indexed foreign keys can generate deadlocks. After installing this fix pack, run the SQL script plans_ora_schema_update_index.sql located under the directory \$BINDIR/TME/APM/SCRIPTS.

APAR IY76002

Abstract:

wcntpln -f does not set the plan status to cancelled

Error Description:

Even if you force a cancel of a plan activity, the final status of the plan is successful.

APAR IY77319

Abstract:

Discrepancy between WMDIST and WMONPLN when deleting endpoints

Error Description:

When you delete endpoints during the running of a submitted plan with set deadline, the wmonpln and wmdist outputs contain different information. While the first reports a completion status for the activity, the second reports a waiting status for the deleted endpoints.

APAR IY77871

Abstract:

Plan remains WAITING if restarted after COMPLETE_NOT_AFTER

Error Description:

When submitting a plan with a `complete_not_after` date set, if the plan fails and gets restarted after the `complete_not_after` date, it goes into WAITING status and no plan activity is run.

APAR IY78261**Abstract:**

Problem submitting APM plans to endpoints with the same label

Error Description:

A problem occurs when submitting Activity Planner plans to endpoints with the same label but belonging to different regions, if the `retrieve_gateways_info` option is set to No in the `apm.ini` file.

APAR IY78280**Abstract:**

APMLOG1 is overwritten instead of being appended

Error Description:

The `apmlog1` file is overwritten instead of being appended when Activity Planner is restarted and `apmlog1` is the last current log file. If the last current log file is `apmlog0`, the problem does not occur.

APAR IY78519**Abstract:**

CANCELBYCOND report is returned in APMLOG0 and WMONPLN output

Error Description:

Plans are completed after a plan restart, even if some activities were canceled by condition and the Activity Planner engine has been stopped and started during the plan restart.

APAR IY78730**Abstract:**

Conditioned activities might not start if execution windows are specified on Sunday

Error Description:

When you submit a plan on Sunday with many conditioned activities, some activities might not start even if the conditions are met.

APAR IY78980**Abstract:**

MDist 2 GUI not starting from Activity Planner GUI on Windows XP platforms

Error Description:

The MDist 2 GUI does not start from the Activity Planner Monitor GUI using the Tivoli Desktop on Windows XP platforms.

Change Manager: The following APAR and defects for Change Manager were fixed.

Table 10. Change Manager APARs and defects included in this fix pack

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

The following section describes each APAR in detail.

APAR IY64369

Abstract:

The Search for reference models option does not work

Error Description:

The Search for reference models option does not work if the Table View of the reference model is selected. When you enter a reference model label in the Search for reference models panel, the reference model is found and the correct subscribers of that reference model are displayed, but it is not highlighted, and an incorrect reference model is highlighted.

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: The Web Interface, Version 4.2.2 component does not currently contain any fixed APARs.

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.

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
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 and defects 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. 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 14. 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 15. 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				

Table 15. 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. (continued)

IY67416	IY67572	IY72490	IY73227	
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Table 16. 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 17. 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 18. 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 19. 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 20. 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 21. 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				

Installation

This section describes how to install fix pack 2 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”
- “Software package block (SPB) fix pack installation for GUI components” on page 34
- “Updating the Inventory schema” on page 38
- “Upgrading plug-ins” on page 38

Hardware and software requirements

This section includes the following topics:

- “Supported platforms”
- “System requirements”

Supported platforms

Supported platforms at the time of the release are detailed in the *IBM Tivoli Configuration Manager: Release Notes*. For the most recent information, consult the supported platforms matrix on the IBM software support Web site: <http://www.ibm.com/software/support>.

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

System requirements

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” on page 32

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 33

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 33

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 34
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 4.2.1 Installation CD-ROM:
 - 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 2 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 2 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 22 on page 34. 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 2 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 22. IND files for components

IND file	Component name	Tag
422INVFP	Inventory, Version 4.2.2	4.2.2-INV-FP02
422LCFFP	Inventory Gateway, Version 4.2.2	4.2.2-INVGW-FP02
422CLLFP	Scalable Collection Service, Version 4.2.2	4.2.2-CLL-FP02
SWDFP2	Software Distribution, Version 4.2.2	4.2.2-SWDSRV-FP02
SDGWFP2	Software Distribution Gateway, Version 4.2.2	4.2.2-SWDGW-FP02
SDJFP2	Software Package Editor, Version 4.2.2	4.2.2-SWDJPS-FP02
APMFP2	Activity Planner, Version 4.2.2	4.2.2-APM-FP02
CCMFP2	Change Manager, Version 4.2.2	4.2.2-CCM-FP02
TRMFP2	Resource Manager, Version 4.2.2	4.2.2-TRMSRV-FP02
TRMGWFP2	Resource Manager Gateway, Version 4.2.2	4.2.2-TRMGW-FP02
WEBUIFP2	Web Interface, Version 4.2.2	4.2.2-WEB-FP02
PMFP2	Pristine Manager 4.2.2	4.2.2-PMSRV-FP02
PMGWFP2	Pristine Manager Gateway 4.2.2	4.2.2-PMGW-FP02

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 22.

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 36
- “Software Distribution server command” on page 37
- “Software Distribution disconnected command” on page 37

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 23.

Table 23. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_APM_GUI_Fix.v4.2.2.FP02		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_CCM_GUI_Fix.v4.2.2.FP02		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_SWDEP_PC_Fix.v4.2.2.FP02		
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.FP02		
target_dir	\$(product_dir)\SD422CLI	
Tivoli_SWDEP_OS2_Fix.v4.2.2.FP02		
package_type	ALL	
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_UNIX_Fix.v4.2.2.FP02		
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.FP02		
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.

Table 23. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
Tivoli_SWDEP_400PS_Fix.v4.2.2.FP02		
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.FP02		
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.FP02		
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.
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.

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 2 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 2 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 the `setup_platform.bin`.

3. Read the Welcome panel and click **Next**.
4. Specify the CM422_SPB_FP02.xml file for the fix pack located in the /package subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 2 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 24.
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 installed on the endpoint. If you need to overwrite the values of the default variables, use the "-D" option (wdinstsp -D variable=value GUI_component.spb) from the command line.

Software package block fix packs

Table 24 contains the names of the fix pack 2 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 24. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_APM_GUI_Fix.v4.2.2.FP02.spb	Tivoli_APM_GUI_Fix.v4.2.2.FP02
Tivoli_CCM_GUI_Fix.v4.2.2.FP02.spb	Tivoli_CCM_GUI_Fix.v4.2.2.FP02
Tivoli_SWDEP_\$(interp)_Fix.v4.2.2.FP02.spb	Tivoli_SWDEP_\$(interp)_Fix.v4.2.2.FP02
Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP02.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP02
Tivoli_SWDEP_400PS_Fix.v4.2.2.FP02.spb	Tivoli_SWDEP_400PS_Fix.v4.2.2.FP02
Tivoli_WebUI_Fix.v4.2.2.FP02.spb	Tivoli_WebUI_Fix.v4.2.2.FP02
Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP02.spb	Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP02

Updating the Inventory schema

When you install a new fix pack, you might need to update the Inventory schema.

This fix pack installation places files named `inv_db_vendor_422_FP02.sql`, `inv_db_vendor_422_FP01.sql`, and `h_inv_db_vendor_422_FP01.sql` on the managed nodes where the patch is installed, in the following directory:

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

where:

`db_vendor`

Is the shortname for the database

If you have already installed and configured fix pack 1, you do not need to run the `inv_db_vendor_422_FP01.sql` and `h_inv_db_vendor_422_FP01.sql` scripts again.

Copy the appropriate schema scripts to any system where SQL access is available (such as the database server or the database client workstation if the client allows for SQL connectivity) to run the schema scripts.

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

Upgrading plug-ins

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

Activity Planner

If you have installed 4.2.2-APM-FP02, 4.2.2-SWDSRV-FP02, and 4.2.2-INV-FP02, run the following scripts located in the `$BINDIR/TME/APM/SCRIPTS` directory. You need the `APM_Admin` Tivoli region authorization role to run them in the following way:

- `sh reg_swd_plugin.sh -r`
- `sh reg_inv_plugin_patch.sh`
- `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 Task Library.

Change Manager

If you have installed both 4.2.2-CCM-FP02 and 4.2.2-SWDSRV-FP02, run the following command to upgrade the CCM plug-in:

```
wccmplugin -s SoftwareDistribution -f $BINDIR/TME/CCM/GUI/swd_plugin.xml
```

You need the `CCM_Admin` Tivoli region authorization role to run it.

If the Activity Planner is up and running before launching this command, perform the following steps:

1. Run the command to upgrade the CCM plug-in.
2. Stop the Activity Planner.
3. Start the Activity Planner. The CCM plug-in has been upgraded.

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 this feature with fix pack 1, do not read the following sections.

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-SWDSRV-FP02** Software Distribution server patch to update the Software Distribution command line and GUI.
2. Install the **4.2.2-SWDGW-FP02** Software Distribution gateway patch to update Windows endpoints.
3. Install the **4.2.2-APM-FP02** Activity Planner patch to update the Activity Planner GUI.
4. Upgrade the Activity Planner plug-ins, as described in “Upgrading plug-ins” on page 38.
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 `wdepцем.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,” 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 **wdepцем** command. For more information on this command, see “wdepцем” on page 44.

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\n Contact 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."

wdepccem

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

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

Options:

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

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

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

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

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

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

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

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

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

-M *popup_msg*
Defines the text contained in the dialog box displayed on the endpoint if the distribution cannot be paused and you set the **-m** option to **true**. When customizing the message, you can use the `\r\n` symbols for inserting a carriage return and the `$(DIST_ID)` variable which is replaced at run time with the distribution ID. The default value is: "The pause failed for distribution `$(DIST_ID)`\r\n Contact 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
- wcommtsp
- winstsp
- wspmldata
- wremovsp
- wundosp

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

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

-Y *max_login_allowed*

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

-W

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

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

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

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

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

Max Login Allowed

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

Disable Shutdown

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

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

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

Documentation notes

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

New information contained in this fix pack

This section contains new information for the following manuals of the IBM Tivoli Configuration Manager, Version 4.2.2 library.

User's Guide for Software Distribution

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

- **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*.

- **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 the final status of a plan to cancel if any of the plan activities have been cancelled, before submitting a plan.

- **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.

Reference Manual for Software Distribution

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

- **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.

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.	for an activity, which is not a software distribution, is not available. System action: The operation is not performed.
----------	---	---

Explanation: The MDist 2 GUI you are trying to open

Documentation problems and corrections contained in this fix pack

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

User's Guide for Software Distribution

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

- **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 IY71708**

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

- waccptsp
- wcommtsp
- 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 Inventory

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

- **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 **wgetinvunixsw** command with the following usage:

```
wgetinvunixsw [-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.

New information 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 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.

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.

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*.

- **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
- wcommtsp
- winstsp
- wspmldata
- 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 catalog to the file you specified. The information stored in the **epsp.cat** 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.

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[-I]] [-t mc_upcall_timeout] and add the following parameter to the **Options** section for command **wepscan**:

- I 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.

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.

User's Guide for Deployment Services

The following information changes apply to the *IBM Tivoli Configuration Manager: 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 "Subelements 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 *IBM Tivoli Configuration Manager: Messages and Codes*.

- **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.

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 62

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) 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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