

IBM Tivoli Configuration Manager



Readme File for Fix Pack 2 - PTF U800022

Version 4.2.1

IBM Tivoli Configuration Manager



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Version 4.2.1

Note

Before using this information and the product it supports, read the information in “Notices” on page 57.

First Edition (December 2004)

This edition applies to fix pack 2 (PTF U800022) for version 4, release 2, modification level 1 of IBM Tivoli Configuration Manager (program number 5724-C06).

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IBM Tivoli Configuration Manager 4.2.1 Readme File for Fix Pack 2 (PTF U800022)

This readme file provides important information about Fix Pack 2 (PTF U800022) for IBM® Tivoli® Configuration Manager Version 4.2.1. 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 4.2.1 (ITCM). This fix pack fixes a variety of defects on *Software Distribution (SWD)* , *Inventory*, *Activity Planner (APM)*, *Change Manager (CCM)*, *Tivoli Resource Manager*, *Web User Interface*, and *Query Directory* 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”
- “Product fix history” on page 4
- “Backward compatibility issues” on page 3
- “Product compatibility” on page 3
- “Limitations” on page 3

CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 2 includes *two* CD-ROMs:

Table 1. IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 2 (CD 1 of 2)

Directory or path	Contents
/xml	The XML file to be used by the ISMP installation program.
/docs	Readme file.
/images/INV	Images required for Inventory interim fixes.
/images/SWD	Images required for Software Distribution, Activity Planner, Change Manager, Tivoli Resource Manager, Enterprise Query Directory.

Table 2. IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 2 (CD 2 of 2)

Directory or path	Contents
/package	Software package block (SPB) files used to patch GUI components and the XML descriptor file.
/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 previous fix pack and in the current fix pack.

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

New Features in this fix pack

The following feature has been introduced in this fix pack.

Mandatory date in End User Notification window

You can defer a distribution until a preset time, which is specified by the administrator and is out of the end user control. When this mandatory date has been reached, the distribution will be delivered immediately to the end user.

New Features in previous fix packs

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

Table 3. Customer enhancement request references

Cancel Force button and menu option for the Activity Plan Monitor graphical user interface (GUI).	MR0509031922
SD_operation_failed event is customizable.	MR0311035824
Security improvements for the software package definition (SPD) file.	MR0205036850
Validation policy for Data Moving enabled.	MR051603275
The Change Manager CLI command timeout is now customizable.	Defect 49765

- **New Cancel Force button and menu option for the Activity Plan Monitor graphical user interface.**

A new **Cancel Force** button and menu option (**Selected → Cancel Force**) has been added to the Activity Plan Monitor graphical user interface. With this, you can change the operation state of an activity plan to “Cancelled”, even though submitted operations are not cancelled.

The **Cancel Force** button and menu option have the same functionality as the **wcntpln -f** command.

Note: The **Cancel Force** button and menu option appear in English only.

- **The SD_operation_failed event is now customizable.**

You can now choose the level of alarm you want to display for failed operations. Specify FATAL, CRITICAL, MINOR, or HARMLESS for the SD_operation_failed event in the tecad_sdnew.baroc file.

- **Security improvements for the SPD file.**

On UNIX[®] platforms, when you export a software package to SPD format, you have read and write privileges to the package, while all other users have only read privileges. For this reason, the owner of the exported SPD file should be the same user who exports the software package.

- **Validation policy for Data Moving enabled.**

The sp_val_operation policy that validates the targets addressed by a change management operation, now also validates the targets addressed by a send or receive operation.

- **The Change Manager CLI command timeout is now customizable.**

You can specify a timeout for CLI commands in Change Manager using the environment variable **_CCM_CLI_TIMEOUT_=<seconds>**. This is useful when you are using the **wsyncrmod** command to synchronize a reference model,

because you can specify a timeout that gives **wsyncrmod** enough time to successfully complete. You can set the `_CCM_CLI_TIMEOUT_` variable in the shell or in the `setup_env` file.

Backward compatibility issues

To address a problem with the user resource, the `V_PLAN_STATUS` view in the APM schema has been modified by adding the `TGT_RESOURCE_TYPE` field. This change prevents APM start and a message about invalid `TGT_RESOURCE_TYPE` appears.

To fix the problem, update the `V_PLAN_STATUS` view by running the script `plans_database_schema_update_view.sql`, where *database* represents the supported vendor database. After the installation of the Fix Pack 2 for APM component (4.2.1-APM-FP02), this script is located in the `$BINDIR/TME/APM/SCRIPTS` directory.

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 4.2.1 Fix Pack 2 was tested using Tivoli Management Framework, Version 4.1.1 plus the following interim fixes:

- 4.1.1-LCF-0010 interim fix for endpoints.
- 4.1.1-TMF-030 and 4.1.1-TMF-019 interim fixes for Tivoli management region servers, managed nodes, and gateways.

Limitations

Defect 50475

If IBM JRE 1.4.1 SR02 is installed, when you use the Web Interface Gateway to install a software package, the progress bar of the Web Interface Operation Console remains at 0% and the package is not installed.

This problem does not occur with IBM JRE 1.4.0 or Sun JRE 1.3.1. The limitation occurs with Fix Pack 1.

Defect 50575

SuSE Intel™ Tivoli server: When you perform a data moving operation using four scripts (pre and post at origin and destination), the post script at origin incorrectly runs twice per operation.

This limitation occurs with the GA version. It does not occur on Windows® platforms.

Limitations in DBCS environments

This section describes limitations that affect DBCS environments found during the use of IBM Tivoli Configuration Manager, Version 4.2.1, GA version, which were not reported in the *IBM Tivoli Configuration Manager Release Notes*®. It also describes limitations found during the use of IBM Tivoli Configuration Manager, Version 4.2.1, Fix Pack 2.

Defect 50163

The following message has been added to manage the data moving delete operation against a non-existing file.

```
DISSE0791W Delete not completed. File or path non-existent:  
'c:\temp\dest\data.txt'
```

In the data moving log, the message appears in English only

Defect 50417

The **Cancel Force** button and menu option in the Activity Plan Monitor graphical user interface appears in English only and not in Japanese. Any new features added to interfaces after the General Availability release are not translated until the next release of the product.

Defect 50527

In SuSE Linux™ 8, the Japanese input method used to enter Japanese characters into several Tivoli Java-based GUIs, is not invoked when Shift + space bar is pressed. This problem occurs on the following GUIs: Activity Plan Monitor, Change Manager, and Software Package Editor. The limitation occurs with the GA version.

Workaround: Add the line: `export XMODIFIERS="@im=kinput2"` to each of the following GUI start scripts:

- `$BINDIR/TME/APM/EDGUI/apmedit.sh`
- `$BINDIR/TME/CCM/GUI/ccmgui.sh`
- `$BINDIR/speditor/classes/sped_mn.sh`

Defect 50533

IBM Tivoli Configuration Manager 4.2.1 ISMP installation fails when the database is created in Japanese. This happens because there is no available conversion for the source code page 819 to the target code page UNKNOWN. Configuration Manager generates the error SQL0332N and **wrimtest** fails (FRWRA0012E: The RDBMS server call has failed.)

Workaround: After the ISMP fails at Step 22 (the registration of the Activity Planner plug-in):

1. Run `wsetlang -o -l ja_JP`.
2. Run `odadmin reexec all`.
3. Change the Step 22 status to **Available**.
4. Restart the ISMP installation.

Defect 50536

When you run the Data Moving Service from the Tivoli Desktop interface, if you select a DBCS-named file and click **Send and Close**, you receive the error: FRWSL0024E: a failure was detected was detected by the oserv, even though the Data Moving Service has run correctly. If you click **Send**, you do not receive this error.

Defect 50604

Windows platforms: If you create a file using the Software Package Editor for endpoint with a DBCS name that contains the characters 5C in the second byte, when you attempt to import the file to the software package profile, the file name is corrupted and the file cannot be imported.

Workaround: Input the DBCS file name to the Import File Location field manually.

This limitation does not occur with SuSE Intel Tivoli server.

Product fix history

IBM Tivoli Configuration Manager, Version 4.2.1, Fix Pack 2 supersedes all interim fixes released previously for the product. The following sections include all interim fixes shipped since the IBM Tivoli Configuration Manager, Version 4.2.1 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 4 lists the fixes included in this fix pack:

Table 4. Interim fixes included in this fix pack

Interim fix	Component/Service
4.2.1-INV-FP02	Inventory, Version 4.2.1
4.2.1-INVGW-FP02	Inventory Gateway, Version 4.2.1
4.2.1-SWDSRV-FP02	Software Distribution, Version 4.2.1
4.2.1-SWDGW-FP02	Software Distribution Gateway, Version 4.2.1
4.2.1-SWDJPS-FP02	Software Package Editor, Version 4.2.1
4.2.1-APM-FP02	Activity Planner, Version 4.2.1
4.2.1-CCM-FP02	Change Manager, Version 4.2.1
4.2.1-TRMSRV-FP02	Resource Manager, Version 4.2.1
4.2.1-TRMGW-FP02	Resource Manager Gateway, Version 4.2.1
4.2.1-WEB-FP02	Web Interface, Version 4.2.1
4.2.1-DQY-FP02	Enterprise Directory Query Facility, Version 4.2.1
4.2.1-PMSRV-FP02	Pristine Manager 4.2.1
4.2.1-PMGW-FP02	Pristine Manager Gateway 4.2.1

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

Table 5. Inventory APARs and internal defects included in this fix pack from 4.2.1-INV-FP02.

Inventory, Version 4.2.1 4.2.1-INV-FP02				
173472	173510	173514	173902	173904
174414	174421	174532	174635	174642
174654	174790	174921	175123	175134
175167	175168	175465	175648	175362
175382	175386	175464		
IY56885	IY58285	IY58460	IY58894	IY59253
IY59662	IY59666	IY60022	IY60094	IY60574
IY60578	IY60878	IY60977	IY61539	IY61580
IY62206	IY62375	IY63636	IY64626	IY62660
IY64677	IY64758	IY65052	IY65127	IY65261

The following section describes each APAR in detail.

APAR IY56885

Abstract:

Temporary folder not removed after inventory scan for signature matching.

Error Description:

When an inventory scan, configured for signature matching, is run, a temporary folder \$DBDIR/inventory/INVnnnn is created in the Tivoli server

during the profile distribution. This folder is not removed after the scan completes, because it contains the sigSpMap.txt file.

APAR IY58285

Abstract:

Custom scan remains pending indefinitely.

Error Description:

If a Perl script is included in the InventoryConfig profile, but Perl is not installed on the UNIX endpoint, the scan remains in a pending state. The scan stays pending for max_input_retries. The message "received an error CT0C" is logged in the data handler mcollect.log file.

APAR IY58460

Abstract:

Missing columns in the COMPUTER inventory table.

Error Description:

Add the following columns after the OS_TYPE column in the "COMPUTER" section, "Chapter 5. Configuration repository tables", of *Database Schema Reference, Version 4.2.1*:

OS_MAJOR_VERS

OS_MINOR_VERS

OS_SUB_VERS

OS_INST_DATE

REGISTERED_OWNER

REGISTERED_ORG

KEYBOARD_TYPE

FUNCTION_KEYS

TZ_LOCALE

TZ_NAME

TZ_DAYLIGHT_NAME

ON_SAVINGS_TIME

TZ_SECONDS

TIME_DIRECTION

RECORD_TIME

APAR IY58894

Abstract:

Inventory 4.0 shows incorrect processor speed on Windows systems.

Error Description:

Inventory 4.0 shows incorrect processor speed on Windows systems.

APAR IY59253

Abstract:

wdistinv returns scan ID equal to -1

Error Description:

The **wdistinv** command is unable to retrieve the scan ID of an InventoryConfig profile that belongs to an interconnected Tivoli region.

APAR IY59662**Abstract:**

Data inserted into PACKAGE_NAME field truncated if longer than 64 bytes.

Error Description:

Data inserted into PACKAGE_NAME field truncated if longer than 64 bytes. See the "Using SQL scripts to upgrade the schema" on page 39 section for more information on how to install this fix.

APAR IY59666**Abstract:**

The FS_FREE_ SIZE_KB negative value causes an error in MIF parse

Error Description:

The amount of free space on a mounted network drive reports a negative value.

APAR IY60022**Abstract:**

An error is returned when performing a scan for header information on a Japanese target.

Error Description:

When performing a scan for header information on a Japanese target with Japanese locale setting, the following parse error occurs:

INVMIO020E A MIF parsing error occurred in file tivwscan.mif at line 40. syntax error

Context: 263

The line in error contains the following values:

"263c8740d7b67b2898113356a1bec9b8","MicrosoftR QuickStart Tutorials","Microsoft Corporation"," x0f x02 "
%=2

The problem does not occur if you change the locale setting to English.

APAR IY60094**Abstract:**

After installing 4.2-INV-FP03, a file named DB_VENDOR_DEBUG is created in the \$DBDIR directory on the Tivoli server.

Error Description:

After installing 4.2-INV-FP03, a file named DB_VENDOR_DEBUG is created in the \$DBDIR directory on the Tivoli server (hosting the inventory data handler). Every time an endpoint is scanned successfully the following line is added: DB_Vendor = 1 to the file. This file generates space problems for the \$DBDIR directory.

APAR IY60574**Abstract:**

Inventory detects the wrong Mylex RAID controller

Error Description:

Hardware scan on Linux SuSE servers with a Mylex AcceleRAID 352 PCI RAID Controller installed, returns the RAID Controller as Mylex i960 AcceleRAID 170.

APAR IY60578**Abstract:**

Incorrect FS Mount Point and FS Access Point detected on Windows 2003

Error Description:

Hardware scan on a Windows 2003 target returns incorrect values for the FS Mount Point and FS Access Point information. The behavior is different when scanning a Windows 2000 target. For example, the FS Access Point and FS Mount Point on Windows 2003 are detected as "C:"," ", while on Windows 2000 they are detected as "C:\\","C:\\".

APAR IY60878**Abstract:**

Incorrect Linux processor count on targets with Hyperthreaded CPUs.

Error Description:

On Linux workstations with Hyperthreaded CPUs, the processor count is incorrect.

APAR IY60977**Abstract:**

Inventory scan fails on HP Compaq nc4000

Error Description:

Inventory scan fails on HP Compaq nc4000 laptop when the docking station is connected. The error occurs at the USB connection level.

APAR IY61539**Abstract:**

Inventory 4.2.1 does not recognize hard disks on Red Hat and Linux.

Error Description:

Inventory 4.2.1 hardware scan does not recognize hard disks on Red Hat E and Linux HP targets:

CCISS drives: The **fdisk -l** command does not return any information about local drives.

IBM drives: The **fdisk -l** command returns 0 as hard disk size.

APAR IY61580**Abstract:**

After applying 4.2-INV-FP03, wscanner detects an exception on NetWare endpoints.

Error Description:

If you apply 4.2-INV-FP03 and then you run a hardware scan, the wscanner.nlm detects the "File tivhscan.mif does not exist" exception on NetWare endpoints.

APAR IY62206

Abstract:

The **wdistinv -T** command fails with: resource 'duplicate' invalid.

Error Description:

The **wdistinv -T** command is unable to distribute an InventoryConfig profile to all endpoint subscribers specified in the subscription list file if the list is long and meanwhile one of the subscribers is deleted with the **wdelep** command.

APAR IY62375**Abstract:**

If you do not use the Windows Management Instrumentation (WMI) scanner, no all hard disks are detected.

Error Description:

When scanning a Windows 2000 endpoint without the Windows Management Instrumentation, Inventory does not detect all the hard disks if the endpoint has more than 20 hard disks.

APAR IY62660**Abstract:**

Incorrect values in output of the Driver Name and Driver Version attributes

Error Description:

In Inventory Version 4.0 and Version 4.2.1, when you use a Windows Management Instrumentation scanner, Driver Name and Driver Version attributes contain incorrect values.

APAR IY63636**Abstract:**

Inventory scan fails if mrmmbios.mif contains a value enclosed in double quotation marks.

Error Description:

Inventory scan fails if mrmmbios.mif contains a value enclosed in double quotation marks. An error message is displayed:
MIF parse error: mrmmbios.mif: line 63: Syntax error: "LifeBook".

APAR IY64626**Abstract:**

The inventory data handler crashes because the .DAT file is corrupt.

Error Description:

When the .DAT file contains invalid value, the inventory data handler crashes.

APAR IY64677**Abstract:**

MIF parse error on the tivhscan.mif file caused by the Monitor group.

Error Description:

An incorrect definition of the attribute ID of the Monitor group might generate a parse error in the tivhscan.mif file.

APAR IY64758

Abstract:

Activity plan remains in started status if status collector is not installed on the same managed node as the Inventory Server.

Error Description:

Activity plan containing inventory activities remains in started status if the status collector is not installed on the same managed node as the Inventory Server.

APAR IY65052**Abstract:**

Incorrect output of PROCESSOR_NUM_QUERY

Error Description:

Custom scan of an endpoint with multiple processors returns multiple entries, one for each processor, in the PROCESSOR_NUM_VIEW. A new processor_num_view.sql script is provided to solve the problem. See the "Using SQL scripts to upgrade the schema" on page 39 section for more information on how to install this fix.

APAR IY65127**Abstract:**

Duplicated network printers entries

Error Description:

The hardware scan generates duplicated entries for the same network printer

APAR IY65261**Abstract:**

The Port Name attribute for network printers contains only the sever name.

Error Description:

The Port Name attribute for network printers contains only the server name. It should contain both the server name and the port name when available.

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

Table 6. Software Distribution APARs and defects included in this fix pack

Software Distribution, Version 4.2.1, 4.2.1-SWDSRV-FP02				
49291	50163	50482	50565	50702
50744	50818	50913	50999	51074
51672	51686	51708	51711	51943
51952	51978	52352	52693	
IY56409	IY57781	IY58248	IY58340	IY58530
IY58637	IY59862	IY60607	IY60700	IY61460
IY61565	IY61637	IY61729	IY61753	IY62012
IY62538	IY62830	IY62921	IY62934	IY63340
IY63714	IY63861	IY64239	IY64478	IY64629
Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-FP02				

Table 6. Software Distribution APARs and defects included in this fix pack (continued)

50851	50915	51708	51869	51978
IY48900	IY57797	IY57874	IY58118	IY58248
IY58294	IY58794	IY59015	IY59054	IY59331
IY59930	IY60521	IY60607	IY60700	IY60734
IY60954	IY61152	IY61199	IY61445	IY61609
IY61637	IY61670	IY61729	IY61753	IY62095
IY62180	IY62378	IY62418	IY62557	IY62830
IY62924	IY62933	IY63151	IY63714	IY63808
IY64483	IY64706	IY64746		
Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-FP02				
IY60700	IY63378	IY63714		
Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-FP02				
51869	51978			
IY48900	IY52652	IY57797	IY57874	IY58118
IY58248	IY58294	IY58794	IY59015	IY59331
IY59930	IY60521	IY60607	IY60700	IY60734
IY60954	IY61152	IY61609	IY61637	IY61729
IY62095	IY62110	IY62180	IY62378	IY62418
IY62557	IY62924	IY62933	IY62981	IY63151
IY63714	IY63808	IY64483	IY64706	IY64746

The following section describes each APAR in detail.

APAR IY48900

Abstract:

A Software Distribution remove action on NetWare endpoints incorrectly reports a successful operation.

Error Description:

A Software Distribution remove action on NetWare endpoints incorrectly reports a successful operation and updates the Configuration Manager status to ----- even when all directories and files have not been removed. Empty directories remain on the endpoint, even when the **Remove Empty Directories** attribute is specified.

APAR IY52538

Abstract:

Import operation from an endpoint fails.

Error Description:

Importing a .spd file fails with the following message:

Import failed: FRWSL0024E A failure was detected
by the oserv daemon: FRWOG0003E general failure

APAR IY52652

Abstract:

The Activity Planner Manager cannot launch the MDist2 GUI. You can use

the following .spb file, Tivoli_MD2GUI_Fix.v4.1.1.FP01.spb to solve the Tivoli Management Framework problem.

Error Description:

The Activity Planner Manager cannot launch the MDist2 GUI.

APAR IY56409

Abstract:

Duplicate GUIDs are not correctly managed.

Error Description:

The primary key for the COMPUTER table is COMPUTER_SYS_ID: a given "tme_object_label" might match more than one COMPUTER_SYS_ID. After the fix pack is applied, workstations with duplicate GUID are removed from the target list. The error condition is traced in Software Distribution traces.

APAR IY57781

Abstract:

Results from data moving activities are not processed correctly and files are left in 'message' directory.

Error Description:

The problem occurs to the Software Distribution Notification Manager if an external file (dm* or md*) included in a message file is not present in the message directory. When an external file has been processed, it is removed. If the program stops abruptly, before the message file is processed, an error is received when the program starts again.

APAR IY57797

Abstract:

Cannot create a package with the following options: transactional, auto-commit, in-a-reboot.

Error Description:

The behavior of the manual reboot was changed by APAR IY51908 to match the behavior of the automatic reboot: files distributed are copied to the destination target directory before the reboot is performed. With this fix pack, the behavior of the manual reboot is returned to the previous standard: files are copied to the destination area only after the reboot.

APAR IY57874

Abstract:

Import of an MSI package with double quotes fails

Error Description:

When you export software package profile that contains an MSI package, into an SPD format, multiple pairs of quotes are added in the properties field definition.

```
propeties = "'TRANSFORMS=$(TransformID) REBOOT=$(RebootMSI)
INSTALLDIR=$(InstallDir_NavNT_WKS)'"
```

This causes an import error when trying to import into the Software Package Editor: DISSP6021E Failed to import...".

APAR IY58118

Abstract:

Failure on launching user-defined programs located in different paths

Error Description:

If you define a program in a software package without specifying the complete path and then you distribute the package to UNIX endpoints that have that program in their paths, the distribution fails because the program is not found.

APAR IY58248**Abstract:**

Removal of an InstallShield package on Windows XP fails.

Error Description:

On Windows XP workstations, a failure occurs during the removal of an InstallShield application that has been installed with the Automatic Uninstall feature selected. The problem occurs because on Windows XP workstations the uninstallation program starts with a dialog box, but not having access to the desktop the whole process stops. Some InstallShield applications (for example, Tivoli Desktop) require for the silent uninstall a response file, otherwise the uninstallation fails.

APAR IY58294**Abstract:**

Distribution waits for the default timeout before starting, even if no user is logged on.

Error Description:

If you perform a software distribution action on a workstation where no user is logged, the default action does not start immediately, but it waits for the default timeout period to expire.

APAR IY58340**Abstract:**

wspmvdata scripts fail after migrating from Software Distribution, version 4.2 to Software Distribution, version 4.2.1.

Error Description:

wspmvdata scripts fail after migrating from Software Distribution, Version 4.2 to Software Distribution, Version 4.2.1. The following error is displayed:

```
DISSE0123E Unable to execute or complete execution of program
'during_install -c:\temp\go.bat uno (retrieve EP_SCRIPT PRE_SCRIPT
c:/tmp/a.txt)'.
```

APAR IY58530**Abstract:**

When you upgrade Activity Planner from Version 4.1 to Version 4.2.1, the plans_ora_migr_41-421.sql script fails.

Error Description:

When you upgrade Activity Planner from Version 4.1 to Version 4.2.1, the plans_ora_migr_41-421.sql script fails and displays the following error:

```
ORA-02292: integrity constraint (PLANNER.PK_ACT_APPL) violated - child
record found when executing the statement DELETE FROM appl_operation
```

The problem occurs if activity plans are stored in the Activity Planner database.

APAR IY58637

Abstract:

Software Distribution threads stop when attempting concurrent RIM connections

Error Description:

There is a lack of synchronization when concurrent Software Distribution threads attempt to connect to the RIM.

APAR IY58794

Abstract:

The reboot option is forced in commit operations.

Error Description:

When you specify a commit operation with preferably-not-in-reboot, the reboot is forced.

APAR IY59015

Abstract:

The trace_size attribute inserted with Software Distribution 4.1 FP05 does not work on NetWare endpoints.

Error Description:

With Software Distribution 4.1 FP05, when tracing NetWare endpoints, the trace_size attribute does not work and multiple *.trc files are generated.

APAR IY59054

Abstract:

When distributing the */QSYS.LIB/QUSRSYS.LIB/CFG_MSG.FILE* on AS400, the file is not replaced on the target endpoint.

Error Description:

When distributing the */QSYS.LIB/QUSRSYS.LIB/CFG_MSG.FILE* on AS400, the new file does not replace the existing file, even when the existing file is different from the original file.

APAR IY59331

Abstract:

NetWare endpoints stop abruptly during software distributions due to incorrect handling of expiration information.

Error Description:

NetWare endpoints stop abruptly during software distributions due to incorrect handling of expiration information.

APAR IY59862

Abstract:

The size calculation feature available on the GUI returns negative numbers.

Error Description:

The size calculation feature available on the GUI returns negative numbers if the package total size (including nested packages) is greater than 2 gigabytes.

APAR IY59930

Abstract:

File names beginning with a blank cause an error when building the software package.

Error Description:

File names beginning with a blank cause an error when building the software package.

APAR IY60521**Abstract:**

Cannot add a keyword under the HKEY_CURRENT_USER (HKCU) registry key.

Error Description:

Software Distribution is unable to add keywords under HKCU. For example, if the .spd file contains the following:

```
add_win_registry_key
  add = y
  stop_on_failure = y
  replace_if_existing = y
  remove_if_modified = n
  parent_key = HKEY_CURRENT_USER/Software
  key = Test_Values
  override_permissions = y
```

the Test_Values key is not created.

APAR IY60607**Abstract:**

Failing conditions on containers are not logged.

Error Description:

When you use conditions in containers, failing conditions are not logged to the Software Distribution server log file.

APAR IY60700**Abstract:**

UNIX attributes added manually for corequisite files are lost after you import or open a .spd file.

Error Description:

The UNIX attributes that you add for corequisite files in a .spd file are lost when you import the .spd file and export it.

APAR IY60734**Abstract:**

An undo operation fails, after a reboot is performed, if one of the files is shared and locked.

Error Description:

An undo operation fails after a reboot is performed if one of the files in the package is shared and locked. After the reboot, the package is in the ICU- state. The undo operation will not work.

APAR IY60954**Abstract:**

Software package installation, requiring a license, fails.

Error Description:

Software package installation, requiring a license, fails.

APAR IY61152**Abstract:**

Locked files not managed on NetWare targets.

Error Description:

Locked files are not managed on NetWare targets during software distributions. To make this fix effective, the `disconnect_timeout` variable has to be set in the package. When Software Distribution finds a locked file, it sends a message to the connections locking the file to warn that the connection will be closed, waits the timeout specified in `disconnect_timeout`, and then checks if the file is still locked. In this case, Software Distribution closes the connection.

APAR IY61199**Abstract:**

Software package blocks containing restart action generate two duplicated log entries.

Error Description:

When a software package block contains a restart action, it generates two duplicated entries in the `resettap.dat.log` file on the Tivoli server for each execute user program action.

APAR IY61460**Abstract:**

The import of a software package from an endpoint fails if the `Name#Region` syntax is used.

Error Description:

If you try to import a software package from an endpoint in an interconnected Tivoli region, using the `Name#Region` syntax, the import fails and the following message is displayed:

```
ds_error:0133
Error when parsing attribute Value
-> ds_error:0049
Syntax error
```

APAR IY61565**Abstract:**

Large data moving request from endpoint to managed node is interrupted.

Error Description:

When running a very large data moving activity to move files from an endpoint to a managed node, the final phase of the activity can exceed the timeout and be interrupted.

APAR IY61609**Abstract:**

Removal of empty directories on NetWare endpoints fails.

Error Description:

On NetWare endpoints, if you remove a software package that created empty directories, the removal completes but the empty directories are not removed.

APAR IY61637**Abstract:**

spd_eng traps while handling with nested software packages.

Error Description:

spd_eng traps while handling with nested software packages.

APAR IY61670**Abstract:**

Distributions published using the Web Interface stop when the completion indicator reaches 100%.

Error Description:

Using the **wwweb** command repeatedly causes the distributions to stop.

APAR IY61729**Abstract:**

Import of a software package having FOLLOW_LINKS=N and HARD_LINK=Y in REMOVE_LINK section, returns a warning message.

Error Description:

If you import a software package having these keywords in the REMOVE_LINK section:

```
remove_link
follow_links = n
hard_link = y
source_file = duda
destination = dudalink
end
```

the import action returns the following error:

```
DISSE0001I Operation successful.
DISSE0468W Warning near line 43: Unknown attribute
'translate' it 'remove_link'. Attempting to skip...
```

APAR IY61753**Abstract:**

If the endpoint fails to login after a reboot, software distributions fail on the endpoint.

Error Description:

The problem occurs when you install a software package that contains an executable program and a shutdown action. If, after the shutdown, the endpoint fails to login to the gateway, the software package executable program completes with errors.

APAR IY62012**Abstract:**

swdis_db2_migr_41-421.sql fails in the upgrade from Software Distribution 4.1 to Configuration Manager 4.2.1

Error Description:

When you upgrade from Software Distribution 4.1 to Configuration Manager 4.2.1, the `swdis_db2_migr_41-421.sql` migration script fails.

APAR IY62095**Abstract:**

A corequisite file is unavailable because the *service* directory has been deleted

Error Description:

When the *service* directory for an installed package is deleted, the `during_remove` action fails if it cannot find the corequisite files.

APAR IY62110**Abstract:**

Autopack cannot manage registry key longer than 255 characters.

Error Description:

Autopack cannot manage registry key longer than 255 characters.

APAR IY62180**Abstract:**

Native AIX package installation fails.

Error Description:

Native AIX package installation fails.

APAR IY62378**Abstract:**

Installation of MSI packages ignores the changes in the feature levels.

Error Description:

Installation of MSI packages ignores the changes of the feature level contained in the transform file (.mst).

APAR IY62418**Abstract:**

DWORD values are wrongly evaluated during a condition check using the Windows 2000 registry.

Error Description:

When you specify a variable that looks at a DWORD value in the Windows 2000 registry and use it for conditional check, the condition is always evaluated to false, even if the package has been created according to the instructions in the *Reference Manual for Software Distribution*.

APAR IY62538**Abstract:**

An import from an endpoint fails, and displays the error message FRWSL0024E.

Error Description:

Using Software Distribution, Version 4.2.1 GUI, the Software Distribution import operation from an endpoint fails if both build and overwrite options are selected. The following error message is displayed:


```
Import failed:
FRWSL0024E A failure was detected by the oserv daemon :
FRWOG0003E general failure
- The SoftwarePackage profile icon remained open (empty profile)
- when the .spb is ftp'd to MN Source Host and imported from
  the ManagedNode locally, the import succeeds as well as
  distributes successfully.
```

The spd_eng trace shows that communications with the endpoint were broken while the source host is trying to receive the file from the endpoint (Software Distribution *spde*.trc* file), as follows:

```
- get_file_invoke error msg - 'FRWTC00056/10/2004 2:25:06 PM (5) :
iom_end; failed with code 67' : communication failure '
```

APAR IY62557

Abstract:

AIX native installation fails to manage the -t option.

Error Description:

When you install a software package containing an AIX native update, if the path for backup or alternate save directory is specified, the installation fails.

APAR IY62830

Abstract:

Importing a software package definition file (.spd) into a software package block (.spb) does not update the timestamp.

Error Description:

When you import a software package definition file (.spd) into a software package block (.spb) using the overwrite option, the timestamp of the .spb file is not updated to the current time on UNIX and Windows platforms.

APAR IY62921

Abstract:

The Data Moving Service performs an incorrect space check on source host for zipped and compressed files.

Error Description:

The Data Moving Service performs an incorrect space check on source host for zipped and compressed files.

APAR IY62924

Abstract:

Installation of several AIX packages can cause endpoint failure when trace level is higher than 3.

Error Description:

Installation of several AIX packages can cause endpoint failure when trace level is higher than 3.

APAR IY62933

Abstract:

.spd files lose UNIX file permission information.

Error Description:

If you save a Software Distribution 4.1 .spd file with Configuration Manager 4.2.1 fix pack 1, the UNIX file permission information are lost.

APAR IY62981**Abstract:**

Delay in saving .spbs to network attached drives.

Error Description:

When you save a .spb to a network attached drive, a delay of up to 30 seconds can occur.

APAR IY61445**Abstract:**

The use of a comma (,) to specify multiple values of a variable does not work.

Error Description:

The use of a comma (,) to specify multiple values of a variable does not work.

APAR IY63151**Abstract:**

A NetWare attribute change on certain files results in an error (16=locked).

Error Description:

Using a NetWare client, open a file with the "OF_SHARE_COMPAT" flag set. When the file is distributed on a NetWare endpoint, the distribution fails.

APAR IY63340**Abstract:**

The delta option does not work when an installation is performed using the scheduler during a retry.

Error Description:

When an installation is performed using the scheduler and the delta option is also used, the *cm_execute_src* method on the source host ends with *s=11* in the odstat and an oserv general failure is also logged in the Software Distribution log file. This happens only when the retry is set in the job and when install is invoked by the retry (set in the scheduled job).

APAR IY63378**Abstract:**

Registry value of the DWORD type displayed in Software Package Editor is misleading.

Error Description:

Software Package Editor displays the registry value of the DWORD type in a misleading way.

APAR IY63714**Abstract:**

The slash symbol is changed into a backslash symbol when creating Windows services using the Software Package Editor.

Error Description:

If you create a Windows service using the Software Package Editor and save the software package as a software package definition file, then open the software package (.sp) file in Software Package Editor, the backslash (/) is changed to a slash (\).

APAR IY63861**Abstract:**

DataMovingRequest.1 profile cannot be moved between profile managers.

Error Description:

If you use the drag and drop functionality to move the DataMovingRequests.1 software package object from a profile manager to another one, an empty software package called DataMovingRequests.1 is created. This object is no longer valid and no data moving operation can be performed.

APAR IY63808**Abstract:**

A service with a very long display name causes the configuration manager to stop.

Error Description:

If the service name or display name for a service is too long, no data is returned because the available buffer is too small. Software Distribution wrongly calls the same API again, using the same buffer, causing the Configuration Manager to stop.

APAR IY64239**Abstract:**

Import of a .spb file from an endpoint fails.

Error Description:

Thread concurrency leads to random failure in the import of .spb files from endpoints.

APAR IY64369**Abstract:**

The Search for reference models option does not work

Error Description:

The search functionality does not work if the Table View of the reference model is selected.

APAR IY64478**Abstract:**

The SD_H_INST table is updated even when the historical database feature and CMSTATUS are disabled.

Error Description:

If the local endpoint catalog, epcat.cat contains IC-D- cm status, the SD_H_INST table is updated even when the historical database feature and CMSTATUS are disabled.

APAR IY64483

Abstract:

Commit actions are not run after user reboot.

Error Description:

Commit actions are not run after user reboot.

APAR IY64629**Abstract:**

Error messages returned are too long to be displayed.

Error Description:

Truncated error messages are displayed for MDist 2 distributions.

APAR IY64706**Abstract:**

The Software Package Editor cannot manage Windows registry keys named Default

Error Description:

Importing a software package containing Windows registry keys named Default, changes the registry key name.

APAR IY64746**Abstract:**

Software package remains in IPUBC state on endpoints after commit on reboot of a later software package.

Error Description:

If a software package is installed, then committed in user reboot, it waits in state IPUBC for the reboot. If a second package is then installed and committed with auto-reboot, the first package remains in IPUBC state and is not committed.

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

Table 7. APARs and internal defects included in this fix pack

Activity Planner, Version 4.2.1, 4.2.1-APM-FP02		
47381	50476	50664
50772	50933	
IY53169	IY56238	IY57917
IY57981	IY58077	IY58132
IY58339	IY58571	IY58751
IY59616	IY60024	IY60579
IY60932	IY61061	IY62024
IY62379	IY62934	IY63345
IY64443		

The following section describes each APAR in detail.

APAR IY53169

Abstract:

Activity Planner fails to start if it cannot build a plan because there are build dependencies that are corrupted.

Error Description:

Activity Planner fails to start if it cannot build a plan because there are build dependencies that are corrupted. The Activity Planner database (or its tables) have to be dropped and recreated.

APAR IY56238**Abstract:**

If an error occurs after the distribution has been submitted to MDist2, Activity Planner sometimes resubmits the activity.

Error Description:

If an error occurs after the distribution has been submitted to MDist2, the current action is not removed from the queue. The action will be rerun the next time the actions in the queue are run.

APAR IY57917**Abstract:**

Activity Planner trace files get overwritten.

Error Description:

When Activity Planner starts, it uses the trace file named `xxx0.trc`. If this file exists, or has reached its size limit, the trace file named `xxx1.trc` is overwritten.

APAR IY57981**Abstract:**

A null pointer exception occurs on Activity Planner.

Error Description:

A null pointer exception occurs on Activity Planner Handler traces when distributing to a number of targets that is greater than the value specified in the `APM.INI` file with the `pre_loading_tmf_objects_threshold` parameter.

APAR IY58077**Abstract:**

Database can run out of locks when running the Activity Planner cleanup and there are many plans to be deleted. Deadlocks can also occur.

Error Description:

When the scheduler starts the Activity Planner cleanup of the database, all of the activity plans that meet the criteria should be removed. During the delete actions, the transaction log grows, causing the database to run out of locks. Deadlocks can also occur.

APAR IY58132**Abstract:**

Spaces are removed from an Activity Planner plan (for example, in the variable values) after performing an export followed by an import operation.

Error Description:

Any user variable in the Activity Planner plans containing a value & (note the spaces) will have the spaces removed when performing an export followed by an import of the plan.

For example, the contents of xml when doing the export are:

```
<parameter>
<name>%fred</name>
<value>&quot;Streets&amp;Trips 2004&quot;</value>
</parameter>
```

Add the spaces into the plan using the Activity Planner editor, and resave the plan.

APAR IY58339**Abstract:**

Activity with a remove action will fail if NOTIFY_EXT_DIRECTLY is set to A and the package is not installed on the endpoint.

Error Description:

A plan for removing a software package that is not installed on the endpoint, ends successfully when you use the command **wremovsp** and set notify_ext_directly to a.

APAR IY58571**Abstract:**

The **wcntpln -f** command does not work after applying the fix pack TCM-4.2.1-FP01.

Error Description:

The **wcntpln -f** command does not work, even though the fix pack TCM-4.2.1-FP01 is installed.

This is the scenario that fails:

1. Submit a plan.
2. Submit another plan, as paused.
3. Run **wcntpln -f <paused_plan>**, where *paused_plan* is the name of the plan submitted in step 2.

The command changes the status of the activities and targets to **Cancelled** for the *<paused_plan>* as expected, but it also changes the status of some targets of the previously submitted plan (that have been started) to **Cancelled**.

APAR IY58751**Abstract:**

Activity Planner generates a no target list error.

Error Description:

This is caused by inconsistent information in the .XML file. When the plan is resumed after an import, the following errors occur:

```
04/05/11 18:06:42.904 CEST: Executer29 F : com.tivoli.apm.co
Got throwable from plugin: com.tivoli.apm.plugin.InvalidParmExc
No target list has been specified for operation Install
```

The following error (with the return code 3) is present in the apmlog0 file:
ERROR 1084291602973

APAR IY59616

Abstract:

The Activity Planner Notice Group is not created when upgrading from Activity Planner, version 4.2 to Activity Planner, version 4.2.1.

Error Description:

After upgrading Activity Planner, version 4.2 to Activity Planner, version 4.2.1, the Activity Planner Notice Group for version 4.2.1 is not created. No notices are posted when a plan is run.

A new script (apm/src/misc/add_notice_group_apm_421.sh) has been included that creates the Activity Planner Notice Group for version 4.2.1.

APAR IY60024

Abstract:

Unique targets must not be released when conditions are not met.

Error Description:

Unique targets (that is, the targets addressed by the condition **Activity by ST** and which do not belong to the conditioning activity) must not be allowed to start or run the conditioned activity when the condition is not met.

APAR IY60579

Abstract:

Activity Planner shows the gateway for the target endpoint as "-----".

Error Description:

In some situations where the default gateway policy is not used by the customer, Activity Planner is not able to recognize the gateway name, so for some endpoints, the gateway name is written as "-----".

APAR IY60932

Abstract:

The Activity Plan Monitor GUI running on a desktop with Configuration Manager, version 4.2.1 installed incorrectly uses the time that is set at the Managed Node to which it is connected instead of the local time.

Error Description:

When a plan is submitted using the Activity Plan Monitor - Endpoint Client, the submission is delayed by the difference between the time zone that is set on the Managed Node to which it is connected and the workstation time.

APAR IY61061

Abstract:

There is an error in PLANS_DB2_MVS_CUSTOM_SCHEMA.SQL. The V_PLAN_STATUS view is declared twice, and the first declaration is incorrect.

Error Description:

The problem is in the NOTIFY_DATE column. Only the second declaration of V_PLAN_STATUS contains a reference to that column.

Because the first declaration creates the view, the second declaration results in an error for the duplicated name and is ignored. Every time Activity Planner accesses the V_PLAN_STATUS view, the SQL0206N error is returned.

APAR IY62024

Abstract:

Activity Planner 4.2.1 incorrectly stores the relative deadline with the keyword Deadline instead of with the correct keyword RelativeDeadline.

Error Description:

An Activity Plan with RelativeDeadline specified was not preserved in the Tivoli Management Framework, version 4.1.1 and Tivoli Configuration Manager, version 4.2.1 environment when performing an upgrade. Any attempt to set the Deadline in Tivoli Configuration Manager, version 4.2.1 Activity Planner after the migration generates the following error:

"You cannot specify both relative and absolute dealines.
Only one value is allowed"

APAR IY62379

Abstract:

An Activity Plan cannot be saved if one of the activities is a task and the CANCEL_AT_CUTOFF option is set.

Error Description:

An error is generated when trying to save an activity plan if one of the activities is a task and the CANCEL_AT_CUTOFF option is set. The same problem occurs when attempting to submit a plan from the command line, using the command **wsubpln -f <xml_file>**.

APAR IY62934

Abstract:

Variables with a value consisting of blank characters are allowed by Activity Planner Editor.

Error Description:

You can add to a plan, using Activity Planner Editor, a variable with a value consisting of blank characters, and then save the plan as an .XML file. When the plan is re-imported from the .XML file, the following message is displayed:

AMN0053E The following error occurred during an attempt
to import plan: <value> is empty

The same message is also returned by Activity Planner Editor when you import the .XML file using the GUI.

APAR IY63345

Abstract:

Execution windows do not work when spread over the weekend.

Error Description:

When the execution window spreads over the weekend (Saturday through to Monday morning) and when a plan is submitted during the weekend, the closing window event is not generated for the Monday morning and the plan does not stop at the closing time.

APAR IY64443

Abstract:

An activity plan fails with an out-of-memory error when the credentials for the Tivoli administrator are too long.

Error Description:

With fix pack TCM 4.2.1 FP01, if the credentials for the Tivoli administrator are too long, the activity plan fails with an out-of-memory error.

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

Table 8. APARs and internal defects included in this fix pack

Change Manager, Version 4.2.1 4.2.1-CCM-FP02		
49843	52058	52415
IY60055	IY64369	

APAR IY60055**Abstract:**

Cannot delete reference models if you use DB2 on MVS

Error Description:

Cannot delete reference models if you use DB2 on MVS

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 (the correct subscribers of that reference model are displayed), but it is not highlighted, and an incorrect reference model is highlighted.

When the fix pack has been installed, the correct reference model is highlighted.

Tivoli Resource Manager: The Resource Manager, Version 4.2.1 (4.2.1-TRM-FP02) and Resource Manager Gateway, Version 4.2.1 (4.2.1-TRMGW-FP02) components do not contain any fixed APARs.

Web Interface: The following APARs and internal defects for the Web Interface were fixed.

Table 9. Web Interface APARs and internal defects included in this fix pack

Web Interface, Version 4.2.1 4.2.1-WEB-FP02			
52718	53097		
IY60430	IY60532	IY60789	IY61378

APAR IY60430**Abstract:**

Japanese texts are displayed in English in operator console window after installing WEB Interface L10N CM-4.2.1-FP01.

Error Description:

Japanese texts are displayed in English in operator console window after installing WEB Interface L10N CM-4.2.1-FP01.

APAR IY60532

Abstract:

Restart action does not work in the Web Interface.

Error Description:

When a software package, including the operation system restart, action is downloaded with the Web Interface, an error occurs after the operating system restarts and the next action is not executed.

APAR IY60789

Abstract:

The Web User Interface does not download codesets.

Error Description:

If you try to install a software package using the Web User Interface, the installation might fail

APAR IY61378

Abstract:

When you publish a software package, the Web browser does not work if you specify a path.

Error Description:

When you publish a software package, the Web browser does not work if you specify a path in the public name as follows:

```
wweb -publish -p /packs/ac -v 1.0 -w da-server -i all  
-u mmouse SoftwarePackage:test^30
```

Directory Query: The Directory Query Facility, Version 4.2.1 (4.2.1-DQY-FP02) component does not currently contain any fixed APARs.

Pristine Manager and Pristine Manager Gateway: The following APARs and internal defects for the Pristine Manager, Version 4.2.1 (4.2.1-PMSRV-FP02) and the Pristine Manager Gateway, Version 4.2.1, (4.2.1-PMGW-FP02) components were fixed.

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

Pristine Manager, Version 4.2.1 4.2.1-PMSRV-FP02		
IY58575		

APAR IY58575

Abstract:

Customers cannot define the locations for target elements.

Error Description:

Customers cannot define the locations for target elements in the file tivdeployimage.xml. A new environment variable (PRISTINE_TIVOLIJOBDIR) has been added. Using this variable, you can copy the tivdeployimage.xml file to any user-defined directory. You can set platform-dependent variables, and also define a location for each target element in a pristine installation.

Fixes contained in previous fix packs and interim fixes

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

Table 11. Inventory APARs and defects included in this fix pack from 4.2.1-INV-FP01.

Inventory, Version 4.2.1 4.2.1-INV-FP01				
150162	164105	167222	168284	168328
168423	168509	168605	168722	169342
169673	170146	170640	171345	171848
172266	IY47432	IY47767	IY49940	IY50127
IY50277	IY50315	IY50728	IY51373	IY50392
IY51468	IY51469	IY51473	IY52329	IY52338
IY52431	IY52452	IY52485	IY52684	IY52718
IY52762	IY52916	IY53001	IY53426	IY53445
IY54129	IY54266	IY54303	IY54646	IY54960
IY55118	IY55123	IY55129	IY55178	IY55277
IY56521	IY56612	IY56944		

Table 12. Software Distribution APARs and defects included in this fix pack from 4.2.1-SWDSRV-F0P1, 4.2.1-SWDGW-F0P1, 4.2.1-SWDJPS-F0P1, 4.2.1-SWDEP-F0P1, 4.2.1-SWDSRV-FP01, 4.2.1-SWDGW-FP01, 4.2.1-SWDJPS-FP01 and 4.2.1-SWDEP-FP01.

Software Distribution, Version 4.2.1 4.2.1-SWDSRV-F0P1				
46055	47200	47516	47517	47538
47540	47621	48021	48054	48209
48847	IY47824	IY49466	IY49596	IY49820
IY50771	IY50855	IY50982	IY50987	IY51149
IY51399	IY52239	IY52410	IY52566	
Software Distribution Gateway, Version 4.2.1 4.2.1-SWDGW-F0P1				
47509	47513	47526	47554	47557
47620	47817	IY49798	IY50729	IY50849
IY50855	IY51082	IY51842	IY51908	IY52374
IY52865				
Software Package Editor, Version 4.2.1 4.2.1-SWDJPS-F0P1				
49193				
Software Package Editor for Endpoints, Version 4.2.1 4.2.1-SWDEP-F0P1				
47509	47554	47557	47895	
IY49798	IY50729	IY50849	IY50980	IY51908
IY52239	IY52374	IY52439		
Software Distribution, Version 4.2.1, 4.2.1-SWDSRV-FP01				
48947	48948	49089	49234	49650
50148	50153	50227	50495	50526
IY53265	IY53499	IY53570	IY53595	IY53776
IY53959	IY54124	IY54254	IY54388	IY54588
IY54597	IY55058	IY55222	IY55298	IY55338
IY55516	IY55560	IY55563	IY55830	IY56038

Table 12. Software Distribution APARs and defects included in this fix pack from 4.2.1-SWDSRV-F0P1, 4.2.1-SWDGW-F0P1, 4.2.1-SWDJPS-F0P1, 4.2.1-SWDEP-F0P1, 4.2.1-SWDSRV-FP01, 4.2.1-SWDGW-FP01, 4.2.1-SWDJPS-FP01 and 4.2.1-SWDEP-FP01. (continued)

IY56378	IY56524	IY56613		
Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-FP01				
49235	49380	49267	49319	49903
49997	49998	50104	50210	50227
IY52801	IY53499	IY53522	IY53571	IY53916
IY53959	IY54238	IY54261	IY54450	IY55058
IY55275	IY55766	IY55855	IY56568	IY56613
IY57202	IY57658			
Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-FP01				
49235	49380	50467	IY53959	IY53990
Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-FP01				
48998	49235	49267	49319	49380
49998	50104	50210	50227	50389
IY52801	IY53499	IY53522	IY53571	IY53916
IY53959	IY54238	IY54261	IY54450	IY55058
IY55275	IY55298	IY55402	IY55766	IY55855
IY56568	IY56613	IY57202	IY57658	

Table 13. Activity Planner APARs and internal defects included in this fix pack from 4.2.1-APM-F0P1 and 4.2.1-APM-FP01.

Activity Planner, Version 4.2.1 4.2.1-APM-F0P1		
47032	47157	48821
IY50560	IY52378	IY52432
IY52633	IY52664	IY52720
IY53020	IY53211	IY53466
IY53553	IY53706	
Activity Planner, Version 4.2.1, 4.2.1-APM-FP01		
46913	47493	48950
49292	49363	49381
49488	49600	49635
49637	49786	49803
49804	50094	50110
50113	50208	50410
50439	50469	IY53240
IY54387	IY54615	IY54825
IY54905	IY55334	IY55335
IY55375	IY55759	IY55917
IY56020	IY56406	IY56589

Table 13. Activity Planner APARs and internal defects included in this fix pack from 4.2.1-APM-F0P1 and 4.2.1-APM-FP01. (continued)

Activity Planner, Version 4.2.1 4.2.1-APM-F0P1		
IY56955	IY57122	IY57163
IY57166		

Table 14. Change Manager internal defects included in this fix pack from 4.2.1-CCM-F0P1 and 4.2.1-CCM-FP01.

Change Manager, Version 4.2.1 4.2.1-CCM-F0P1		
47196		
Change Manager, Version 4.2.1 4.2.1-CCM-FP01		
49754	49765	49776
49790	49865	50410
50494	IY55491	

Table 15. Web Interface APARs and internal defects included in this fix pack from 4.2.1-WEB-F0P1 and 4.2.1-WEB-FP01.

Web Interface, Version 4.2.1 4.2.1-WEB-F0P1		
47625	47945	
Web Interface, Version 4.2.1 4.2.1-WEB-FP01		
48843	49341	49833
49861	49865	IY54275
IY54368		

Table 16. Directory Query APARs and internal defects included in 4.2.1-DQY-FP01.

Directory Query, Version 4.2.1 4.2.1-DQY-FP01		
IY52340		

Table 17. Pristine Manager APARs included in this fix pack from 4.2.1-PMGW-F0P1 and 4.2.1-PMSRV-FP01.

Pristine Manager , Version 4.2.1 4.2.1-PMGW-F0P1		
47523		
Pristine Manager, Version 4.2.1, 4.2.1-PMSRV-FP01		
IY55649		

Installation

This section describes how to install fix pack 2 to upgrade the various components of IBM Tivoli Configuration Manager, Version 4.2.1. The method of installation depends on the component you are upgrading. Once you have installed the fix pack, you cannot uninstall it automatically. Ensure that you perform a complete backup of your system before installing this fix pack.

This section includes the following topics:

- “Hardware and software requirements” on page 32
- “Traditional fix pack installation methods” on page 32

- “Software package block (SPB) fix pack installation for GUI components” on page 35
- “Updating the inventory schema” on page 39

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

System requirements

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

Traditional fix pack installation methods

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

- “Installing fix packs using ISMP.”
The InstallShield MultiPlatform (ISMP) program, which installs the appropriate IBM Tivoli Configuration Manager fix pack for the entire Tivoli management region (Tivoli region) using activity plans.
- “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 34
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 35
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.

The ISMP tool provides a depoting mechanism with which you can plan the upgrade of the entire Tivoli region by creating activity plans that can be scheduled at a later date.

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. Before running each generated activity plan, 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 using 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 fix pack directory, `$fixpack/xml`. Click **Next**.
4. The actions necessary to upgrade your environment are being generated. When the process completes, a panel displays the fix pack 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 wish 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 4.2.1 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 18. 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 4.2.1 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 when 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 18. IND files for components

IND file	Component name	Tag
421INVFP	Inventory, Version 4.2.1	4.2.1-INV-FP02
421LCFFP	Inventory Gateway, Version 4.2.1	4.2.1-INVGW-FP02
APMFP2	Activity Planner, Version 4.2.1	4.2.1-APM-FP02
CCMFP2	Change Manager, Version 4.2.1	4.2.1-CCM-FP02
DQYFP2	Enterprise Directory Query Facility, Version 4.2.1	4.2.1-DQY-FP02
TRMFP2	Resource Manager, Version 4.2.1	4.2.1-TRMSRV-FP02
TRMGWFP2	Resource Manager Gateway, Version 4.2.1	4.2.1-TRMGW-FP02

Table 18. IND files for components (continued)

IND file	Component name	Tag
SWDFP2	Software Distribution, Version 4.2.1	4.2.1-SWDSRV-FP02
SWDGWFP2	Software Distribution Gateway, Version 4.2.1	4.2.1-SWDGW-FP02
SDJPPFP2	Software Package Editor, Version 4.2.1	4.2.1-SWDJPS-FP02
WEBUIFP2	Web Interface, Version 4.2.1	4.2.1-WEB-FP02
PMFP2	Pristine Manager 4.2.1	4.2.1-PMSRV-FP02
PMGWFP2	Pristine Manager Gateway 4.2.1	4.2.1-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 4 on page 5.

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 more products on more 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 37
- “Software Distribution server command” on page 38
- “Software Distribution disconnected command” on page 38

IBM Tivoli Configuration Manager, Version 4.2.1 GA package is a prerequisite of the SPB fix packs.

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

The default variables for each component defined in the SPB fix packs are listed in the following table.

Table 19. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_APM_GUI_Fix.v4.2.1.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.v4.2.1.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.v4.2.1.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.
Tivoli_SWDEP_NW_Fix.v4.2.1.FP02		
target_dir	\$(product_dir)\SD42CLI	
Tivoli_SWDEP_OS2_Fix.v4.2.1.FP02		
package_type	ALL	
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_UNIX_Fix.v4.2.1.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.
Tivoli_SWDEP_NTAS400_Fix.v4.2.1.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.
Tivoli_SWDEP_400PS_Fix.v4.2.1.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.		
Tivoli_WebUI_Fix.v4.2.1.FP02		
package_type	ALL	
target_dir	\$(product_dir)\speditor	
Tivoli_WebUI_L10N_Fix.v4.2.1.FP02		

Table 19. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
WebSrvHomeDir	/opt/IBMHTTPD	The path to the home directory for the Web server.
AppServerHome	/opt/WebSphere/AppServer	The path where the Tivoli Web Server is installed.
Tivoli_SWD_WebUI_plugin_Fix.v4.2.1.FP02		
LCF_LIBDIR	/opt/Tivoli/lcf/lib/aix4-r1	The LCF_LIBDIR of the endpoint.
WebSrvHomeDir	/opt/IBMHTTPD	The path to the home directory for the Web server.
Tivoli_INV_WebUI_plugin_Fix.v4.2.1.FP02		
LCFROOT	/opt/Tivoli/lcf	The LCFROOT of the endpoint.
WebSrvHomeDir	/opt/IBMHTTPD	The path to the home directory for the Web server.
Tivoli_MD2GUI_Fix.v4.1.1.FP01		
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.

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 4.2.1 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 4.2.1 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 4.2.1 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 XML descriptor file for the fix pack located in the package subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.1 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 20.
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 20 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 4.2.1 GA SPBs are a prerequisite of the fix pack SPBs.

Table 20. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_APM_GUI_Fix.v4.2.1.FP02.spb	Tivoli_APM_GUI_Fix.v4.2.1.FP02
Tivoli_CCM_GUI_Fix.v4.2.1.FP02.spb	Tivoli_CCM_GUI_Fix.v4.2.1.FP02
Tivoli_SWDEP_\$(interp)_Fix.v4.2.1.FP02.spb	Tivoli_SWDEP_\$(interp)_Fix.v4.2.1.FP02
Tivoli_SWDEP_NTAS400_Fix.v4.2.1.FP02.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.1.FP02
Tivoli_SWDEP_400PS_Fix.v4.2.1.FP02.spb	Tivoli_SWDEP_400PS_Fix.v4.2.1.FP02
Tivoli_WebUI_4.2.1.spb	Tivoli_WebUI.4.2.1
Tivoli_WebUI_Fix.v4.2.1.FP02.spb	Tivoli_WebUI_Fix.v4.2.1.FP02
Tivoli_WebUI_L10N_Fix.v4.2.1.FP02.spb	Tivoli_WebUI_L10N_Fix.v4.2.1.FP02
Tivoli_WebUI_L10N.4.2.1.spb	Tivoli_WebUI_L10N.4.2.1
Tivoli_SWD_WebUI_plugin_4.2.1.spb	Tivoli_SWD_WebUI_plugin_4.2.1
Tivoli_SWD_WebUI_plugin_Fix.v4.2.1.FP02.spb	Tivoli_SWD_WebUI_plugin_Fix.v4.2.1.FP02
Tivoli_INV_WebUI_plugin_Fix.v4.2.1.FP02.spb	Tivoli_INV_WebUI_plugin_Fix.v4.2.1.FP02
Tivoli_MD2GUI_Fix.v4.1.1.FP01.spb	Tivoli_MD2GUI_Fix.v4.1.1.FP01

Note: If you are installing the WebUI SPB components via the Software Distribution command line, you need to install the following prerequisite packages first:

- Tivoli_WebUI_4.2.1.spb
- Tivoli_WebUI_L10N.4.2.1.spb
- Tivoli_SWD_WebUI_plugin_4.2.1.spb

These are empty packages used to update the local catalog in accordance with the adopted SPB naming convention.

If you are installing the WebUI SPB components via SPB_patch_installer, the prerequisite packages are automatically installed.

Updating the inventory signatures

The latest software signatures are packaged in fix pack 4.2.1-INV-FP02. After you install the fix pack, the signatures are located in the \$BINDIR/./generic/inv/SIGNATURE directory in the SWSIGS.INI file. See the documentation for the winvsig command for more information on how to install these signatures.

Updating the inventory schema

When you install a new fix pack, you also need to update the inventory schema.

The fix pack installation places a file named inv_<db>_schema.sql on the managed nodes where the patch is installed, in the following directory:

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

where <db> is the shortname for the database. For this script, there is also a history equivalent script for updating the history tables, h_inv_<db>_schema.sql.

You can use all of these scripts to either update or reinstall your database schema.

Note: Installing the full schema scripts will remove all existing data.

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 install the schema scripts.

DB2® only: Create the temporary tablespace "usertemp1" by running the inv_db2_admin_patch.sql script as a DB2 administrator. If you are installing a new DB2 database and using the inv_db2_admin.sql script, you do not need to run the patch script as it is now contained in the latest version of the admin script.

DB2 and Informix® only: Run the inv_<db>_FP02.sql script as a DB2 inventory user.

Notes:

1. **All Database Scripts:** Error or information messages might be displayed when running the database scripts. Each database has unique behavior, so some messages can be expected.
2. You should run a "Replace with Current® Results" scan when scanning a new endpoint and after installing a new schema.

Using SQL scripts to upgrade the schema

This section contains additional information about SQL scripts you need to run.

APAR IY52718: To install the fix for APAR IY52718, upgrade the Tivoli Configuration Management, Version 4.2.1 DB2 schema on MvS by running the `inv/SCRIPTS/RDBMS/inv_db2_mvs_421_fp01.sql` script.

APAR IY52431: Run the `h_inv_<db>_FP01.sql` and `inv_<db>_FP01.sql` on an existing Tivoli Configuration Manager, Version 4.2.1 configuration repository, where *db* corresponds to either `db2`, `db2_mvs` or `infx`.

Note: These patch scripts affect the `PTF_INFO` table, which is populated by a scan of OS/400 systems. Use the following guidelines:

- If you do not have any OS/400® endpoints, you do *not* need to upgrade this table.
- If you are using the Inventory, Version 4.2 component and have run the fresh install scripts modified by the 4.2-INV-FP02 fix pack, you do *not* need to run these new scripts. The `PTF_INFO` table is created with the correct `ACTION_PENDING` column type and size in the 4.2-INV-FP02 fresh install script and in the `inv_db2_mvs_custom_schema.sql` and `h_inv_db2_mvs_custom_schema.sql` scripts.
- If you are using the Inventory, Version 4.2.1 component, have migrated from Version 4.2, and had installed the Version 4.2 schema using the fresh install scripts before the 4.2-INV-FP02 fix pack, you *must* run these new scripts

APAR IY53445: Run the `h_inv_ora_421_fp01.sql` script on a Tivoli Configuration Manager, Version 4.2.1 configuration repository only if the schema was upgraded from an Tivoli Inventory, Version 4.0 configuration repository using the `h_inv_ora_upgrade_40_421.sql` script.

Upgrading plug-ins

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

Activity Planner

When you have installed 4.2.1-APM-FP02, Activity Planner scripts are in the `$BINDIR/TME/APM/SCRIPTS` directory. You need the `APM_Admin` Tivoli region authorization role to run these scripts.

1. Run the `upgr_tl_plugin.sh` script.
2. If you have also installed 4.2.1-SWDSRV-FP02, run the `upgr_swd_plugin.sh` script.

Change Manager

If you have installed both 4.2.1-CCM-FP02 and 4.2.1-SWDSRV-FP02, run the `upgr_swd_plugin.sh` script. This script is in the `$BINDIR/TME/CCM/SCRIPTS` directory. You need the `CCM_Admin` Tivoli region authorization role to run it.

Documentation notes

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

New information contained in this fix pack

This section contains new information for the following manuals of the IBM Tivoli Configuration Manager, Version 4.2.1 library.

User's Guide for Software Distribution

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

- **APAR IY52831**

In Chapter 9, Preparing a Software Package Distribution, section Executing Change Management Operations, sub-section Verify a Software Package, add the following paragraph as the final paragraph of the section:

The verify operation checks whether files contained in the package are also present on the target system. The operation is successful if the date of the file on the target is equal to or greater than the date of the same file in the package. If the date of the file is older the date of the same file in the package, the operation fails. The verify operation does not check whether a file has been changed since it was installed. To perform this check, run a repair operation.

Reference Manual for Software Distribution

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

- **APAR IY42647**

In Chapter 3, section Using Commands, add the following MDist 2 token to the commands listed below:

- fail_unavail

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.

This token is to be added to the MDist 2 options for the following commands:

- waccptsp
- wcommtsp
- winstsp
- wldsp
- wremovsp
- wsetsp
- wspmvdta
- wswdmgr
- wsyncsp
- wuldsp
- wundosp
- wversp

- **APAR IY52831**

In Chapter 2, Performing Change Management Operations, section Types of Change Management Operations, sub-section Verify Operation, add the following second paragraph before the note:

The verify operation checks whether files contained in the package are also present on the target system. The operation is successful if the date of the file on the target is equal to or greater than the date of the same file in the package. If the date of the file is older the date of the same file in the package, the operation fails. The verify operation does not check whether a file has been changed since it was installed. To perform this check, run a repair operation.

- **APAR IY61753**

In Chapter 3 Using Commands, add the following key to the **wswdcfg** command:

stop_on_prog_hang

Modifies the behavior of the Software Distribution engine in case of user programs running when communication with the gateway is interrupted for any reason. The default behavior causes the distribution to end with a warning. If you set this key to *n*, the user program is completed and the interrupted distribution can restart from the last valid checkpoint when communication with the gateway is restored. If the user program hangs, though, the distribution hangs until its expiration date is reached. Supported values are *y* and *n*. The default value is *y*.

- **APAR IY62154**

In Chapter 3, description of the **wspmvdata** command add the following paragraph after the list in the Description section:

In the data moving architecture, data are moved between source hosts and endpoints and between one endpoint and multiple endpoints. A source host is a Tivoli managed node, functioning as a gateway or a repeater, where Software Distribution is installed. The source host corresponds to the origin system when send operations are performed, with the exception of send operations from one endpoint to multiple endpoints. During a retrieve operation, on the other hand, the source host is the destination system.

Replace the description of the `spre:src_prescript`, `spost:src_postscript`, `tpre:targ_prescript`, `tpost:targ_postscript` options in the Options section, with the following descriptions:

- `spre:src_prescript`:
Specifies a script to run on the origin system of the data file, before the data is transmitted. When sending data, the origin system must be a source host, that is a Tivoli managed node, functioning as a gateway or a repeater, where Software Distribution is installed, or an endpoint, when data is sent from one endpoint to one or more endpoints. When retrieving data, the origin list can include multiple Tivoli endpoints, files that store a list of endpoints, profile managers, or a combination of these. Where the `-s` option specifies a list of endpoints, the script runs on each endpoint.
- `spost:src_postscript`:
Specifies a script to run on the origin system of the data file, before the data is transmitted. When sending data, the origin system must be a source host, that is a Tivoli managed node, functioning as a gateway or a repeater, where Software Distribution is installed, or an endpoint, when data is sent from one endpoint to one or more endpoints. When retrieving data, the origin list can include multiple Tivoli endpoints, files that store a list of endpoints, profile managers, or a combination of these. Where the `-s` option specifies a list of endpoints, the script runs on each endpoint.
- `tpre:targ_prescript`:
Specifies a script to run on the destination system, before the data is transmitted. When retrieving data, the destination system must be a source host, that is a Tivoli managed node, functioning as a gateway or a repeater, where Software Distribution is installed, which afterwards redirects the data to the destination systems. When sending or deleting data, the destination list can include multiple Tivoli endpoints, files that store a list of endpoints, profile managers, or a combination of these. Where the `-t` option specifies a list of endpoints, the script runs on each endpoint.
- `tpost:targ_postscript`:
Specifies a script to run on the destination system, before the data is transmitted. When retrieving data, the destination system must be a source host, that is a Tivoli managed node, functioning as a gateway or a repeater, where Software Distribution is installed, which afterwards redirects the data

to the destination systems. During retrieve operations, the post-script on the origin system (an endpoint) runs before the data is sent to the destination system. When sending or deleting data, the destination list can include multiple Tivoli endpoints, files that store a list of endpoints, profile managers, or a combination of these. Where the -t option specifies a list of endpoints, the script runs on each endpoint.

In the Scripts for Pre- and Post-processing section, replace the first bulleted list with the following two lists:

- The following list shows the sequence of scripts for send operations:
 1. Origin pre-processing script on the origin system.
 2. Destination pre-processing script on each endpoint.
 3. Destination post-processing script on each endpoint.
 4. Origin post-processing script on the origin system.
- The following list shows the sequence of scripts for retrieve operations:
 1. Destination pre-processing script on each endpoint.
 2. Origin pre-processing script on the origin system.
 3. Destination post-processing script on each endpoint.
 4. Origin post-processing script on the origin system.

In the Scripts for Pre- and Post-processing section, replace the descriptions for parameters 5 and 6 with the following descriptions:

- Parameter 5 Endpoint Label
Unique endpoint identifier. This parameter is only available for the post-processing script on the source host, that is a Tivoli managed node, functioning as a gateway or a repeater, where Software Distribution is installed.
- Parameter 6 Endpoint Result
Result of the operation on the endpoint. Possible results are 0 (success) and 1 (failure). This parameter is only available for the post-processing script on the source host, that is a Tivoli managed node, functioning as a gateway or a repeater, where Software Distribution is installed.

In the Scripts for Pre- and Post-processing section, replace the explanation for the example with the following explanation:

The destination system for this command is a source host and the source list includes two endpoints. The purpose of the merge.sh script is to create a single file on the source host system by merging the files that have been retrieved from the endpoints. The merge.sh script is performed as a post-processing script on the source host after the files have been retrieved from the specified endpoints.

- **APAR IY62398**

Add the following note to each explanation of the **from_fileserver** option:

Note: This option is not supported for Novell NetWare endpoints.

- **Defect 51714:**

In chapter 3, Using Commands, section **wspmvdata**, add the following section after the Scripts for Pre- and Post-processing section:

Sending Multiple Files: When you need to send several different files with similar names to different endpoints and each endpoint must receive only a specific file, you can use the \$(ep_label) variable in the source file name. The \$(ep_label) variable replaces the label of the endpoint.

The \$(ep_label) variable is then resolved on each endpoint and the file named with the endpoint label is installed on the corresponding endpoint.

When you perform a send operation using this variable, an internal software package is created in the *product_dir* on the source host, that is a Tivoli managed node, functioning as a gateway or a repeater, where Software Distribution is installed. This software package contains all the files to be sent to the endpoints and a condition for each file which specifies on which endpoint each file must be installed. The software package is then sent to the target endpoints where the variable is resolved and the files installed.

You can specify the maximum size for the software package by setting the **dms_send_max_spb_size** key with the **wswdcfg** command. For more information on this command, refer to *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution*. The default value for this key is 10,000 kilobytes. You can set this value to any integer equal to or lower than two gigabytes, which is the maximum size for a software package. The value defined on the Tivoli server is applied to the entire region, irrespective of the values defined on the source hosts, if any. Note that an amount of space at least equal to the value you specify must be available in the *product_dir* on the source host for the package to be created.

To calculate the precise value for the **dms_send_max_spb_size** key, you need to consider the total size of the files to be sent plus 2 kilobytes for each endpoint.

If you are working with interconnected regions, you must perform the following operations when sending multiple files:

- On the source host append the region name preceded by a pound (#) sign to the endpoint name of the files to be sent to endpoints outside the Tivoli region where the source host is located.
- From the command line, append the region name preceded by a pound (#) sign to the target endpoint name when specifying the **-t** option. This procedure applies only to endpoints with duplicate labels.

This behavior allows you to manage endpoints with duplicate labels within interconnected regions.

The following command sends files *data.ep1#sales-region.txt* to endpoint *ep1#sales-region*, file *data.ep1#resources-region.txt* to endpoint *ep1#resources-region*, and file *data.lab132782-ep.txt* to endpoint *lab132782-ep*, registered to the same region where the source host is located.

```
wspmvdata -s @yoursourcehost -t @ep1#sales-region, @ep1#resources-region,
@lab132782-ep -P sp:c:\source\ -P tp:c:\target data.${ep_label}).txt
```

When specifying the distribution list the pound (#) sign and region name must be specified only when the endpoint label is duplicate between one or more endpoints. Note that files *data.ep1#sales-region.txt*, *data.ep1#resources-region.txt*, and file *data.lab132782-ep.txt* must be present on the source host, otherwise the operation is not performed because the **-F** option has not been specified.

To determine the region to which the specified endpoint belongs, type the following two commands on the Tivoli server:

```
eid=`wlookup -r Endpoint endpoint_name | awk -F'.' '{print $1}'`
ep_region=`wlsconn | grep $eid | awk '{print $2}'`
where
```

endpoint_name

is the name of the endpoint whose region name you are trying to determine.

The results of the commands are returned to standard output. If the output returned is empty, the endpoint belongs to the region where the command was

launched. If you have a large number of endpoints, you can insert this command in a script file. On Windows systems, these commands must be run in a bash shell. For more information on the **wlookup** and **wlscnn** commands, refer to *Tivoli Management Framework: Reference Manual*.

In the DataMovingRequests.1.log file, the information concerning the distributions to interconnected regions is logged according to the following criteria:

- The names of the origin and destination files are specified with the \$(ep_label) variable.
- The name of the endpoint which received the distribution is logged before the **Distribution ID:** keyword. Use this value to determine which endpoint received the distribution.
- The region name preceded by a pound (#) sign is appended to the names of the endpoints outside the Tivoli region where the source host is located.

In chapter 3, Using Commands, section **wswdcfg**, add the following key after the continue_on_invalid_targets key:

dms_send_max_spb_size

Specifies the maximum size for a software package to be created and sent to multiple endpoints using data moving. For more information on this data moving feature, see Sending Multiple Files. The default value for this key is 10,000 kilobytes. You can set this value to any integer equal to or lower than two gigabytes, which is the maximum size for a software package. Note that an amount of space at least equal to the value you specify must be available in the *product_dir* on the source host for the package to be created.

- **Defect 51869:**

In chapter 2, Editing the Software Package Definition File, sub-section Attributes in Windows Registry Object Stanzas, table 14, SPD file attributes for Windows registry objects, add the following note to the explanation of the **add** attribute: To override this setting, add the `__ALWAYS_ADD_WINREG_KEYS__` variable to the in swdis.var file and set it to YES or NO. If you set `__ALWAYS_ADD_WINREG_KEYS__` to YES, parent registry keys are always created, irrespective of the setting specified for the **add** attribute.

User's Guide for Deployment Services

The following new information applies to the *IBM Tivoli Configuration Manager: User's Guide for Deployment Services*.

- **APAR IY62379**

In Chapter 2, section "Scheduling Plans to execute within a time interval", add the following text in step 5 after the note:

If the plan contains activities which cannot be canceled, that is Tivoli Framework tasks or Software Distribution operations addressed to devices or users, a warning message is displayed. If you choose to submit the plan, in case the Complete not after time expires, all activities are canceled with the exception of Tivoli Framework tasks and Software Distribution operations addressed to devices or users.

In Chapter 3, section "Activity Plan Definition file", table 2, add the following text to the description of the compl_not_after subelement:

If the plan contains activities which cannot be canceled, that is Tivoli Framework tasks or Software Distribution operations addressed to devices or users, a warning message is displayed. If you choose to submit the plan, in case the

compl_not_after time expires, all activities are canceled with the exception of Tivoli Framework tasks and Software Distribution operations addressed to devices or users.

Also, replace the description of the cancel_at_cutoff subelement with the following text:

If set to n, the time specified by the compl_not_after attribute is ignored for those activities already in execution. If set to y, activities in execution when the compl_not_after time is reached are canceled. If the plan contains activities which cannot be canceled, that is Tivoli Framework tasks or Software Distribution operations addressed to devices or users, a warning message is displayed. If you choose to submit the plan, in case the compl_not_after time expires, all activities are canceled with the exception of Tivoli Framework tasks and Software Distribution operations addressed to devices or users.

- **APAR IY65042**

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

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

Messages and Codes

The following new information applies to the *IBM Tivoli Configuration Manager: Messages and Codes*.

APAR IY62379

In Chapter 8, section "DIS SE Messages", add the following messages after message DISSE0602E:

DISSE0791W:

Delete not completed. File or path non-existent:
'path_name'.

Explanation: The file to be deleted is not found.

Message Variable:
path_name

The name of the path.

System Action: The submitted operation is not performed.

Operator Response: Verify that the name of the file or the path name are correct.

DISSE0794E:

The maximum size defined for the software package is not enough for building all files in path_name into the software package. The size required is at least: package_size. To modify this setting, use the dms_send_max_spb_size option with the wswdcfg command.

Explanation: The software package you are trying to create and send cannot be built because there is either not enough space in the product_dir on the source host or the maximum size defined for the software package has been exceeded.

System Action: The operation is not performed.

Operator Response: Check that the space available in the product_dir on the source host is sufficient for creating the software package and verify the value defined for the maximum size of the software package. Add more space to the product_dir on the source host or increase the maximum size of the software package using the dms_send_max_spb_size option with the wswdcfg command. For more information on this option, refer to *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution*. Note that two gigabytes is the maximum size for a software package.

Planning and Installation

The following new information applies to the *IBM Tivoli Configuration Manager: Messages and Codes* for this fix pack.

APAR IY54441

- In Chapter 5, create a new section after the Components Installed section, named Component Prerequisites, and include the following text:

When using this installation, the following component prerequisites must be installed before starting the installation.

Table 21. Server Component Prerequisites

Component	Software to be installed as prerequisite
Tivoli Management Framework	None
Web Interface	Tivoli Management Framework, Version 4.1, or later
Activity Planner	<ul style="list-style-type: none">• Tivoli Management Framework, Version 4.1, or later• Java Client Framework for Tivoli, Version 4.1• Java 1.3.0 for Tivoli• Java RDBMS Interface Module, Version 4.1• One of the supported databases (DB2, Informix, Microsoft SQL Server, Oracle, or Sybase)
Change Manager	<ul style="list-style-type: none">• Tivoli Management Framework, Version 4.1, or later• Java Client Framework for Tivoli, Version 4.1• Java 1.3.0 for Tivoli• Java RDBMS Interface Module, Version 4.1• Activity Planner, Version 4.2.1• One of the supported databases (DB2, Informix, Microsoft SQL Server, Oracle, or Sybase)
Inventory and Inventory Gateway	<ul style="list-style-type: none">• Tivoli Management Framework, Version 4.1, or later• Scalable Collection Service, Version 4.1.1• Java 1.3.0 for Tivoli• Java RDBMS Interface Module, Version 4.1• Java Client Framework for Tivoli, Version 4.1• One of the supported databases (DB2, Informix, Microsoft SQL Server, Oracle, or Sybase)
Resource Manager and Resource Manager Gateway	<ul style="list-style-type: none">• Tivoli Management Framework, Version 4.1, or later• One of the supported databases (DB2, Informix, Microsoft SQL Server, Oracle, or Sybase)
Software Distribution and Software Distribution Gateway	<ul style="list-style-type: none">• Tivoli Management Framework, Version 4.1, or later• Inventory, Version 4.2.1. Software Distribution requires that the Inventory, Version 4.2.1 component must be installed on the TMR Server.
Enterprise Directory Query Facility	<ul style="list-style-type: none">• Tivoli Management Framework, Version 4.1, or later• Java 1.3.0 for Tivoli• Resource Manager, for resource management of users• An installed and configured LDAP directory server. For a list of supported LDAP directory servers, see IBM Tivoli Configuration Manager Release Notes.
Pristine Manager	<ul style="list-style-type: none">• Tivoli Management Framework, Version 4.1, or later• One of the supported databases (DB2, Informix, Microsoft SQL Server, Oracle, or Sybase)
Pristine Manager Gateway	Tivoli Management Framework, Version 4.1, or later

Table 21. Server Component Prerequisites (continued)

Component	Software to be installed as prerequisite
Software Package Editor	<ul style="list-style-type: none"> • Tivoli Management Framework, Version 4.1, or later • Java 1.3.0 for Tivoli • Software Distribution, Version 4.2.1

Note: For more information on the components, refer to Installation Options.

- In Chapter 6, create a new section after the Components Installed section, named Component Prerequisites, and include the following text:

When using this installation, the following component prerequisites must be installed before starting the installation.

Table 22. Web Gateway Component Prerequisites

Component	Software to be installed as prerequisite
Web Gateway database	DB2
Web Gateway server	<ul style="list-style-type: none"> • Tivoli Management Framework, Version 4.1, or later. • A DB2 client that can connect to the Web Gateway database. • WebSphere Application Service is running.
Web Infrastructure	<ul style="list-style-type: none"> • Tivoli Management Framework, Version 4.1, or later. • IBM DB2. • IBM WebSphere Application Server • Web Gateway database and Web Gateway server.

Note: For more information on the components, refer to Installation Options.

- In Chapter 7, create a new section before the Locating the InstallShield Wizard Installation Program section, named Component Prerequisites, and include the following text:

When using this installation, the following component prerequisites must be installed before starting the installation.

Table 23. Desktop Component Prerequisites

Component	Software to be installed as prerequisite
Tivoli Desktop for Windows	None
Java components	None
Activity Planner GUI	Java components
Distribution Status console	Java components
Change Manager GUI	Java components
Inventory GUI	Java components
Software Package Editor	<ul style="list-style-type: none"> • Tivoli Management Framework, Version 4.1, or later • Java 1.3.0 for Tivoli

Note: For more information on the components, refer to Installation Options.

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 4.2.1 library:

Reference Manual for Software Distribution

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

- **APAR IY64823**

In chapter 3, in the explanation of the **wsetsps** command, replace the two paragraphs following the Description heading with the following two paragraphs:

- Using this command, you can add applications that were installed independently of Software Distribution to the Software Distribution catalog on the endpoint. The specified software package is assigned a state of IC-D-, indicating that it is installed and discovered.
- There are limitations to the change management operations that can be used for a discovered software package. Only the following operations are available:
 - Remove software package (not in Transactional mode). The related entry is removed from the Software Distribution catalog on the endpoint, but the application is not uninstalled.
 - Force install software package

User's Guide for Software Distribution

No information changes apply to the *User's Guide for Software Distribution* for this fix pack.

User's Guide for Deployment Services

The following new information applies to the *IBM Tivoli Configuration Manager: User's Guide for Deployment Services*.

- **APAR IY57467**

In chapter 3, "Using the command line", section "Parameters of Software Distribution Operations", tables 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, replace every occurrence of the **ExecuteTimeout** parameter with **ExecutionTimeout** and every occurrence of the **ExecuteTimeoutUnit** parameter with **ExecutionTimeoutUnit**.

- **APAR IY45548**

In chapter 1, "Using Activity Planner", section "Defining the Activity Planner Engine Parameters", add the following keyword after the **deep_gc_interval**:

commit_interval

Specifies the number of operations after which the data inserted in the Activity Planner database is saved. This setting applies to the plan submission phase, which is the one creating more data to be stored in the database. The default value is 500 operations, which means that data is committed after 500 Activity Planner operations have been completed. You can specify any positive integer, depending on the size of your environment. Note that frequent commit operations can significantly slow down system performance.

Release Notes

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

- **APAR IY63710**

The trace files tmesdisn.trc where n is the file number, generated when you issue a command line command, can be written to only by the user who was logged in when the command was issued. If another user logs in and issues a command line command, the trace file content is printed to the standard output.

WORKAROUND: Disable the tracing function, unless it is necessary. The tracing function is intended for debugging purposes. If enabled for extended periods of time, tracing can decrease performance and slow the processing of the product considerably. Alternatively, you can delete the trace files created by the previous user.

New information contained in previous fix packs.

This section contains new information for the following manuals of the IBM Tivoli Configuration Manager, Version 4.2.1 library, contained in the previous fix packs.

User's Guide for Software Distribution

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

- In Chapter 9. "Preparing a Software Package for Distribution", section "Exporting a Software Package", add the following note after the list of steps:

Note: On UNIX platforms, when you export a software package to an SPD format you have read and write privileges to the package, while all other users only have read privileges. For this reason, the owner of the exported SPD file should be the same user who exported the package.

- In Chapter 12. "Integrating the Tivoli Enterprise Console[®]", section "Software Distribution Classes", make the following changes:

- Delete the note:

Note: This list of classes is provided for reference only. Do *not* edit the tecad_sdnew.baroc file.

and replace it with:

Note: Do *not* change the structure of the tecad_sdnew.baroc file.

- In Table 14. "Software Distribution Tivoli Enterprise Console events", add the following information to the Notes section of the SD_Operation_Failed event:
You can change the severity level to CRITICAL, MINOR, or HARMLESS.

Reference Manual for Software Distribution

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

- In Chapter 3. "Using Commands", section "Server Commands", subsection "wexpspo", add the following note under Authorization:

Note: On UNIX platforms, when you export a software package to an SPD format you have read and write privileges to the package, while all other users only have read privileges. For this reason, the owner of the exported SPD file should be the same user who exported the package.

- In Chapter 4. "Managing Policy", section "Policy Methods", subsection "sp_val_operation", add the following two bullet points to the beginning of the Options list:

- send
- receive

User's Guide for Deployment Services

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

- In Chapter 2. "Performing Activity Planner Operations", section "Submitting and Monitoring Activity plans", subsection "Controlling the Execution of Activity Plans and Activities", make the following changes:
 - Change step 2 so that it reads:
 2. Select either the **Pause**, **Resume**, **Restart**, **Cancel**, or **Cancel Force** option from the Selected menu.
 - Add the following information after the explanation of **Cancel**:

You can use **Cancel Force** to change the operation state of an activity plan to "cancelled", even when submitted operations are not cancelled. **Cancel Force** has the same functionality as the **wcntpln —f** command.

Note: The **Cancel Force** button and menu option appear in English only.

- **Internal defect 49765**

In Chapter 7. "Using the Command Line", section "Managing Reference Models" add the following paragraph after the bulleted list:

You can specify a timeout for CLI commands in Change Manager using the environment variable `_CCM_CLI_TIMEOUT=<seconds>`. This is useful when you are using the **wsyncrmod** command to synchronize a reference model, because you can specify a timeout that gives **wsyncrmod** enough time to successfully complete. You can set the `_CCM_CLI_TIMEOUT_` variable in the shell or in the `setup_env` file.

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 4.2.1 library, referring to previous fix packs:

Planning and Installation

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

- **APAR IY53556**

In "Chapter 7. "Desktop Installation", section "Upgrading Tivoli Desktop for Windows", add the following note at the end of the chapter:

Note: If the Desktop for Tivoli Management Framework, Version 4.1 is already installed, no upgrade to Version 4.1.1 is performed. This is because the Desktop for Tivoli Management Framework, Version 4.1.1 does not offer any new features for IBM Tivoli Configuration Manager, Version 4.2.1.

- **APAR IY53601**

In "Chapter 2. Planning a Configuration Manager Environment", section "Using Configuration Management in Connected Tivoli Regions", replace the introductory sentence with the following:

This section discusses the requirements for running inventory scans, distributing software, and managing devices and users in connected Tivoli regions. If you plan to use IBM Tivoli Configuration Manager among Tivoli regions, the following conditions must be met:

- You can install the IBM Tivoli Configuration Manager components on the Hub region, or on the Hub and Spoke regions. Installing components on Spoke regions reduces the workload on the Hub region. For more information on Hub and Spoke regions, refer to *Tivoli Management Framework Planning for Deployment Guide*.

Note: If you install Activity Planner on more than one region, you need to create a separate Activity Planner database for each installation. These databases cannot communicate with each other and cannot share information on activity plans.

To work around this problem, you should write a script to extract data from each Activity Planner database and collect it at a central location, typically, the Hub region.

- **APAR IY56955**

In Chapter 5. "IBM Tivoli Configuration Manager Installation and Upgrade", section "Server Upgrade", add the following note to step 10:

Note: If you have installed Activity Planner version 4.1, rename the existing apm.ini file before performing the upgrade. When the upgraded Activity Planner starts, a new apm.ini file is created with up-to-date information.

Reference Manual for Software Distribution

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

- **APAR IY54907**

In Chapter 2. "Editing the Software Package Definition File", Table 11 "SPD File Attributes in File System Stanzas", add a second note to the explanation of the descend_dirs attribute:

Note: If you set this attribute to y when creating packages containing symbolic links, the symbolic links are resolved, and the data they point to is inserted in the package in place of the links. To transfer a directory containing symbolic links to directories and files without resolving the links, you must respect the following rules:

- Add directories to the package by setting the descend_dirs attribute to n
- Add links to the package by setting the follow_links and hard_link attributes to n

- **APAR IY55404**

In Chapter 1. "Editing the Software Package Definition File", section "System Actions", subsection "Restart", Table 38 "Software Package Definition File attributes of the restart stanza", replace the last bullet in the explanation of the force_restart attribute with the following text:

If the timeout attribute is greater than or equal to zero and the force_restart attribute is set to y, a soft reboot is invoked. If it fails, a hard reboot is performed after the timeout expires and when the gateway reconnects to the endpoint.

- **APAR IY56703**

In Chapter 1. "Editing the Software Package Definition File", section "Attributes in the File System Stanzas", Table "SPD File attributes in file system stanzas", remove the following note from the explanation of the rename_if_locked attribute:

Note: The `rename_if_locked` attribute is not supported for OS/400 endpoints.

User's Guide for Software Distribution

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

- **APAR IY52383**

In Chapter 15. "Troubleshooting", section "Troubleshooting Process", add the following text as the first paragraph in Step 3:

When a software package is distributed to an endpoint, a check is performed on a subset of the actions contained in the package. If any of the checks on these actions fails, the package installation stops and no action is performed on the endpoint. The following is a list of the actions that are checked on the endpoint.

Add Windows registry key

Fails if the required platform is not supported.

Add device object

Fails if the required platform is not supported.

Execute program

Fails on devices.

Install MSI product

Fails if the required platform is not supported.

Install AIX package

Fails if the required platform is not supported.

Install RPM package

Fails if the required platform is not supported.

Install Solaris package

Fails if the required platform is not supported.

Install Solaris patch

Fails if the required platform is not supported.

Add directory/files

Fails in the following cases:

- The specified destination is not valid.
- The base file does not exist. This check only applies to delta installations.
- The specified file is locked.

Check disk space

Fails on devices.

If all checks are successful, the package installation starts and the actions contained in the package are performed in the order in which they are listed.

If any actions fail for reasons other than those already explained, the package installation stops. All actions listed in the package before the failed one have already been performed on the endpoint.

You should install the software package in undoable mode, so you can return the system to its previous state if the installation fails.

- **APAR IY55736**

In Chapter 11. "Configuring a Network Topology", section "Software Distribution Methods", add the following paragraph at the end of the section:

The methods most frequently used by Software Distribution are:

export Requests package export.

unbuild/unbuild_ex
Unbuilds a software package.

estimate_sp_size
Estimates the software package size.

file_exists
Verifies whether the file exists on the source host file system.

save_spfile
Imports software packages in .sp format.

build Builds software packages in .spb format, imports built software packages (spb), and is used during data distributions when a package must be built.

get_package_info
Gathers the main information concerning the package (name, version, source host, format) during package import.

extract_spfile
Extracts the .sp file during export operations, evaluates the package size, and is used during distributions.

run_speditor
Starts the Software Package Editor in a server environment.

init_privileged
Initializes traces and configurations.

cm_execute_src
Starts a data distribution.

build_differences
Retrieves data to be sent to the endpoint.

dm_mdists_result
Manages post scripts during a datamoving operation.

cm_operation_ep
Used by the install repair operation (winstsp -mr).

cm_operation_ep2
Calls the endpoint during all distribution operations.

swd_mobile_setup
Starts the download of mobile libraries to the endpoint.

User's Guide for Deployment Services

No new information applies to the *IBM Tivoli Configuration Manager: User's Guide for Deployment Services* in previous fix packs.

Release Notes

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

- **APAR IY54453**

In Chapter 2. "Installation and upgrade notes", Table 1 "Supported Tier 1 operating systems by components and services", make the following change:
Divide the table row "IBM AIX Versions 5.1, 5.2" into two separate rows; one row for Version 5.1, and one row for Version 5.2. Both rows have the same check marks to indicate that Server/Managed Node and Endpoint are supported. Version 5.1 also has a check mark for Gateway, but Version 5.2 does not, because it does not support Gateway.

- **APAR IY53469**

In Chapter 3, "Software limitations, problems, and workarounds", section "Software limitations", subsection "Inventory", add the following information:

- Tivoli Inventory, Version 3.6.2, cannot run on Tivoli Management Framework, Version 4.1.1.

Contacting IBM Software Support

Before contacting IBM Software Support with a problem, refer to the IBM Software Support site by accessing the following Web address:

<http://www.ibm.com/software/support>

To access Tivoli support, click the Tivoli support link at the bottom right of the page.

If you want to contact IBM Software Support, see the *IBM Software Support Guide* at the following Web site:

<http://techsupport.services.ibm.com/guides/handbook.html>

The guide provides information about how to contact IBM Software Support, depending on the severity of your problem, and the following information:

- Registration and eligibility.
- Telephone numbers, depending on the country in which you are located.
- Information you must have before contacting IBM Software Support.

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