IBM Tivoli Configuration Manager

Readme File for Fix Pack 5 - PTF U806533

Version 4.2.1

> **Note**
>
> Before using this information and the product it supports, read the information in "Notices" on page 77.

This edition applies to fix pack 5 (PTF U806533) for version 4, release 2, modification level 1 of IBM Tivoli Configuration Manager (program number 5724-C06).

Contents

Tables

IBM Tivoli Configuration Manager 4.2.1 Readme File for Fix Pack 5 (PTF U806533)

This readme file provides important information about Fix Pack 5 (PTF U806533) 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. This fix pack fixes a variety of defects on *Software Distribution, Inventory, Activity Planner, Change Manager, Resource Manager, Web User Interface, Directory Query, Pristine Manager, and Scalable Collection Service* components.

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

About this release

This section includes the following topics:

CD structure

IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 5 includes *two* CDs:

Table 1. IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 5 (CD 1 of 2)

Directory or path	Contents
/docs	Readme file.
/images/INVENTORY /images/MCOLLECT /images/SWD	Images required for Configuration Manager in this fix pack.
/images/SWD_L10N	Images required for Software Distribution Language Support.
/xml	The XML file to be used by the ISMP installation program.

Table 2. IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 5 (CD 2 of 2)

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

Table 2. IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 5 (CD 2 of 2) (continued)

Directory or path	Contents
/PocketPC	Files required for enabling the Pocket PC Device feature.
/spb_installer	SPB Patch Installer that installs SPB interim fixes locally and the SPB Patch Installer Guide.

New features

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

- "New features in this fix pack"
- "New features in previous fix packs"

New features in this fix pack

There are no new features in this fix pack.

New features in previous fix packs

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

Table 3. Customer enhancement request references in previous fix packs

Modify cancel button on `endpoint_notification` panel	Feature 55522
New 32-bit `MRMBIOS.EXE`	Feature 180357
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
Mandatory date in End User Notification window.	Feature 50710
Displaying the .jar files version	Feature 55204
Pocket PC device agent feature	OR1020043017
Defer time management for end user notification panel	Feature 53373
Avoiding concurrent logins during critical distributions	Feature 54613

Modify cancel button on endpoint_notification panel
> With this feature you can close the new endpoint_notification panel in a different way. On the endpoint_notification panel, the X in the title bar of the panel has been removed, and the **cancel** button has been replaced by the **Reset** button, that resets the original values, if they have been changed. The only way to close the panel is to click **OK**.

New 32-bit MRMBIOS.EXE
> With this feature the Windows 64-bit platforms support has been extended. The old 16-bit mrmbios.exe file has been now replaced by a 32-bit file having the same name, and using new device drivers. You can use the mrmbios.exe file to scan new platforms such as AMD 64 and Itanium 64. In order to have this support, the Framework Interim Fix 9 4.1.1-LCF-0024 or later needs to be installed.

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**) have 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 are displayed in English only.

SD_operation_failed event is customizable

You can now choose the level of alarm you want to display for failed operations. Specify FATAL, CRITICAL, MINOR, WARNING, HARMLESS, or UNKNOWN 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.

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.

Displaying the .jar files version

With this feature you can display the version of installed .jar files, if available. You can start the command on Tivoli servers and managed nodes after having set the Tivoli environment, as described below:

On UNIX operating systems:
. ./wjarversion.sh *jarfile*

On Windows® operating systems:
wjarversion.bat *jarfile*

where:

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

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

Pocket PC device agent

With this feature you can easily reinstall the IBM Agent application after a hard reset or when the battery dies, without having to install the application from scratch. To ensure a persistent one-click installation of the device agent, after a hard reset or when the battery dies, enable this feature.

Use the following procedure to enable the Pocket PC device agent feature when the IBM Agent application is already installed on the device:

1. Copy on the source host in a temporary directory such as `C:\temp` the following three files from the directory `CD2\PocketPC`:
   - `ceagent.arm.CAB`
   - `IBM_DeviceAgent.ini.sample`
   - `InstallAgent.lnk`

2. Rename the `IBM_DeviceAgent.ini.sample` file to `IBM_DeviceAgent.ini`

3. Edit the `IBM_DeviceAgent.ini` file to uncomment and configure the keys
   ```
   mgmt.serveraddr=http://DMserver.domain.com/dmserver/WinceServlet
   mgmt.delete_ini_after_processing=no
   mgmt.auth.user=user name
   ```

   where:

   DMserver.domain.com
   > Is the hostname of the Tivoli Web Gateway Server workstation.

   mgmt.delete_ini_after_processing
   > Prevents the `IBM_DeviceAgent.ini` file from being deleted after it is processed. It is set by default to `no`.

   user name
   > Is the user ID.

4. Edit the `InstallAgent.lnk` file and set the variable `permanent_path` to the permanent path on the device, such as IPAQ File Store.

5. Copy the package `Tivoli_PocketPC_ARM_Agent_Patch.v4.2.1.FP03.spd` from the directory `CD2\PocketPC` to a temporary directory.

6. Edit the package `Tivoli_PocketPC_ARM_Agent_Patch.v4.2.1.FP03.spd` by setting the value of the `permanent_path` and `name` variables. The `permanent_path` is the permanent path on the device, while the `name` is the path of the files (`ceagent.arm.CAB`, `IBM_DeviceAgent.ini.sample`, `InstallAgent.lnk`) on the source host, such as `temp`.

7. Import the package.

8. Distribute the package to the device. The package installs the files on a permanent path of the device.

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

In this way, after a hard reset or when the battery dies, you can reinstall the IBM Agent application by just clicking the `InstallAgent.lnk` file on the device.

Use the following procedure to enable the Pocket PC device agent feature when the IBM Agent application is installed on the device for the first time:

- Before installing the IBM Agent on the device, you have to install on the endpoint that hosts the Tivoli Web Gateway Server the following package: `Tivoli_Web_Gateway_SRV_Fixv4.2.1.FP03.spb` located in `CD2\package`.

This package refreshes the files `ceagent.arm.CAB` and `IBM_DeviceAgent.ini.sample` on the Tivoli Web Gateway Server workstation.

To install and configure the device agent on WinCE with a persistent one-click installation, perform the following steps:

1. Rename the `IBM_DeviceAgent.ini.sample` file to `IBM_DeviceAgent.ini`.
2. Edit the `IBM_DeviceAgent.ini` file and set the `mgmt.delete_ini_after_processing` keyword to `no`.
3. Copy the `IBM_DeviceAgent.ini` and the device agent installation package CAB file into the root of a persistent store path on the device, such as IPAQ File Store.
4. Copy from the directory `CD2\PocketPC` the `InstallAgent.lnk` file to a temporary directory.
5. Edit the `InstallAgent.lnk` file and set the variable `permanent_path` to the permanent path on the device.
6. Copy from the directory `CD2\PocketPC` the `InstallAgent.lnk` file into the root of a persistent store path on the device.

In this way, after a hard reset or when the battery dies, you can reinstall the IBM Agent application by just clicking the `InstallAgent.lnk` file on the device.

Defer time management for end user notification panel
In the end user notification panel there are two fields to indicate the defer time. It is now possible to indicate the same time as a date and as a timestamp.

Avoiding concurrent logins during critical distributions
On Windows operating systems, you can use the concurrent login feature to prevent the end user from logging in to the workstation and performing a shutdown while a distribution is taking place. This feature guarantees that critical distributions are not interrupted. You can also define a maximum number of logins that can be performed during a distribution. In this case, the distribution is paused and restarts after the user logs off. For more information, see "Implementing the concurrent login feature" on page 36 on page 43.

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.

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 5 for APM component (4.2.1-APM-FP05), the script plans_*database*_schema_update_view.sql is located in the `$BINDIR/TME/APM/SCRIPTS` directory.

Note: If you have already installed IBM Tivoli Configuration Manager version 4.2.1 Fix Pack 3, no further action is required. Otherwise, perform the following steps:

1. Install Fix Pack 5 for APM component (4.2.1-APM-FP05) on the Tivoli server.
2. Update the V_PLAN_STATUS view by running the script plans_*database*_schema_update_view.sql.

For interconnected Tivoli regions, before performing any Activity Planner operation, all Tivoli servers (TMRs) must be at the same level as Fix Pack 5.

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

- 4.1.1-TMF-0058 interim fix for Tivoli management region servers, managed nodes, and gateways.
- 4.1.1-TMF-0055 interim fix for Mobile, JRIM, JCF, MDist 2 GUI, and Tivoli Desktop for Windows.
- 4.1.1-LCF-0028 interim fix for endpoints.

Limitations

Defect 182062

The legacy scan for USB devices on Itanium machines has been disabled, due to a Microsoft problem.

Defect 50475

When you use the Web Interface Gateway to install a software package, and IBM JRE 1.4.1 SR02 is installed, 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.

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 problem 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, previous fix packs.

Defect 50163

The following message:

```
DISSE0612W Delete not completed. File or path non-existent:
'c:\temp\dest\data.txt'
```

In the data moving log, is displayed 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.

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.

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. 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 file with DBCS characters and click **Send and Close**, you receive the error: FRWSL0024E: a failure 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.

Defect 55236

From the DataMovingRequest.1 profile, select the "Send" function, in the Data Moving Service Send Operation panel there is the Data Origin Type that contains "Source Host" in English while all the other fields are in Japanese.

Defect 55248

> The installation performed through ISMP of the Disconnected Speditor of IBM Tivoli Configuration Manager 4.2.1 FP03 is in English only.

Product fix history

IBM Tivoli Configuration Manager, Version 4.2.1, Fix Pack 5 supersedes all interim fixes and fix packs 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 18

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-FP05	Inventory, Version 4.2.1
4.2.1-INVGW-FP05	Inventory Gateway, Version 4.2.1
4.1.1-CLL-FP05	Scalable Collection Service, Version 4.1.1
4.2.1-SWDSRV-FP05	Software Distribution, Version 4.2.1
4.2.1-SWDGW-FP05	Software Distribution Gateway, Version 4.2.1
4.2.1-SWDJPS-FP05	Software Package Editor, Version 4.2.1
4.2.1-APM-FP05	Activity Planner, Version 4.2.1
4.2.1-CCM-FP05	Change Manager, Version 4.2.1
4.2.1-TRMSRV-FP05	Resource Manager, Version 4.2.1
4.2.1-WEB-FP05	Web Interface, Version 4.2.1
4.2.1-DQY-FP05	Directory Query, Version 4.2.1
4.2.1-PMSRV-FP05	Pristine Manager, Version 4.2.1
4.2.1-PMGW-FP05	Pristine Manager Gateway, Version 4.2.1
4.2.1-SWD_fr-0001	Software Distribution, Version 4.2.1 [fr] French Language Support

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

Table 5. Inventory APARs and defects included in this fix pack

Inventory, Version 4.2.1 4.2.1-INV-FP05				
167452	186463	186648	186560	IY76004
IY77822	IY78108	IY78778	IY78940	IY79236
IY80625	IY80837	IY81359	IY81636	IY81879
IY82014	IY82061			

The following section describes each APAR or internal defect in detail.

Defect 167452

Abstract:

> APM plan not closed if you cancel Inventory scan

Error Description:
If you submit an APM plan containing an Inventory scan, then cancel the scan using `wcancelscan -i ID`, the APM is notified only for the successful and failed targets. It is not notified for the canceled ones so the plan will never be closed.

Defect 186463

Abstract:
AIX POWER3 detected as Power PC Family

Error Description:
In the Processor Table the POWER3 is generically reported as "Power PC Family".

Defect 186648

Abstract:
HP 11 core dump

Error Description:
When `wscanner` is executed on an HP 11 machine, the scan completes successfully, but a core dump file is created in the SCAN directory and the serial number is filled with a garbage value.

Defect 186560

Abstract:
Trace file is not created

Error Description:
After following the test steps in APAR IY79732, the trace file trace_inv.trc is not created.

APAR IY76004

Abstract:
Inventory hardware scan crashes backup tapes

Error Description:
Inventory hardware scan crashes backup tapes on SuSE Linux servers - network servers with different backup devices and connected robots. If, during a scan, there is a backup running, the tape is marked as full and ejected. The tape which was ejected and marked as full, can no longer be used.

The customer asked Inventory if there was a way to detect if a tape robot is present, and if so, to stop the storage hardware scan. The check is done only if the new environment variable: CHECK_ULTRIUM_TAPE_RUNNING is set.

APAR IY77822

Abstract:
Manufacture ID reported as "Sharp" on IBM Xseries 225 model.

Error Description:
If 16-bit version of mrmbios.exe is run, the manufacturer is reported as Sharp instead of IBM.

APAR IY78108

Abstract:
Inventory GUI does not open due to a `NOT_FOUND` error in odstat

Error Description:
Inventory GUI on UNIX does not open due to a `NOT_FOUND` error in the odstat. The problem happens when the `WD_DESKTOP_HOST` variable, inherited by the inventory GUI contains the hostname (not fully qualified) of the local machine and there is no managed node with the same name in the odlist output.

APAR IY78778

Abstract:
Table INST_SMBIOS_DATA contains multiple entries for one system

Error Description:
If you run the SMBIOS_DATA_QUERY, for each scanned endpoint you see two rows, each showing a different smbios_id.

APAR IY78940

Abstract:
Inventory GUI does not open with a non-administrative user

Error Description:
After installing the Tivoli Desktop and the Inventory GUI component on an Windows machine, if you log on as a non-administrative user, the Inventory GUI does not open and the InvGuiDebug.log is not written. This error does not occur if you log on as an Administrator.

APAR IY79236

Abstract:
Data is not complete for the package_vers field in the native_sware table

Error Description:
In the nativ_sware query output, the package_vers field is incomplete. The data is being truncated to less than 32 characters, even though the field is defined as string with a length of 128.

APAR IY80625

Abstract:
Custom scan hanging

Error Description:
When the endpoint timeout expires, a new inv_config_ep_meth is spawned. So if a custom script hangs, many inv_config_ep_meth methods will run in parallel on one endpoint and this can cause a performance impact.

APAR IY80837

Abstract:
Software scans very slow to write to database.

Error Description:
Running any software scan takes too long. rim.log file contains a trace message about the problem.

APAR IY81359

Abstract:
Memory problem caused by inv_rcv_meths

Error Description:
If multiple .DAT files are uploaded incorrectly from an isolated machine to the inv/ISOLATED/depot directory, a trailing 0x0A is added at the end of each file, and the command `wloadiso -f a.dat b.dat c.dat` causes a crash due to a memory fault. This problem does not occur if the files are uploaded one by one through a list.

APAR IY81636

Abstract:
Problem scanning an AIX endpoint file systems

Error Description:
Inventory is not able to retry the partition information on an AIX endpoint with 619 file systems mounted. The buffer used to hold the vmount structures is too small.

APAR IY81879

Abstract:
H_SYS_INSTANCE.TME_OBJECT_LABEL not updated if endpoint renamed

Error Description:
If an endpoint is renamed using the command `wep oldlabel set_label newlabel`), re-scanning the endpoint does not change the tme_object_label in H_SYS_INSTANCE.

APAR IY82014

Abstract:
wepscan trap on Windows machines

Error Description:
If you run the command `wepscan` on either on an endpoint or on an isolated machine, an access violation will occur.

APAR IY82061

Abstract:
mrmbios.exe ends with error when BIOS contains special characters

Error Description:
On a Windows machine, where a BIOS field contains characters between 0x00 and 0x20, the mrmbios.exe ends with an error.

MCollect: The following APARs for MCollect were fixed.

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

MCollect, Version 4.2.1, 4.2.1-CLL-FP05				
IY77219	IY79215	IY79225		

The following section describes each APAR in detail.

APAR IY77219

Abstract:

iom_send error for mc_get_data with the single_port_bdt enabled

Error Description:

With Framework 4.1.1, SCS 4.2.2, and Inventory 4.2.2. If you are setting the single_port_bdt and leaving the "single port bdt service port number" to the default one (9401), a communication error occurs `iom_send failed with code 6` in the mcollect.log.

APAR IY79215

Abstract:

FIFO order of CTOCS in data handler input queue is changing EAC

Error Description:

When running the data handler with 13 threads and having an output queue of about 80, if you run the command: `wcstat -qo @InvDataHandler:inv_data_handler`, you get the list of entries in the output queue. Then, if you stop the data handler and restart it and rerun `wcstat -qo @InvDataHandler:inv_data_handler`, the entries that were at the end of the output queue are now first. It appears that the list is in reverse order, i.e. 1, 2, 3, 4, 5...78, 79, 80 becomes 80, 79, 78,...3, 2, 1.

APAR IY79225

Abstract:

TCP connection remained in CLOSE_WAIT state

Error Description:

The collector/endpoint connection remains in the CLOSE_WAIT state forever. Problem seems to happen every time there is a communication failure as a result of an abort message sent by the endpoint to the collector.

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

Table 7. Software Distribution APARs and defects included in this fix pack

Software Distribution, Version 4.2.1, 4.2.1-SWDSRV-FP05				
56313	IY77069	IY77071	IY77526	IY78897
IY79008	IY80647	IY81596		
Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-FP05				
IY76100	IY79151	IY79299	IY80648	IY81141
IY81144				
Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-FP05				
56249	56283	IY77361	IY81040	
Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-FP05				
56249	56283	IY76100	IY77361	IY80647
IY81040	IY81141	IY81144		

The following section describes each APAR or defect in detail.

Defect 56249

Abstract:

Wrong path of an execute user program is displayed

Error Description:
With Software Package Editor for AS/400, the path for a user program is shown incorrectly. In the Install tab of Execute Program Properties panel, click **Browse** tab, then select the path of the user program - /tmp/test.sh - and click **OK**. In the **Path** box the wrong path appears: c:\Program Files\Tivoli\swdis\422\speditoras400\w32-ix86\classes\test.sh instead of /tmp/test.sh

Defect 56283

Abstract:
Wrong file path in the advanced execute user program props

Error Description:
With Software Package Editor for AS/400, the path for add an advanced user program is shown incorrectly. In the Advanced section of the Execute Program Properties click **Browse** for the **Input File**, **Output File**, and **Error File** fields, then select the path of the file and click **OK**. In the **Path** field, the path appears incorrectly - <default file path>\file_selected instead of /<path selected>/file_selected.

Defect 56313

Abstract:
Unit test: General failure importing in software package format

Error Description:
A general failure occurs importing as a software package.

APAR IY76100

Abstract:
Execution fails on AS/400 endpoint when execute_user_program is processed

Error Description:
User tries to install a software package block containing an user program. Execution fails because spd_eng tries to spawn the user program with userid=qsecofr. In the software package editor GUI, the default user program UID and GUID are both set to -1 (they refer to the user qtivroot).

APAR IY77069

Abstract:
wfptosp does not handle LINUX interpretation

Error Description:
wfptosp utility does not handle Linux interpretation appropriately. Default variables are created for other UNIX interpretations - HP, Sun, and AIX - but not for Linux.

APAR IY77071

Abstract:
wfptosp warning message

Error Description:
The wfptosp utility maps each program to be executed in the file package definition (on the source host) into a program to be executed on the endpoint. The program itself is sent to the endpoint as corequisite file.

When the packaging is created, however, the `discend_dirs` is set, and since this attribute has no meaning for corequisite, a warning error message is generated at import time.

APAR IY77361

Abstract:
The software package editor does not work properly using HP installation packages

Error Description:
The software package editor (connected or disconnected) does not work properly using the HP installation packages feature when the HP depot file does not exist on the target machine. If you export the package you can see that the .spd file has no package_file entry source_dir to include the file name and this package cannot be installed.

APAR IY77526

Abstract:
No reg_tl_plugin.sh file is created or installed on an upgrade of Tivoli Configuration Manager

Error Description:
If you migrate from version 4.2 to 4.2.x the reg_tl_plugin.sh is not downloaded.

APAR IY78897

Abstract:
Executing wexpspo against a software package in lost-n-found will cause your command prompt to hang

Error Description:
When a software package is in lost-n-found and you execute a `wexpspo <software package>` command against it, you will hang your command prompt. The only way to get your prompt back is to click **Crtl+C**.

APAR IY79008

Abstract:
wfptosp scripts does not manage the & symbol when used for a package name, causing the script to fail

Error Description:
The file package name is managed without quotes inside the wfptosp script, which causes errors if the file package name contains special characters like &.

APAR IY79151

Abstract:
post.cat and post.cat.sem are locked by another software distribution process, preventing proper software distribution processing on endpoint

Error Description:
The problem is that wdusprf unlocks the epsp.cat catalog before processing the 'per-user' packages. Due to this, another spd_eng can work, and it may occur that both wdusrprf and spd_eng use the same files at the same time (i.e. post.cat). If these files are corrupted, they must be deleted after patch installation to let the new installation to work properly.

APAR IY79299

Abstract:
wdusrprf.exe popup error received when user logs into particular endpoint. If GetLongPathName returns an error. wdusrprf traps

Error Description:
wdusrprf.exe popup error received when user logs in. The problem is due to the fact that the GetLongPathName Microsoft API fails.

APAR IY80647

Abstract:
Keywords not used in all_line stanza are mistakenly written in SP text

Error Description:
The add_line and add_token stanza contain remove_if_modified, replace_if_existing, and replace_if_newer, all of which are not used.

APAR IY80648

Abstract:
Need to make REG_SZ compatible with REG_EXPAND_SZ

Error Description:
For certain registry keys like PATH, some Windows installation uses REG_SZ and other installations use REG_EXPAND_SZ. If the software package adds a key with the REG_SZ type and then finds a key with the REG_EXPAND_SZ type, it considers the two types different, so it replaces the old key instead of simply adding the new value at the end of the existing one. For example, on the target machine, you create a registry value of type REG_SZ with the name `mypath` and value `one;two`. You then create a package that should append `three` to that registry value, defined in the package as REG_EXPAND_SZ. The expected value of mypath should be `one;two;three`, but it will actually be just `three`.

APAR IY81040

Abstract:
install_hp_packages works on HP-UX 11.00, but fails on HP-UX 11.11

Error Description:
User has a software package that works properly on HP-UX 11.00, but fails on HP-UX 11.11. In the package log, there is this warning: `The file "/home/gussorlk/sw999997" defines an option  ""loglevel=2""" which is not a valid option for swinstall.`

APAR IY81141

Abstract:
wsinstsp command failed with "DISSE0082E error decoding software package object. It could be corrupted."

Error Description:
If a software package block contained an Execute_Program created from the software package Editor 0401 patch, the wdinstsp command from fix pack 4 failed to install the software package block with the following error:

```
 wdinstsp -f 401.spb
DISSE0082E Error decoding software package object.
It could be corrupted, or not a valid object, or a network error occured.
DISSE0005E Operation unsuccessful.
```

APAR IY81144

Abstract:
> Symbolic link not created when variable is passed

Error Description:
> User is trying to pass path variable, then create a link, however this does not work on UNIX endpoints. User is using a variable to set a symbolic link.

APAR IY81596

Abstract:
> Running a datamoving command with a postscript creates error file in /tmp

Error Description:
> If you run a datamoving command, and specify a post script on the managed node, the standard error of the script is kept in the /tmp directory.

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

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

Activity Planner, Version 4.2.1, 4.2.1-APM-FP05				
56338	IY75060	IY77871	IY78261	IY80721
IY80844	IY81197	IY81777		

The following section describes each APAR and defect in detail.

Defect 56338

Abstract:
> If a plan is saved with an empty target list, importing it fails

Error Description:
> If you create a send activity, and insert two target lists - the first one has 2 endpoints and the second one is empty - then save the plan as a template, exporting it, and then import it, the import will fail with this error:
>
> ```
> AMN0053E The following error occurred during an attempt to import a plan:
> The tag <targets> is empty.
> ```
>
> You should not actually be able to save the plan as a template if there is an empty list.

APAR IY75060

Abstract:
> APM_core does not honor max_rpc_threads

Error Description:
> APM_core does not manage max_rpc_threads-like setting mechanism. Because of this, it is necessary to add a keyword that can be used to instruct APM to set a maximum number of threads APM_core can use.

APAR IY77871

Abstract:
Plan remains waiting if restarted after complete_not_after

Error Description:
Customer submits a plan having a complete_not_after date set. If the plan fails and gets restarted after the completion_not_after date/time, the plan with its activities moves to waiting status for ever.

APAR IY78261

Abstract:
Problem submitting APM plans

Error Description:
When retrieve_gateways_info=no, the function setEpTargetsInfoWithoutGatewayInfo is invoked. In this function the OID of the target is retrieved from a hashtable. The label is always managed without a full region, and this causes an error when an endpoint is duplicated.

APAR IY80721

Abstract:
Job apm_ev_recursio not created in case of rim planner failure

Error Description:
If you create an activity plan with the recursion mechanism, then delete the rim object planner, and restore it after the next recursion should occur,the APM_EV_RECURSIO job will not be created in the wgetsched outoput. If you run `wcntpln -Rv` you will see that the recursion for the created plan is still active, but the next recursion that should run will not. It will never run because there is no entry in the Tivoli scheduler.

APAR IY80844

Abstract:
Targets are not sorted in order after plan submission

Error Description:
If you have a text file containing a list of targets in alphabetic order, then create a plan with two activities using that text file, after you submit the plan, the target lists in each activity are not sorted in alphabetic order.

APAR IY81197

Abstract:
wmonpln output does not sort order by plan ID

Error Description:
The wmonpln -lw output does not sort plan ID in order. This is not the correct behavior - The plan ID column should be sorted in order.

APAR IY81777

Abstract:
Activity planner does not process incoming reports if repqueue.data is corrupted.

Error Description:
Customer gets the following exception when processing a report:

```
com.tivoli.apm.core.APMHandler : exception executing operation.
Try to continue: java.lang.ClassCastException: java.lang.Object
java.lang.ClassCastException: java.lang.Object
at com.tivoli.apm.core.APMHandlernageReports (APMHandler.java:1203)
at com.tivoli.apm.core.APMHandler.execAction (APMHandler.java:3074)
```

The submission of the plan remains in pending state without completion.

Change Manager: The Change Manager, Version 4.2.1 (4.2.1-CCM-FP05), component does not contain any fixed APARs.

Resource Manager: The Resource Manager, Version 4.2.1 (4.2.1-TRM-FP05), component does not contain any fixed APARs.

Web Interface: The Web Interface, Version 4.2.1 (4.2.1-TRM-FP05), component does not contain any fixed APARs

Directory Query: The following APARs and internal defects for Directory Query were fixed:

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

Directory Query, Version 4.2.1, 4.2.1-DQY-FP05				
IY82979				

The following section describes each APAR and defect in detail.

APAR IY82979

Abstract:
  Changing SUN JCE with IBM JCE

Error Description:
  The SUN Java Cryptography extension (JCE) is being replaced with the IBM JCE.

Pristine Manager and Pristine Manager Gateway: The Pristine Manager, Version 4.2.1 (4.2.1-PMSRV-FP05) and Pristine Manager Gateway, Version 4.2.1 (4.2.1-PMGW-FP05) components do not currently contain any fixed APARs.

Fixes contained in previous fix packs and interim fixes
The following APARS and defects were shipped in previous fix packs and interim fixes.

Table 10. Inventory APARs and defects included 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

Table 10. Inventory APARs and defects included from 4.2.1-INV-FP01 (continued)

IY55118	IY55123	IY55129	IY55178	IY55277
IY56521	IY56612	IY56944		

Table 11. Inventory APARs and defects included from 4.2.1-INV-0004

Inventory, Version 4.2.1 4.2.1-INV-0004				
170713	IY54129			

Table 12. Inventory APARs and internal defects included 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
IY62660	IY63636	IY64626	IY64677	IY64758
IY65052	IY65127	IY65261		

Table 13. Inventory APARs and defects included from 4.2.1-INV-0006

Inventory, Version 4.2.1 4.2.1-INV-0006				
160354	168605	169381	171238	172195
172223	172510	172760	173498	173582
173586	IY54391	IY55170	IY55215	IY55916
IY55962	IY55993	IY56098	IY56104	IY56195
IY56410	IY57200	IY57351	IY57445	IY57580
IY57804	IY57967	IY58188	IY58338	IY58587
IY58599	IY58786	IY58789	IY58936	

Table 14. Inventory APARs and internal defects included from 4.2.1-INV-FP03

Inventory, Version 4.2.1 4.2.1-INV-FP03				
175507	176561	177490	178083	178601
IY65415	IY65476	IY65759	IY66256	IY66569
IY66638	IY66722	IY66780	IY66782	IY66998
IY67049	IY67171	IY67277	IY67728	IY67806
IY68056	IY68383	IY68584	IY68757	IY68772
IY68793	IY68842	IY68885	IY69103	IY69344
IY69400	IY69466	IY69882	IY70006	IY70008
IY70234	IY70284	IY70308	IY70604	IY70846
IY70912	IY70916	IY70951	IY71000	IY71001

Table 14. Inventory APARs and internal defects included from 4.2.1-INV-FP03 (continued)

Inventory, Version 4.2.1 4.2.1-INV-FP03				
IY71015	IY71336	IY71807	IY72224	IY72269

Table 15. Inventory APARs and defects included from 4.2.1-INV-0012

Inventory, Version 4.2.1 4.2.1-INV-0012				
175507	176561	IY65415	IY65476	IY65759
IY66638	IY66569	IY66722	IY66780	IY66998
IY67049	IY67728			

Table 16. Inventory APARs and defects included from 4.2.1-INV-FP04

Inventory, Version 4.2.1 4.2.1-INV-FP04				
IY72944	IY73020	IY73290	IY73560	IY73562
IY74343	IY74421	IY74693	IY74769	IY75165
IY75168	IY75169	IY75350	IY75358	IY75611
IY76150	IY76421	IY76623		

Table 17. Inventory APARs and defects included from 4.2.1-INV-0019

Inventory, Version 4.2.1, 4.2.1-INV-0019				
IY74730	IY75238	IY76097	IY76778	IY77367
IY77378	IY77438	IY77522	IY77660	IY78414

Table 18. Inventory APARs and defects included from 4.2.1-INV-0022

Inventory, Version 4.2.1, 4.2.1-INV-0022				
IY79372	IY79780	IY79796	IY79890	IY80066

Table 19. MCollect APARs and internal defects included from 4.1.1-CLL-FP01

MCollect, Version 4.1.1, 4.1.1-CLL-FP01				
168430	IY56711			

Table 20. MCollect APARs and internal defects included from 4.1.1-CLL-0002

MCollect, Version 4.1.1, 4.1.1-CLL-0002				
175352	IY55622	IY58194		

Table 21. MCollect APARs and internal defects included from 4.1.1-CLL-0003

MCollect, Version 4.1.1, 4.1.1-CLL-0003				
IY79101				

Table 22. MCollect APARs and internal defects included from 4.1.1-CLL-FP03

MCollect, Version 4.1.1, 4.1.1-CLL-FP03				
IY66400	IY69816	IY70039	IY70283	

Table 23. Software Distribution APARs and defects included from 4.2.1-SWDSRV-F0P1, 4.2.1-SWDGW-F0P1, 4.2.1-SWDJPS-F0P1, and 4.2.1-SWDEP-F0P1

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		

Table 24. Software Distribution APARs and defects included from 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-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
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

Table 24. Software Distribution APARs and defects included from 4.2.1-SWDSRV-FP01, 4.2.1-SWDGW-FP01, 4.2.1-SWDJPS-FP01 and 4.2.1-SWDEP-FP01 (continued)

IY52801	IY53499	IY53522	IY53571	IY53916
IY53959	IY54238	IY54261	IY54450	IY55058
IY55275	IY55298	IY55402	IY55766	IY55855
IY56568	IY56613	IY57202	IY57658	

Table 25. Software Distribution APARs and defects included from 4.2.1-SWDSRV-FP02, 4.2.1-SWDGW-FP02, 4.2.1-SWDJPS-FP02, and 4.2.1-SWDEP-FP02

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				
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

Table 26. Software Distribution APARs and defects included from 4.2.1-SWDSRV-F2P1, 4.2.1-SWDGW-F2P1, 4.2.1-SWDJPS-F2P1, and 4.2.1-SWDEP-F2P1

Software Distribution, Version 4.2.1 4.2.1-SWDSRV-F2P1				
IY63953	IY65524	IY65973	IY66475	IY67238
IY67292	IY67569			
Software Distribution Gateway, Version 4.2.1 4.2.1-SWDGW-F2P1				
IY65274	IY65596	IY66578	IY66652	IY66698
IY66754	IY6786	IY67113	IY67173	
Software Package Editor, Version 4.2.1 4.2.1-SWDJPS-F2P1				
None				
Software Package Editor for Endpoints, Version 4.2.1 4.2.1-SWDEP-F2P1				
IY65274	IY65596	IY66578	IY66652	IY66698
IY66754	IY6786	IY67113	IY67416	

Table 27. Software Distribution APARs and defects included from 4.2.1-SWDSRV-F2P2, 4.2.1-SWDGW-F2P2, 4.2.1-SWDJPS-F2P2, and 4.2.1-SWDEP-F2P2

Software Distribution, Version 4.2.1 4.2.1-SWDSRV-F2P2				
IY68396	IY68841	IY68920	IY69109	
Software Distribution Gateway, Version 4.2.1 4.2.1-SWDGW-F2P2				
IY67996	IY68290	IY68411	IY68587	IY68864
IY68920	IY69280	IY69401	IY70198	IY70206
Software Package Editor, Version 4.2.1 4.2.1-SWDJPS-F2P2				
None				
Software Package Editor for Endpoints, Version 4.2.1 4.2.1-SWDEP-F2P2				
IY67572	IY67722	IY68051	IY68161	IY68290
IY68411	IY68587	IY68864	IY69280	IY69401

Table 28. Software Distribution APARs and defects included from 4.2.1-SWDSRV-FP03, 4.2.1-SWDGW-FP03, 4.2.1-SWDJPS-FP03, 4.2.1-SWDEP-FP03, and 4.2.1-SWD_fr-0001

Software Distribution, Version 4.2.1, 4.2.1-SWDSRV-FP03				
IY68130	IY68626	IY70587	IY70596	IY70651
IY71192	IY71401	IY71403	IY71443	IY71461
IY71795	IY72216	IY72454		
Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-FP03				
55052	IY68282	IY68700	IY70495	IY70505
IY71010	IY71192	IY71983	IY71991	IY72277
IY72454	IY72490	IY72698	IY72786	
Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-FP03				
None				
Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-FP03				
IY67890	IY68282	IY68380	IY68700	IY70495
IY70505	IY71010	IY71991	IY72490	IY72632
IY72698	IY72786			

Table 28. Software Distribution APARs and defects included from 4.2.1-SWDSRV-FP03, 4.2.1-SWDGW-FP03, 4.2.1-SWDJPS-FP03, 4.2.1-SWDEP-FP03, and 4.2.1-SWD_fr-0001 (continued)

Software Distribution, Version 4.2.1 [fr], 4.2.1-SWD_fr-0001, French Language Support				
IY70048				

Table 29. Software Distribution APARs and defects included in 4.2.1-SWDSRV-FP04, 4.2.1-SWDGW-FP04, SWDJPS-FP04, and 4.2.1-SWDEP-FP04

Software Distribution, Version 4.2.1, 4.2.1-SWDSRV-FP04				
IY73006	IY73219	IY73540	IY74170	IY74847
IY75068	IY75474	IY76041		
Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-FP04				
IY73540	IY73565	IY74170	IY74578	IY74585
IY74764	IY74801	IY75236	IY75263	IY75474
IY76010	IY76831			
Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-FP04				
None				
Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-FP04				
55913	IY73565	IY76008	IY76041	IY76488

Table 30. Software Distribution APARs and defects included in 4.2.1-SWDSRV-F4P1, 4.2.1-SWDGW-F4P1, SWDJPS-F4P1, and 4.2.1-SWDEP-F4P1

Software Distribution, Version 4.2.1, 4.2.1-SWDSRV-F4P1				
IY76698	IY77936			
Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-F4P1				
56239	56240	56266	IY76694	IY77261
IY77363	IY77516	IY77601	IY77602	IY77687
IY77689	IY78072	IY78195		
Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-F4P1				
IY77833				
Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-F4P1				
IY76968	IY77508	IY77833		

Table 31. Software Distribution APARs and defects included in 4.2.1-SWDSRV-F4P2, 4.2.1-SWDGW-F4P2, SWDJPS-F4P2, and 4.2.1-SWDEP-F4P2

Software Distribution, Version 4.2.1, 4.2.1-SWDSRV-F4P2				
IY80104	IY80708			
Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-F4P2				
None				
Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-F4P2				
None				
Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-F4P2				
None				

Table 32. Activity Planner APARs and internal defects included from 4.2.1–APM-F0P1

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	

Table 33. Activity Planner APARs and internal defects included from 4.2.1–APM-FP01

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	IY56955	IY57122
IY57163	IY57166			

Table 34. APARs and internal defects included from 4.2.1-APM-FP02

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

Table 35. APARs and internal defects included from 4.2.1-APM-F2P1

Activity Planner, Version 4.2.1, 4.2.1-APM-F2P1				
IY64606	IY65552	IY65622	IY65781	IY66021
IY66713	IY66884	IY67421	IY67715	IY68048

Table 36. APARs and internal defects included from 4.2.1-APM-F2P2

Activity Planner, Version 4.2.1, 4.2.1-APM-F2P2				
IY67420	IY67427	IY68241	IY69083	IY69815

Table 37. APARs and internal defects included from 4.2.1-APM-FP03

Activity Planner, Version 4.2.1, 4.2.1-APM-FP03				
IY68138	IY69394	IY70587	IY71064	IY71340
IY71696	IY71810	IY71812	IY71963	IY72167

Table 38. APARs and internal defects included from 4.2.1-APM-FP04

Activity Planner, Version 4.2.1, 4.2.1-APM-FP04				
IY72845	IY72998	IY73503	IY73578	IY73642
IY73924	IY74285	IY74288	IY74438	IY74468

Table 38. APARs and internal defects included from 4.2.1-APM-FP04 (continued)

Activity Planner, Version 4.2.1, 4.2.1-APM-FP04				
IY74754	IY74842	IY74892	IY74948	IY75114
IY75608	IY75767	IY75834		

Table 39. APARs and internal defects included from 4.2.1-APM-F4P1

Activity Planner, Version 4.2.1, 4.2.1-APM-F4P1				
56137	IY77364	IY78280	IY78730	

Table 40. APARs and internal defects included from 4.2.1-APM-F4P2

Activity Planner, Version 4.2.1, 4.2.1-APM-F4P2				
IY80151	IY80397			

Table 41. Change Manager internal defects included from 4.2.1-CCM-F0P1

Change Manager, Version 4.2.1 4.2.1-CCM-F0P1				
47196				

Table 42. Change Manager internal defects included from 4.2.1-CCM-FP01

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

Table 43. APARs and internal defects included from 4.2.1-CCM-FP02

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

Table 44. APARs and internal defects included from 4.2.1-CCM-F2P1

Change Manager, Version 4.2.1 4.2.1-CCM-F2P1.				
IY65948	IY66712			

Table 45. APARs and internal defects included from 4.2.1-CCM-F2P2

Change Manager, Version 4.2.1 4.2.1-CCM-F2P2				
IY68427				

Table 46. Web Interface APARs and internal defects included from 4.2.1-WEB-F0P1

Web Interface, Version 4.2.1 4.2.1-WEB-F0P1				
47625	47945			

Table 47. Web Interface APARs and internal defects included from 4.2.1-WEB-FP01

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

Table 48. Web Interface APARs and internal defects included from 4.2.1-WEB-FP02

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

Table 49. Web Interface APARs and internal defects included from 4.2.1-WEB-FP03

Web Interface, Version 4.2.1, 4.2.1-WEB-FP03			
IY70235	IY70838		

Table 50. Web Interface APARs included from 4.2.1-WEB-FP04

Web Interface, Version 4.2.1 4.2.1-WEB-FP04				
IY76567				

Table 51. Directory Query APARs and internal defects included from 4.2.1-DQY-FP01

Directory Query, Version 4.2.1 4.2.1-DQY-FP01				
IY52340				

Table 52. Pristine Manager APARs included from 4.2.1-PMGW-F0P1

Pristine Manager Gateway, Version 4.2.1 4.2.1-PMGW-F0P1				
47523				

Table 53. Pristine Manager APARs included from 4.2.1-PMSRV-FP01

Pristine Manager, Version 4.2.1, 4.2.1-PMSRV-FP01				
IY55649				

Table 54. Pristine Manager APARs and internal defects included from 4.2.1-PMSRV-FP02

Pristine Manager, Version 4.2.1 4.2.1-PMSRV-FP02				
IY58575				

Installation

This section describes how to install fix pack 5 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 28
- "Traditional fix pack installation methods" on page 28
- "Software package block (SPB) fix pack installation for GUI components" on page 31
- "Updating the inventory schema" on page 35

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 **Download Tivoli Platform and Database Support 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*.

Traditional fix pack installation methods

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

- "Installing fix packs using ISMP"

  The InstallShield MultiPlatform (ISMP) program, which installs the appropriate IBM Tivoli Configuration Manager fix pack for the entire Tivoli management region (Tivoli region).

- "Installing fix packs using the Tivoli desktop" on page 29

  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 30

  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 31

  The SIS console or SIS commands you use to specify the fix pack to install and on which target workstations to install them.

Installing fix packs using ISMP

The InstallShield MultiPlatform (ISMP) program provides a wizard-guided process for installing fix packs. It performs a check of the environment and installs the prerequisites, if any, to perform the upgrade process.

This installation can be used on all platforms supported as a Tivoli server, excluding Linux® for S/390®.

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

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

To upgrade your IBM Tivoli Configuration Manager environment with a fix pack, complete the following steps:

1. Locate the setup executable and run the following command in the root directory of IBM Tivoli Configuration Manager, Version 4.2.1 Installation CD-ROM:
   - On Windows platforms, `setup.exe –cmpatch`
   - On all other platforms, `setup_$(INTERP).bin –cmpatch`, where `$(INTERP)` represents the operating system on which you are launching the upgrade process.

2. Accept the Software License Agreement. Click **Next**.

3. Select the fix pack directory /xml. Click **Next**.

4. The actions necessary to upgrade your environment are being generated. When the process completes, a panel displays the fix pack components you must install. Click **Next**.

5. Select one of the following Depot options:

   Query when needed
   > The InstallShield wizard prompts you for the location of product images. This option requires you to respond to a series of prompts during the installation process. This is the default setting.

   Verify local depot
   > The InstallShield wizard prompts for the directory to which you have copied the installation images. The InstallShield wizard then searches all subdirectories of this directory to verify that all images are present. If an image is not found, you are prompted to provide its location. The installation process can then run unattended.

   Remote
   > Select this option if images are deployed on a managed node before you start the installation.

   Click **Next**.

6. In the Step List, select the steps you want to run. Change the status of steps you do not want to run immediately to Held.

7. Click **Run All** to run all steps whose status is Ready or click **Run Next** to run steps individually.

For more information about installing using ISMP, see *IBM Tivoli Configuration Manager: Planning and Installation Guide*.

Installing fix packs using the Tivoli desktop

When installing fix packs using the Tivoli desktop, the images are located in the images subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 5 CD (1 of 2). The Tivoli desktop can upgrade the same product on multiple workstations simultaneously.

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 55. 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 5 CD (1 of 2).

-i <index file>
> Specifies the product installation index file on 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 55. IND files for components

IND file	Component name	Tag
421INVFP.IND	Inventory, Version 4.2.1	4.2.1-INV-FP05
421LCFFP.IND	Inventory Gateway, Version 4.2.1	4.2.1-INVGW-FP05
411CLLFP.IND	Scalable Collection Service, Version 4.1.1	4.1.1-CLL-FP05
SWDFP5.IND	Software Distribution, Version 4.2.1	4.2.1-SWDSRV-FP05
SDGWFP5.IND	Software Distribution Gateway, Version 4.2.1	4.2.1-SWDGW-FP05
SDJPFP5.IND	Software Package Editor, Version 4.2.1	4.2.1-SWDJPS-FP05
APMFP5.IND	Activity Planner, Version 4.2.1	4.2.1-APM-FP05
CCMFP5.IND	Change Manager, Version 4.2.1	4.2.1-CCM-FP05
TRMFP5.IND	Resource Manager, Version 4.2.1	4.2.1-TRMSRV-FP05
WEBUIFP5.IND	Web Interface, Version 4.2.1	4.2.1-WEB-FP05
DQYFP5.IND	Directory Query, Version 4.2.1	4.2.1-DQY-FP05
PMFP5.IND	Pristine Manager, Version 4.2.1	4.2.1-PMSRV-FP05
PMGWFP5.IND	Pristine Manager Gateway, Version 4.2.1	4.2.1-PMGW-FP05

Table 55. IND files for components (continued)

IND file	Component name	Tag
SWDFR01.IND	Software Distribution, Version 4.2.1 [fr] French Language Support	4.2.1-SWD_fr-0001

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 8.

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 33
- "Software Distribution server command" on page 34
- "Software Distribution disconnected command" on page 34

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 56. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_APM_GUI_Fix.v4.2.1.FP05		
DSWIN_DIR	$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_CCM_GUI_Fix.v4.2.1.FP05		
DSWIN_DIR	$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_SWDEP_PC_Fix.v4.2.1.FP05		
target_dir	$(product_dir)\speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
SPE_GUI	YES	Enables you to update the Software Package Editor GUI.
Tivoli_SWDEP_NW_Fix.v4.2.1.FP05		
target_dir	$(product_dir)\SD42CLI	
Tivoli_SWDEP_OS2_Fix.v4.2.1.FP05		
package_type	ALL	
target_dir	$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_UNIX_Fix.v4.2.1.FP05		
target_dir	$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where the JRE 1.3 is installed.
SPE_GUI	YES	Enables you to update the Software Package Editor GUI.
Tivoli_SWDEP_NTAS400_Fix.v4.2.1.FP05		
target_dir	$(product_dir)\speditoras400	The directory where the Software Package Editor for AS/400® is installed.
TME_JAVATOOLS	$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_SWDEP_400PS_Fix.v4.2.1.FP05 **Note:** This package has to be installed on the AS/400 system to which the user wants to connect through Software Package Editor for AS/400.		
Tivoli_WebUI_Fix.v4.2.1.FP05		
package_type	ALL	
target_dir	$(product_dir)\speditor	

Table 56. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
Tivoli_WebUI_L10N_Fix.v4.2.1.FP05		
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.FP05		
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.FP05		
LCFROOT	/opt/Tivoli/lcf	The LCFROOT of the endpoint.
WebSrvHomeDir	/opt/IBMHTTPD	The path to the home directory for the Web server.
Tivoli_Web_Gateway_SRV_Fix.v4.2.1.FP04		
DMS.Destination	/usr/TivTwg	The path where the Tivoli Web Gateway is installed.
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 5 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 5CD (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 5 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 57.

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 57 contains the names of the fix pack 5 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 57. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_APM_GUI_Fix.v4.2.1.FP05.spb	Tivoli_APM_GUI_Fix.v4.2.1.FP05
Tivoli_CCM_GUI_Fix.v4.2.1.FP05.spb	Tivoli_CCM_GUI_Fix.v4.2.1.FP05
Tivoli_SWDEP_$(interp)_Fix.v4.2.1.FP05.spb	Tivoli_SWDEP_$(interp)_Fix.v4.2.1.FP05
Tivoli_SWDEP_NTAS400_Fix.v4.2.1.FP05.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.1.FP05
Tivoli_SWDEP_400PS_Fix.v4.2.1.FP05.spb	Tivoli_SWDEP_400PS_Fix.v4.2.1.FP05
Tivoli_WebUI_4.2.1.spb	Tivoli_WebUI.4.2.1
Tivoli_WebUI_Fix.v4.2.1.FP05.spb	Tivoli_WebUI_Fix.v4.2.1.FP05
Tivoli_WebUI_L10N.4.2.1.spb	Tivoli_WebUI_L10N.4.2.1
Tivoli_WebUI_L10N_Fix.v4.2.1.FP05.spb	Tivoli_WebUI_L10N_Fix.v4.2.1.FP05
Tivoli_SWD_WebUI_plugin_4.2.1.spb	Tivoli_SWD_WebUI_plugin_4.2.1
Tivoli_SWD_WebUI_plugin_Fix.v4.2.1.FP05.spb	Tivoli_SWD_WebUI_plugin_Fix.v4.2.1.FP05
Tivoli_INV_WebUI_plugin_Fix.v4.2.1.FP05.spb	Tivoli_INV_WebUI_plugin_Fix.v4.2.1.FP05

Table 57. Names of SPB files and software profiles (continued)

SPB Files	Package name with Version
Tivoli_Web_Gateway_SRV_Fix.v4.2.1.FP03.spb	Tivoli_Web_Gateway_SRV_Fix.v4.2.1.FP03
Tivoli_MD2GUI_Fix.v4.1.1.FP02.spb	Tivoli_MD2GUI_Fix.v4.1.1.FP02

Note: If you are installing the WebUI SPB components using 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.

Note: The Web Gateway software package has not been modified after fix pack 3. It is used only to enable the Pocket PC device agent feature.

For more details, see "Pocket PC device agent".

Updating the inventory signatures

The latest software signatures are packaged in fix pack 4.2.1-INV-FP05. 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 need to update the Inventory schema.

This fix pack installation places files named inv_*db_vendor*_421_FP05.sql and h_inv_*db_vendor*_421_FP05.sql on the managed nodes where the patch is installed, in the following directory:

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

where *db_vendor* is the shortname for the database.

If you have already installed and configured the previous fix packs, you do not need to run the inv_db_vendor_421_FP0*x*.sql and h_inv_db_vendor_421_FP0*x*.sql (where *x* = 1, 2, 3, or 4) scripts again.

For instance, if you use DB2 and install this fix pack over a 4.2.1 GA Version you need to run the following scripts:

- inv_db2_421_FP01.sql
- inv_db2_421_FP02.sql
- inv_db2_421_FP03.sql
- inv_db2_421_FP04.sql

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

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

Notes:

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

2. When you run the `inv_db2_mvs_custom_421_FP03.sql` script the `alter table NATIV_SWARE alter column PACKAGE_NAME set data type varchar(128)` instruction might not alter the `NATIV_SWARE` table. To avoid this problem you must perform the following steps:

   a. Backup the table and the related views

   b. Delete the table and all related views

   c. Recreate table and related views

Upgrading plug-ins

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

Activity Planner

If you have installed 4.2.1-APM-FP05, 4.2.1-SWDSRV-FP05, and 4.2.1-INV-FP05, run the following scripts located in the `$BINDIR/TME/APM/SCRIPTS` directory. You need the APM_Admin Tivoli region authorization role to run them.

- sh reg_swd_plugin.sh -r
- sh reg_inv_plugin.sh -r
- sh reg_tl_plugin.sh -r

The first script enables the Activity Planner for Software Distribution, the second script enables the Activity Planner for Inventory, while the third script enables the Activity Planner for the Task Library. Run the `wstopapm` and `wstartapm` commands.

Change Manager

If you have installed 4.2.1-CCM-FP05, 4.2.1-SWDSRV-FP05, and 4.2.1-INV-FP05, run the following scripts located in the `$BINDIR/TME/CCM/SCRIPTS` directory. You need the CCM_Admin Tivoli region authorization role to run them.

- sh reg_swd_plugin.sh -r
- sh reg_invscan_plugin.sh -r

Implementing the concurrent login feature

This section explains how to install, configure, and use the concurrent login feature to prevent the end user from logging in to the workstation during critical distributions.

If you have already installed and configured this feature with fix pack 3 or later, do not read the following sections.

Installing the concurrent login feature

Before you can install this feature, you must have installed Software Distribution and Activity Planner, as described in *IBM Tivoli Configuration Manager: Planning and Installation Guide*.

The **4.1.1-TMF-0044** or later Tivoli Framework patch must also be installed on the Tivoli server and gateways.

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

1. Install the **4.2.1-SWDSRV-FP05** Software Distribution server patch to update the Software Distribution command line and GUI.
2. Install the **4.2.1-SWDGW-FP05** Software Distribution gateway patch to update Windows endpoints.
3. Install the **4.2.1-APM-FP05** Activity Planner patch to update the Activity Planner GUI.
4. Upgrade the Activity Planner plug-ins.
5. Distribute the **Tivoli_login_control_4.2.1.spb** software packages to the endpoints.
6. Type the following command to enable the feature on the specified endpoint:

   ```
   wep endpoint_name set allow_distribution_control on
   ```

   where:

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

   Repeat the command for each endpoint where the feature is to be enabled.
7. Download the wdepcem.exe file from the /LoginControl folder on CD 2 to the endpoints.

Configuring the concurrent login feature

After installing the concurrent login feature as described in "Installing the concurrent login feature" on page 36, you can configure the registry keys created on the endpoints by the **Tivoli_login_control_4.2.1.spb** software package.

The registry keys are created in the following locations within the Registry Editor:
- HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification
- HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification\upcall
- HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification\wmansd

To view and edit the registry keys, use the **wdepcem** command. For more information on this command, see "wdepcem" on page 42.

The following is a list of all the registry keys created on the endpoints:

Keys located in HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\ SWDnotification

IsEnabled
> Specifies whether the concurrent login feature is enabled. Supported values are **1**, which means that the feature is enabled, and **0**, which means that the feature is disabled. The default value is **1**.

TraceLevel
> Specifies the tracing level. Supported values are as follows:

> **0**   Traces are disabled. This is the default value.

> **1**   Standard tracing is enabled.

> **2**   Verbose tracing is enabled.

TracePath

Specifies the full path and name of the trace files. The default value is: $(system_drive)\SWDnotification.log.

DenyPopupEnabled

Specifies whether a message must be displayed on the endpoint to notify the user that login is temporarily disabled. Supported values are **1**, which means that the dialog is displayed, and **0** which means that the dialog is not displayed. The default value is **1**.

PopUpTimeout

Specifies how many seconds the message must be displayed on the endpoint if you set the **DenyPopupEnabled** key to **1**. The default value is **10**.

LoginDeniedTitle

Defines the title of the dialog box displayed on the endpoint if you set the **DenyPopupEnabled** key to **1**. The default value is SWDNotification.

LoginDeniedMsg

Defines the text contained in the dialog box displayed on the endpoint if you set the **DenyPopupEnabled** key to **1**. When customizing the message, you can use the \r\n symbols for inserting a carriage return. The default value is: "Distribution in progress\r\nLogon temporarily disabled."

DenyLogonOnPauseError

Specifies whether the user is allowed to log in to the workstation if an error occurs during an attempt to pause the distribution. Supported values are **1**, which means the user is not allowed to log in, and **0**, which means the user is allowed to log in. The default value is **1**.

LoginDeniedMsgOnPauseError

Defines the text contained in the dialog box displayed on the endpoint if the distribution cannot be paused and you set the **DenyLogonOnPauseError** key to **1**. When customizing the message, you can use the \r\n symbols for inserting a carriage return and the $(DIST_ID) variable which is replaced at run time with the distribution ID. The default value is: " The pause failed for distribution $(DIST_ID)\r\n Contact system administrator."

SwitchPopupDesktop

Specifies whether the message displayed on the endpoint if you set the **DenyPopupEnabled** key to **1**, must be shown on a new Windows desktop. Supported values are **0**, which means the default Windows desktop is used, and **1**, which means a new Windows desktop is used. The default value is **1**.

LogoffType

Specifies which type of logoff must be performed. Supported values are as follows

0   Performs a standard logoff. This is the default value.

1   Performs a forced log off ending all active processes.

2   Performs a logoff ending active and hung processes.

DefaultShutdownAllowdBeforeReset

Defines the number of shutdown operations after which the user is allowed to log in again. This key prevents the user from being irrecoverably logged out of the workstation. The default value is **20**.

CompletionPopupEnabled
Specifies whether a message is displayed on the endpoint to notify the user that the distribution has completed and login is allowed. Supported values are **0**, which means the message is not displayed, and **1**, which means the message is displayed.

CompletionProgramPath
Specifies the path to the application that manages the message to be displayed if you set the **CompletionPopupEnabled** to **1**. Use this key if you modified the path where wcompmsg.exe is installed or if you want to use a different application for managing the message.

CompletionPopupTitle
Defines the title of the dialog box displayed on the endpoint if you set the **CompletionPopupEnabled** key to **1**. The default value is SWDNotification.

CompletionPopupMsg
Defines the text contained in the dialog box displayed on the endpoint if you set the **CompletionPopupEnabled** key to **1**. When customizing the message, you can use the \n symbol for inserting a carriage return. The default value is: "Distribution complete\nLogon is now permitted."

ShutdownPopupEnabled
Specifies whether a message is displayed when you attempt to perform a shutdown during a distribution for which shutdown has been disabled. You must choose between performing a logoff immediately, performing a restart immediately, or performing a logoff immediately and subsequently a shutdown when the distribution completes. See also LogoffShutdownString. Supported values are **0**, which means the message is not displayed, and **1**, which means the message is displayed. The default value is **1**.

ShutdownPopupMsg
Defines the text contained in the dialog box displayed on the endpoint if you set the **ShutdownPopupEnabled** key to **1**. When customizing the message, you can use the \n symbol for inserting a carriage return. The default value is: "The machine will shut down when the distribution completes."

Keys located in HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\ SWDnotification\upcall

LCF_BINDIR
Is the fully qualified path to the LCF_BINDIR.

LCF_CACHEDIR
Is the fully qualified path to the LCF_CACHEDIR.

LCF_DATDIR
Is the fully qualified path to the LCF_DATDIR.

UpcallProgram
Is the fully qualified path to the application which communicates with the gateway.

UpcallTimeout
Specifies the timeout in seconds for communicating with the gateway. The default value is **120** seconds.

Keys located in HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\ SWDnotification\wmansd

Title   Defines the title of the dialog box displayed on the endpoint if you set the **ShutdownPopupEnabled** key to **1** and the user attempts to perform a shutdown during a distribution for which shutdown has been disabled. The default value is SWDNotification.

Message
> Defines the message contained in the dialog box displayed on the endpoint if you set the **ShutdownPopupEnabled** key to **1** and the user attempts to perform a shutdown during a distribution for which shutdown has been disabled. When customizing the message, you can use the \n symbol for inserting a carriage return. The default value is: "Please choose one of the following."

Timeout
> Specifies a timeout in seconds for choosing between a logoff, a restart, and a logoff and shutdown. If you set the timeout to **0**, the message is not displayed and the default action is performed. Otherwise, the default action is performed after the timeout expires. For more information on the default action, see DefaultAction. The default value is **0**.

LogoffString
> Defines the first option displayed in the message to request whether a logoff should be performed. If you select this option, a logoff is performed immediately. The default value is "Logoff".

LogoffShutdownString
> Defines the second option displayed in the message to request whether a logoff and a shutdown should be performed. If you select this option, a logoff is performed immediately and a shutdown is performed when the distribution completes. The default value is "Logoff and shutdown when complete".

RestartString
> Defines the third option displayed in the shutdown message to request whether a restart should be performed. If you select this option, a restart is performed immediately. The default value is "Restart".

DefaultAction
> Specifies the default action to be performed when the timeout expires or is set to **0**. Supported values are as follows:
>
> **1**   Performs a logoff immediately.
>
> **2**   Performs a logoff immediately and a shutdown when the distribution completes. This is the default value.
>
> **3**   Performs a restart immediately.

LeftLogonPopupEnabled
> Specifies whether a message must be displayed on the endpoint listing the number of logins allowed on the workstation. You can define this key when limited logins are allowed during the distribution. If an error occurs and the distribution cannot be paused, the message is not displayed. Supported values are **0**, which means the message is not displayed, and **1**, which means the message is displayed. The default value is **1**.

LeftLogonPopupMsg
> Defines the message contained in the dialog box displayed on the endpoint if you set the **LeftLogonPopupEnabled** key to **1**. When customizing the message, you can use the \n symbol for inserting a carriage return and the $(LEFT_LOGON) variable which is replaced at run time with the number

of allowed logins. The default value is: "The current distribution has been paused\nYou can logon $(LEFT_LOGON) times."

wdepcem

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

Syntax

wdepcem [**-r** | **-g** *property* | **-s** *property*]

Options

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

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

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

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

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

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

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

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

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

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

> **-x** *level* Specifies the tracing level. Supported values are as follows:

0	Traces are disabled. This is the default value.
1	Standard tracing is enabled.
2	Verbose tracing is enabled.

-y *pathname*

Specifies the full path and name of the trace files. The default value is: $(system_drive)\SWDnotification.log.

-s [true | false]

Specifies whether the message displayed on the endpoint if you set the **-p** option to **true**, must be shown on a new Windows desktop. Supported values are **true**, which means a new Windows desktop is used, and **false**, which means the default desktop is used. The default value is **true**.

-d *max_shutdowns*

Defines the number of shutdown operations after which the user is allowed to log in again. This key prevents the user from being irrecoverably logged out of the workstation. The default value is **20**.

-o [0 | 1 | 2]

Specifies which type of logoff must be performed. Supported values are as follows:

0	Performs a standard logoff. This is the default value.
1	Performs a forced logoff ending all active processes.
2	Performs a logoff ending also hung processes.

-c [true | false]

Specifies whether a message is displayed on the endpoint to notify the user that the distribution has completed and login is allowed. Supported values are **true**, which means the message is displayed, and **false**, which means the message is not displayed. The default value is **true**.

-b *pathname*

Specifies the path to the application that manages the message to be displayed if you set the **-c** option to **true**. Use this key if you modified the path where wcompmsg.exe is installed or if you want to use a different application for managing the message.

-u *popup_title*

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

-v *popup_msg*

Defines the text contained in the dialog box displayed on the endpoint if you set the **-c** option to **true**. When customizing the message, you can use the \r\n symbols for inserting a carriage return. The default value is: "Distribution complete\nLogon is now permitted."

-w [true | false]

Specifies whether a message is displayed when you attempt to perform a shutdown during a distribution for which shutdown has been disabled. You must choose between performing a logoff immediately, performing a restart immediately, or performing a logoff immediately and subsequently a shutdown when the

distribution completes. See also the - H option. Supported values are **true**, which means the message is displayed, and **false**, which means the message is not displayed. The default value is **true**.

-z *shut_popup_msg*
Defines the text contained in the dialog box displayed on the endpoint if you set the **-w** option to **true**. When customizing the message, you can use the \n symbol for inserting a carriage return. The default value is: ″The machine will shut down when the distribution completes.″

-B *pathname*
Specifies the fully qualified path to the LCF_BINDIR.

-C *pathname*
Specifies the fully qualified path to the LCF_CACHEDIR.

-D *pathname*
Specifies the fully qualified path to the LCF_DATDIR.

-U *pathname*
Specifies the fully qualified path to the application which communicates with the gateway.

-W *timeout*
Specifies the timeout in seconds for communicating with the gateway. The default value is **120** seconds.

-E *popup_title*
Defines the title of the dialog box displayed on the endpoint if you set the **-w** option to **true** and the user attempts to perform a shutdown during a distribution for which shutdown has been disabled. The default value is SWDNotification.

-F *popup_msg*
Defines the message contained in the dialog box displayed on the endpoint if you set the **-w** option to **true** and the user attempts to perform a shutdown during a distribution for which shutdown has been disabled. When customizing the message, you can use the \n symbol for inserting a carriage return. The default value is: ″Please choose one of the following″

-G *timeout*
Specifies a timeout in seconds for choosing between a logoff, a restart, and a logoff and shutdown. If you set the timeout to **0**, the message is not displayed and the default action is performed. After the timeout expires, the default action is performed. For more information on the default action, see the -J option. The default value is **0**.

-T *logoff_str*
Defines the first option displayed in the message to request whether a logoff should be performed. If you select this option, a logoff is performed immediately. The default value is ″Logoff″.

-H *logoff_and_shut*
Defines the second option displayed in the message to request whether a logoff and a shutdown should be performed. If you select this option, a logoff is performed immediately and a shutdown is performed when the distribution completes. The default value is ″Logoff & shutdown when complete″.

-K *restart_str*

Defines the third option displayed in the shutdown message to request whether a restart should be performed. If you select this option, a restart is performed immediately. The default value is "Restart".

-J [1 | 2 | 3]

Specifies the default action to be performed when the timeout expires or is set to 0. Supported values are as follows:

1   Performs a logoff immediately.

2   Performs a logoff immediately and a shutdown when the distribution completes. This is the default value.

3   Performs a restart immediately.

-P [true | false]

Specifies whether a message must be displayed on the endpoint listing the number of logins allowed on the workstation. You can define this key when limited logins are allowed during the distribution. Supported values are **true**, which means the message is displayed, and **false**, which means the message is not displayed. The default value is **true**.

-Q *message*

Defines the message contained in the dialog box displayed on the endpoint if you set the **-P** option to **1**. When customizing the message, you can use the \n symbol for inserting a carriage return and the $(LEFT_LOGON) variable which is replaced at run time with the number of allowed logins. The default value is: "The current distribution has been paused\nYou can log on $(LEFT_LOGON) times."

Return Values

The **wdepcem** command returns one of the following:

0   Indicates that **wdepcem** completed successfully.

other than zero

Indicates that **wdepcem** failed due to an error.

Examples

1. To display the value set for the **-p** option, type the following command:

   ```
   wdepcem -g p
   ```

2. To set the default action to be performed when the timeout expires so that an immediate logoff is performed, type the following command:

   ```
   wdepcem -s J 1
   ```

Using the concurrent login feature

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

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

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

- waccpst
- wcommtsp
- winstsp
- wspmvdata
- wremovsp
- wundosp

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

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

-Y *max_login_allowed*

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

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

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

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

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

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

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

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

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

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

Documentation notes

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

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 IY78490**

  In Chapter 3 "Creating Packages Using the Software Package Editor", in the section "Setting Properties on the Package", in the subsection "Endpoint Options", add the following text after the first sentence of the section: "The before program is not run on the endpoint, if you are installing the software package from a disconnected Command Line Interface".

- **Defect 56456**

  Use the GUI to open the "Distribution Settings" panel. A new deadline check box is present to enable and disable the deadline overwriting.

- **Defect 55922**

  At the moment there is no way to force a hard reboot for a machine if the shutdown operation is performed by the resinit. A new key resinit_reboot_forced could be specified in the swdis.ini file on the endpoint machine to decide if the shutdown should be soft/hard. By default it is set to false (soft reboot). The swdis.ini should contain an entry of type: resinit_reboot_forced=yes to force a hard reboot.

Reference Manual for Software Distribution

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

- **APAR IY78490**

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

User's Guide for Deployment Services

No changes are required for the *IBM Tivoli Configuration Manager: User's Guide for Deployment Services*.

Release Notes

The following information changes apply to Release Notes.

In *Problems and workaround* section, add the following information at the end of the *Inventory* sub-section:

APAR IY82474:

- When you run the `inv_db2_mvs_custom_421_FP03.sql` script the `alter table NATIV_SWARE alter column PACKAGE_NAME set data type varchar(128)` instruction might not alter the NATIV_SWARE table. To avoid this problem you must perform the following steps:
  1. Backup the NATIV_SWARE table and the related views.
  2. Delete the NATIV_SWARE table and the related views.
  3. Recreate NATIV_SWARE table and the related views.
  4. Restore the data into the NATIV_SWARE table.
- If the table LAST_SIG_UPDATE is not updated with the SQL statement: `insert into LAST_SIG_UPDATE (UPDATE_TABLE, LAST_UPDATE) values ('5', 6)`, the Inventory software scan may not insert data into the DB2 database on MVS.

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:

User's Guide for Software Distribution

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

- **APAR IY76694**

  In Chapter 15 "Troubleshooting", in the section "Base Configuration Information on the Endpoint", add to Table 17 "Directory assignments in swdis.ini file" the key: "resinit_reboot_forced" and its description: Identifies the resinit behavior on the endpoint, in case a reboot is needed. If you change the default value resinit_reboot_forced=n and set it to y, you specify a hard reboot of the machine."

- **APAR IY77361**

  In Chapter 6 "Embedding Native Objects into a Software Package", in the section "Using Dialogs to Embed or Edit an HP-UX Package", replace the bullet number four with the following text: "In the HP-UX Source Depot path text box, type the absolute path of the HP-UX package. In the **HP-UX Source Depot File Name** specify the file name of the HP-UX software depot, if the images to be installed are stored in a single file."

- **APAR IY78490**

  In chapter 9 "Preparing a Software Package for Distribution", in the section "Change Management Operations", subsection "Overwriting Default Variables" the second paragraph has to be replaced with the following text: "When you subsequently remove a software package, you can define or override only those variables that were not resolved when the package was installed or those variables that are left unresolved for future remove operations, even though they were resolved during the package installation. If these variables are not overwritten after the package installation, they maintain the values used during the installation".

- **APAR IY82439**

  Changes are required to pre-existing scripts that format or scrape the SoftwarePackage log files to extract or summarize failure information for the execution of programs within packages. You must modify the existing the log scraper or log file formatter scripts to search and sort on error message : DISSE0197E for failed execute program actions, instead of former message : DISSE0442I.

Reference Manual for Software Distribution

No changes are required for the *Reference Manual for Software Distribution*.

User's Guide for Deployment Services

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

- **APAR IY75060**

  In Chapter 4 "Troubleshooting", in the section "Activity Planner Core Trace", add the following information: "The APM_RPC_MAX_THREADS environment variable has been added to the APM_core process. This variable sets the maximum number of concurrent remote procedure call threads handled by the dispatcher. The default value is 250."

User's Guide for Inventory

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

- **APAR IY81403**

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

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

  This error can cause a decrease in performance.

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 previous fix packs.

User's Guide for Software Distribution

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

- **APAR IY74801**

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

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

- **APAR IY52831**

  In Chapter 9. "Preparing a Software Package Distribution", section "Executing Change Management Operations", subsection "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.

- 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, WARNING, HARMLESS, or UNKNOWN.
- **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 the same or later than the date of the same file in the package. If the date of the file is older than 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 IY53218**

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

  Cloning software packages from the Tivoli desktop

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

  To clone a software package from one profile manager to another, perform the following steps:
  1. From the Tivoli desktop, open the profile manager containing the software package you want to clone.
  2. Select the software package you want to clone.
  3. Select **Profiles/Clone** in the **Edit** menu. The Clone Profile dialog is displayed.
  4. In the **Name/Icon Label** type a name for the cloned software package.
  5. Select a profile manager in the **Clone to Profile Manager** list.
  6. Click **Clone and Close**. The selected software package is cloned to the specified profile manager.

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

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

– On Windows operating systems, drag and drop the software package to the destination profile manager.

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

- **APAR IY53753**

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

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

Reference Manual for Software Distribution

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

- **Defect 51869**

  In Chapter 2 ″Performing Change Management Operations″, in the section ″Editing the Software Package Definition File″, subsection 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.

- **APAR IY52831**

  In Chapter 2 ″Performing Change Management Operations″, section ″Types of Change Management Operations″, subsection ″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 the same or later than the date of the same file in the package. If the date of the file is older than 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 IY42647**

  In Chapter 3 ″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**
  – **wsetsps**
  – **wspmvdata**
  – **wswdmgr**
  – **wsyncsp**
  – **wuldsp**

- **wundosp**
- **wversp**
- 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.

- **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 if user programs are 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 "Using Commands", in the description of the **wspmvdata** command add the following paragraph after the list in the Description section:

  In the data moving architecture, data is 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, instead, 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.

- **Defect 51714**

  In Chapter 3 "Using Commands", in the 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 **wlsconn** 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.

• **Defect 51714**

In Chapter 3 ″Using Commands″, in the 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 less 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.

• In Chapter 4 ″Managing Policy″, in the section ″Policy Methods″, subsection ″sp_val_operation″, add the following two bullet points to the beginning of the Options list:

– send

– receive

• **APAR IY62398**

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

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

• **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 the same or later than the date of the same file in the package. If the

date of the file is older than 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.

- **Defect 51869**

  In Chapter 1 ″Editing the Software Package Definition File″, 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:

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

- **Feature 54613**

  In Chapter 3 ″Using Commands″, add the text below to the following commands:
  - waccpst
  - wcommtsp
  - winstsp
  - wspmvdata
  - wremovsp
  - wundosp

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

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

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

- **APAR IY66515**

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

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

  – If you use Activity Planner, the maximum length of the string is 128 characters. It includes name, delimiter, version (64 characters), and #region name.

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

- **APAR IY72490**

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

  wdlssp

  wdlssp -b and add the following description in the **Options** section:

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

User's Guide for Deployment Services

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

- **APAR IY74288**

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

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

  -u *user@hostname.domain*
          Enables you to save filters or set default filters when you have the APM_View role.

- **APAR IY75060**

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

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

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

- **APAR IY65042**

  In Chapter 2 ″Performing Activity Planner Operations″, in the 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.

- **APAR IY62379**

  In Chapter 2 ″Performing Activity Planner Operations″, in the 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, and the Complete not after time expires, all activities are cancelled 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 cancelled, 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, and the compl_not_after time time expires, all activities are cancelled 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 cancelled, 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, and the compl_not_after time time expires, all activities are cancelled with the exception of Tivoli Framework tasks and Software Distribution operations addressed to devices or users.

- In Chapter 2 "Performing Activity Planner Operations", in the 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.

- **Defect 49765**

  In Chapter 7 "Using the Command Line", in the 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.

- **APAR IY62930**

  In Chapter 13 "Administering the Web Interface", in the section "Monitoring the Results of Operations", add the following text before the table:

  The software packages distributed using Software Distribution are tracked in the Inventory database by the endpoint label, while the software packages distributed using the Web Interface are tracked by the workstation hostname. This can lead to a misalignment of information in the Inventory database if you

install an endpoint on the Web Interface client workstation and distribute software packages to this workstation using Software Distribution.

To avoid this problem, you should install the endpoint with the same name as the workstation hostname or, if the endpoint is already installed, change its name to match the workstation hostname.

In the "Troubleshooting" section in the same chapter, add the following entry after the last entry in the Administrator on the Tivoli server section:

Information concerning software packages installed on a Web Interface client is inconsistent when an endpoint is installed on the same workstation.

The software packages distributed using Software Distribution are tracked in the Inventory database by the endpoint label, while the software packages distributed using the Web Interface are tracked by the workstation hostname. This can lead to a misalignment of information in the Inventory database if you install an endpoint on the Web Interface client workstation and distribute software packages to this workstation using Software Distribution.

To avoid this problem, you should install the endpoint with the same name as the workstation hostname or, if the endpoint is already installed, change its name to match the workstation hostname.

- **APAR IY65042**

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

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

- **APAR IY65552**

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

  Error messages are truncated
  > If error messages are longer than 250 characters, they are truncated. To solve this problem, add the
  >
  > ```
  > max_error_info_size
  > ```
  >
  > keyword in the DEFAULT section of the apm.ini file and enlarge the ERROR_INFO column in the ACT_STATUS_TGT table to the same value defined for the
  >
  > ```
  > max_error_info_size
  > ```
  >
  > keyword. The maximum size for this column depends on the database you are using.

- **APAR IY70370**

  In Chapter 3 "Using the Command Line" in Table 2 "Sub-elements that define the activity plan", in the row `targets_computation` the following information should be added:

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

  In Chapter 3 "Using the Command Line" in Table 3 "Sub-elements that define frequency information", in the row `targets_resolution` the following information should be added:

If the targets resolution (targets_computation=a) is at activity execution, the targets are evaluated when the activity starts.

Planning and Installation

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

- **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 58. 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	• 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	• 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	• 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	• 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	• 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.

Table 58. Server Component Prerequisites (continued)

Component	Software to be installed as prerequisite
Enterprise Directory Query Facility	• 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	• 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
Software Package Editor	• 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 59. Web Gateway Component Prerequisites

Component	Software to be installed as prerequisite
Web Gateway database	DB2
Web Gateway server	• 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	• 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 60. Desktop Component Prerequisites

Component	Software to be installed as prerequisite
Tivoli Desktop for Windows	None
Java components	None
Activity Planner GUI	Java components

Table 60. Desktop Component Prerequisites (continued)

Component	Software to be installed as prerequisite
Distribution Status console	Java components
Change Manager GUI	Java components
Inventory GUI	Java components
Software Package Editor	• 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.

Messages and Codes

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

In Chapter 8, in the 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.

User's Guide for Inventory

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

• **APAR IY68383**

  In Appendix B, update the usage of the **wepscan** command as follows:
  ```
  wepscan [-d {1 | 2 | 3}] [-s[-l]] [-t mc_upcall_timeout]
  ```

  and add the following parameter to the parameters for command **wepscan**:

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

Release Notes

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

- **APAR IY64238**

  In Chapter 3 "Software limitations, problems, and workarounds" in the section "Software Problems and Workarounds" in the subsection "Web Gateway" the following problem description and workaround should be added after defect 28358:

  APAR IY64238: Repeated attempts to install the IBM Tivoli Configuration Manager Web Gateway on Windows 2000 Advanced Server dual processor workstations might cause the installation process to stop abruptly.

  Workaround: Install the IBM Tivoli Configuration Manager Web Gateway component using an alternate installation method, such as the software package block or silent installation methods. For more information on these methods, refer to IBM Tivoli Configuration Manager Planning and Installation Guide.

- **APAR IY70318**

  In Chapter 3 "Software limitations, problems, and workarounds" in the section "Software Problems and Workarounds" in the subsection "Change Manager" the following problem description and workaround should be added:

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

  Workaround: You should change the collate to `SQL_Latin1_General_CP1_CI_AS` and the primary language of the user owning the Change Manager tables should be set to English.

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:

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_mdist2_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.

- **APAR IY57467**

  In Chapter 3 "Using the command line", in the 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", in the 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.

- **APAR IY53753**

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

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

- **APAR IY57685**

  In Chapter 12 "Integrating the Tivoli Enterprise Console", section "The tecad_sd.conf File", subsection "RetryInterval", change the sentence: "The default interval is 120 seconds." to read "The default is 1 second."

- **APAR IY58372**

  In Chapter 9 "Preparing a Software Package for Distribution", section "Change Management Operations", subsection "Installing the Appsample^1.0 Software Package", add the following note to the end of Step 5:

  Note: If you build packages on the source host system with a specific code set, you cannot perform a delta installation using another source host system with a different code set.

- **APAR IY58534**

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

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

- **APAR IY59300**

  In Chapter 9, "Preparing a Software Package for Distribution", section "Change Management Operations", subsection "Installing the Appsample^1.0 Software Package", step 5, add the following note after the first sentence:

  Note: For UNIX source hosts, directory and file name checks are case-sensitive, so the base and the version packages must use the same case.

- **APAR IY59478**

  Chapter 9, "Preparing a Software Package for Distribution", section "Change Management Operations", subsection "Installing the Appsample^1.0 Software Package", add the following sentence after the fourth sentence in step 5:

  In addition, if the base and the version packages use the same file in the same directory, the packages must be in software package block (built) format, otherwise the whole file is distributed. Byte-level differencing uses dependency checking to verify if the base package has been installed on the target.

- **APAR IY60532**

  Chapter 13, add the following text at the end of the section "Monitoring the Results of Operations": For software packages containing restart actions, the report containing the result of the distribution is sent to the Tivoli server after a second operation is performed on the target.

- **APAR IY66261**

  In Chapter 1 "Overview of Software Distribution", in the section "Software Distribution Highlights", modify the Source and repair functionality item description as follows:

  The repair functionality identifies which source and target objects have been modified or corrupted since the last successful installation of a software package, and rebuilds the software package with only these objects rather than installing the entire package again. The submission of a repair operation might take a long time if the check of objects modified or corrupted is run for a large number of endpoints.

- **APAR IY70834**

  In Chapter 12 "Integrating the Tivoli Enterprise Console", in the table "Software Distribution Tivoli Enterprise Console events" the description of the event `SD_Operation_Failed` should be modified as follows:

  By default, severity = FATAL and sub_source = swdist. You can change the severity level to all levels allowed by Tivoli Enterprise Console: CRITICAL, MINOR, WARNING, HARMLESS, or UNKNOWN.

Reference Manual for Software Distribution

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

- **APAR IY66515**

In Chapter 1 "Editing the Software Package Definition File", in the section "Software Package Name and Version", add the following sentence after the first list:

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

If you use Activity Planner, the maximum length of the string must be 128 characters. It includes name, delimiter, version (64 characters), and #region name.

If you do not use Activity Planner, the maximum length of the string must be 230 characters. It includes name, delimiter, and version (64 characters).

- **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.

- **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.

- **APAR IY58502**

  Make the following change to the Reference Manual for Software Distribution:
  - In Chapter 3, "Using Commands", add the following text:

    In the section "Server Commands", subsection "wsetsps", add the text "(not in Transactional mode)" to the command description so that it reads:

    "Only the following operations are available:
    - Remove software package (not in Transactional mode)
    - Force install software package
  - In Chapter 3, "Using Commands", add the following text:

    In the section "Disconnected Target Commands", subsection "wdsetsps", add the text "(not in Transactional mode)" to the command description so that it reads:

    "Only the following operations are available:
    - Remove software package (not in Transactional mode)
    - Force install software package

- **APAR IY59478**
  - In Chapter 2, "Understanding CM Operations", section "Byte-level Differencing", subsection "How Software Distribution Uses Byte-level Differencing", change the paragraph from:

    To apply the delta installation, the base and the version packages must have the same nested structure. The above operation is performed on the source host and generates a delta package that is sent to the target.

    to:

    To apply the delta installation, the base and the version packages must have the same nested structure. In addition, if the base and the version packages use the same file in the same directory, the packages must be in software package block (built) format, otherwise the whole file is distributed. The above operation is performed on the source host and generates a delta package that is sent to the target.
  - In Chapter 3, "Using Commands", section "Server Commands", subsection "winstsp", change the text in the explanation of **-d** *spobj_name* from:

    To apply the delta installation, the base and the version packages must have the same nested structure. Byte-level differencing uses dependency checking to verify that the base package has been installed.

    to:

    To apply the delta installation, the base and the version packages must have the same nested structure. In addition, if the base and the version packages use the same file in the same directory, the packages must be in software package block (built) format, otherwise the whole file is distributed. Byte-level differencing uses dependency checking to verify that the base package has been installed.
  - **APAR IY60532**
    - Chapter 2, section Commit Operation, add the following text after the description of the `in-a-reboot` option:

If you perform a transactional installation and select this option from the command line, the report containing the result of the distribution is sent to the Tivoli server after a second operation is performed on the target.

- Chapter 3, replace the description of the **-c** option for the following commands with the text below:
  - wcommtsp
  - winstsp
  - wremovsp
  - wundosp
  - wdcmmtsp
  - wdinstsp
  - wdrmvsp
  - wdundosp

  Specifies the reboot options for the commit operations: n (not-in-a-reboot), which is the default, y (in-a-reboot), o (in-a-reboot), r (auto-reboot). For more information on these options, see Commit Operation.

User's Guide for Deployment Services

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

- **APAR IY66346**

  In Chapter 1 "Using Activity Planner", in the section "Before You Start", modify the sentence:

  ```
  RIM_view or RIM_update role, depending on database operation.
  ```

  as follows:

  ```
  RIM_view and RIM_update roles.
  ```

  In Chapter 1 "Using Activity Planner", in the section "Activity Planner Roles", modify the table "Activity Planner roles and operations" by adding in all the cells of the Required roles column the following roles:

  ```
  RIM_view
  RIM_Update
  ```

- **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.

- **APAR IY62930**

  In Chapter 13, section Monitoring the Results of Operations, add the following information before the table:

  The software packages distributed using Software Distribution are tracked in the Inventory database by the endpoint label, while the software packages distributed using the Web Interface are tracked by the workstation hostname. This condition can lead to a misalignment of information in the Inventory database if you install an endpoint on the Web Interface client workstation and distribute software packages to this workstation using Software Distribution. To avoid this problem, you should install the endpoint with the same name as the workstation hostname or, if the endpoint is already installed, change its name to match the workstation hostname.

  In Chapter 13, section "Troubleshooting", subsection "Administrator on the Tivoli server" add the following problem after the last problem in this section:

  Problem: Information concerning software packages installed on a Web Interface client is not consistent when an endpoint is installed on the same workstation.

    The software packages distributed using Software Distribution are tracked in the Inventory database by the endpoint label, while the software packages distributed using the Web Interface are tracked by the workstation hostname. This condition can lead to a misalignment of information in the Inventory database if you install an endpoint on the Web Interface client workstation and distribute software packages to this workstation using Software Distribution.

    Solution: To avoid this problem, you should install the endpoint with the same name as the workstation hostname or, if the endpoint is already installed, change its name to match the workstation hostname.

- **APAR IY66346**

  In Chapter 1 "Using Activity Planner", in the section "Before You Start", modify the sentence:

  – RIM_view or RIM_update role, depending on database operation.

  as follows:

  – RIM_view and RIM_update roles.

  In Chapter 1. Using Activity Planner, Understanding the Activity Planner Environment sub-section, Table 1. Activity Planner roles and operations, modify the table by adding the RIM_view and RIM_Update roles to all the cells in the **Required Role** column.

- **APAR IY70370**

  In Chapter 2, Table 2 "Subelements that define the activity plan", `targets_computation` row, add the following information:

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

  In Chapter 2 "Using the Command Line", Table 3 "Subelements that define frequency information", `targets_resolution` row, add the following information:

  If the targets resolution is at activity execution (`targets_computation=a`), the targets are evaluated when the activity starts.

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 workaround 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.

- **APAR IY58932**

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

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

  - Windows 2000
  - Windows XP
  - Windows Server 2003

  with the following two paragraphs:

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

To install Tivoli Desktop for Windows on Windows Server 2003, open the Desktop directory on CD 3 of the IBM Tivoli Configuration Manager Desktop CD (cd3\desktop), then run setup.exe. When the Tivoli Desktop installation is complete, you can install components that are provided as SPBs (located in the directory cd3\SPB), using Software Distribution (see the section" Components Installed using Software Package Blocks" for more information).

- **APAR IY71740**

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

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

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

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

User's Guide for Inventory

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

- **Defect 179423**

  In Appendix B "Commands" replace the usage of the `wloadiso` command with the following usage:

  wloadiso [-d { 1 | 2 | 3 }] -f *filename* **| -l** *listfilename*

  and replace the description of the **-f** *DAT file* option with the following two options:

  -f *filename*

  > The name of the .DAT file to be sent to the configuration repository. You can specify more than one .DAT file.

  -l *listfilename*

  > The name of a file containing a list of .DAT files.

- **APAR IY70039**

  In Appendix B "Commands", section "wcollect", replace the description of the `-n` option with the following text:

  -n   Specifies the maximum number of entries that can be added to the data handler and Wan entry Point Collector input and output queue. Supported values range from 100 to 10 000 entries.

- **APAR IY76815**

  In Appendix B "Commands", section "wcancelscan", replace the description of the Authorization sub-section with the following text:

  Super and senior.

- **APAR IY72012**

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

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

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

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

Database Schema Reference

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

- **APAR IY76244**

  In Chapter 5 ″Configuration repository tables″, in the section ″History tables for Inventory″, change the history table name H_INST_NATIVE_SWARE to the following name: H_INST_NATIV_SWARE.

  In Chapter 3 ″Configuration repository views″ remove the following view names: DEV_STATUS_VIEW, H_EXPAND_CARD_VIEW and H_MEM_CARD_VIEW.

  In Chapter 3 ″Configuration repository views″ add the following view name: H_DEV_CARD_VIEW.

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.

- **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.

- **APAR IY69501**

  In the IBM Tivoli Configuration Manager version 4.2.1 Release Notes, Chapter 2 ″Installation and upgrade notes″, in the section ″Web Gateway″, replace the third bullet in the list of Web Gateway server prerequisites with the following text:

  IBM WebSphere Application Server, Advanced Edition 4.0.3 and 4.0.6

- **APAR IY71166**

  In Chapter 3, section ″Software Problems and Workarounds″, sub-section ″Software Distribution″, add the following problem description and workaround:

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

  Workaround: Open Software Package Editor using the Tivoli desktop.

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.

Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785 U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement might not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
2Z4A/101
11400 Burnet Road
Austin, TX 78758 U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurement may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

If you are viewing this information in softcopy form, the photographs and color illustrations might not display.

Trademarks

IBM, the IBM logo, AIX, DB2, IBMLink™, Informix, OS/2®, OS/400, S/390, AS/400, Tivoli, the Tivoli logo, Tivoli Enterprise Console and WebSpere are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both.

Lotus® and Lotus Notes are trademarks of International Business Machines Corporation and Lotus Development Corporation in the United States, other countries, or both.

Intel, the Intel Inside logos, MMX™, and Pentium® are trademarks of Intel Corporation in the United States, other countries, or both.

Microsoft, Windows, and Windows NT® are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Linux is a trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.