

IBM Tivoli Configuration Manager



# Readme File for Fix Pack 6 - PTF U808667

*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 6 (PTF U808667) for version 4, release 2, modification level 1 of IBM Tivoli Configuration Manager (program number 5724-C06).

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# IBM Tivoli Configuration Manager 4.2.1 Readme File for Fix Pack 6 (PTF U808667)

This readme file provides important information about Fix Pack 6 (PTF U808667) 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 *Configuration Manager* components.

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

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## About this release

This section includes the following topics:

- “CD structure”
- “New features” on page 2
- “Backward compatibility issues” on page 5
- “Product compatibility” on page 6
- “Limitations” on page 6
- “Limitations in DBCS environments” on page 6
- “Product fix history” on page 8

## CD structure

IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 6 includes *two* CDs:

*Table 1. IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 6 (CD 1 of 2)*

Directory or path	Contents
/docs	Readme file.
/images/INVENTORY /images/MCOLLECT /images/SWD	Images required for Configuration Manager in this fix pack.
/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 6 (CD 2 of 2)*

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

Table 2. IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 6 (CD 2 of 2) (continued)

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

## New features

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

- “New features in this fix pack”
- “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 mrmmbios.exe file has been now replaced by a 32-bit file having the same name, and using new device drivers. You can use the mrmmbios.exe file to scan new platforms such as AMD 64 and Itanium 64. 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 37 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 6 for APM component (4.2.1-APM-FP06), 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 6 for APM component (4.2.1-APM-FP06) 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 6.

## 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 6 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 6 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-FP06	Inventory, Version 4.2.1
4.2.1-INVGW-FP06	Inventory Gateway, Version 4.2.1
4.1.1-CLL-FP06	Scalable Collection Service, Version 4.1.1
4.2.1-SWDSRV-FP06	Software Distribution, Version 4.2.1
4.2.1-SWDGW-FP06	Software Distribution Gateway, Version 4.2.1
4.2.1-SWDJPS-FP06	Software Package Editor, Version 4.2.1
4.2.1-APM-FP06	Activity Planner, Version 4.2.1
4.2.1-CCM-FP06	Change Manager, Version 4.2.1
4.2.1-TRMSRV-FP06	Resource Manager, Version 4.2.1
4.2.1-WEB-FP06	Web Interface, Version 4.2.1
4.2.1-DQY-FP06	Directory Query, Version 4.2.1
4.2.1-PMSRV-FP06	Pristine Manager, Version 4.2.1
4.2.1-PMGW-FP06	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-FP06				
IY79101	IY82415	IY82838	IY83074	IY83338
IY83381	IY84371	IY84553	IY84708	IY84735
IY85530	IY85784	IY86092	IY86174	IY86231
IY86274	IY86785	IY87283	IY87975	IY89270

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

#### APAR IY79101

##### Abstract:

WCANCELSCAN command roles changing

##### Error Description:

Changing the roles needed for the wcancelscan. Have less powerful roles for wcancelscan (that is, the new roles should be admin and Dist\_control )

#### APAR IY82415

##### Abstract:

Expired inventory activity remains started

##### Error Description:

Expired Inventory activities remain started and therefore the plan does not go on when the user that logs into APM and submits the plan does not have the senior authority and so does not the method ic\_callback  
scollect.log shows :

Feb 09 12:25:02: pid:00012964 tid:01147240

Sending report to APM

Feb 09 12:25:02: pid:00012964 tid:01147240

Sending report to APM failed

||Feb 09 12:25:02: pid:00012964 tid:01147240 FRWSL0007E

An authorization error of type "FRWOG0022E insufficient authorization" occurred Summary of possible error conditions: "insufficient authorization" means that you have insufficient etc....

#### APAR IY82838

##### Abstract:

Inventory is not retrieving data for FCP-attached tape drives

##### Error Description:

Inventory is not retrieving data for FCP-attached tape drives. The tape drive information is in the libInvHW.log when running **wscanner** in debug mode, but, that information is not updated in the tivhscan.mif file.

#### APAR IY83074

##### Abstract:

The 'replace' option does not work in CUSTOM scan if there are no entries to be inserted

##### Error Description:

The replace option should first delete all the entries in the custom table belonging to the endpoint scanned and after inserting the new records. Now, this works fine when there is at least one record to be inserted but does not work when there are no entries to be inserted, that is the old entries are not deleted.

#### APAR IY83338

##### Abstract:

InventoryConfig parameter 'Endpoint timeout' for 4.1 EPs

##### Error Description:

InventoryConfig parameter 'Endpoint timeout' for 4.1 endpoints. A custom scan fails when executed on 4.1 endpoints.

#### APAR IY83381

##### Abstract:

' UNIX SYSTEM PARAMS ' stanza is missing in the TIVHSCAN.MIF file on an 390 SUSE LINUX endpoint : computer alias not provided



**Error Description:**

COMPUTER\_ALIAS not being returned when scanning linux for OS390 - SuSE Linux Endpoint ; the Unix System Params stanza that does provide the alias information is absent: missing the stanza to collect the alias information.

```
Start Group
Name = "UNIX System Params"
Class = "TIVOLI|UNIX System Params|1"
ID = 19
Start Attribute
Name = "Computer Alias"
ID = 4
Type = String(32)
Value = "hostname"
End Attribute
End Group
.
```

**APAR IY84371****Abstract:**

Problem with GUI opening the subscribers window to select target

**Error Description:**

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

**APAR IY84553****Abstract:**

Scans hanging at one gateway collector

**Error Description:**

Scans remain in pending. Running mcollect\_cleanup to clear pending scans on regular basis. Found one gateway is continually crashing. Error repeats in mcollect.log: c:\Tivoli\bin\w32-ix86\TAS\Collector\Collector\_prog1.exe (method:2155-mc\_start, PID:420) exited unexpectedly, status=6 Level3 sent debug module to collect additional information and address problem with "a wrong management of a failure in creating the iom key used to get the data from the endpoint"

**APAR IY84708****Abstract:**

Inventory DATAHANDLER core dump when output queue has a "blank"

**Error Description:**

Inventory DataHandler core dump on "blank ctoc" in Output Queue. wcstat -qo DH shows the malformed ctoc

**APAR IY84735****Abstract:**

"\*" In COMPUTER\_SYS\_ID when guid is shorter than 28 characters

**Error Description:**

Inventory pads the guid string with '\*' if guid size is shorter than 28 characters on windows Endpoint. If f.i. wep command sets a GUID registry entry to 9 characters long.



COMPUTER\_SYS\_ID should not have the remaining characters filled by  
" \* " .

#### **APAR IY85530**

##### **Abstract:**

Software scan not showing hotfixes

##### **Error Description:**

Customer noticed that an installed hotfix is skipped by his SW scan for some machines A more explicative message in libInvHW.log (saying that this entry skipped by hw scan could be skipped by sw scanner) could help to find out the reason of this sw scan behavior.

#### **APAR IY85784**

##### **Abstract:**

INV/SCAN/MCOLLECT directory on HP-UX endpoint requires 777 permissions

##### **Error Description:**

When you are required to move the /inv/scan/mcollect directory on your HP-Ux Endpoint to a full 777 permission in order for scans to work. This could be a security violation.

The directory mcollect is created by the user who runs inv\_config\_ep\_meths (usually it is root) while the directory is accessed by the user who runs Endpoint\_prog1 (mc\_get\_data) and it is nobody or tmersrvd.

When mcollect is created, is necessary to give ownership of the directory to nobody, if nobody is not found then mcollect gets 777.

If you create the user / group nobody, then root is able to give to nobody ownership of mcollect and it is the reason why the you do not see 777 anymore.

However the method mc\_get\_data is still running as tmersrvd so, and this user has not grants to access mcollect so it is the reason why .DON is not created under mcollect and .DATs of previous scans are not deleted.

#### **APAR IY86092**

##### **Abstract:**

APM\_CALLBACK.CONF is left under TMR \$DBDIR

##### **Error Description:**

Inventory creates the file apm\_callback.conf under \$DBDIR/inventory/INVxxxxx. This file is left there after the APM execution completion (notification) and is not used in case of the following configuration: DataHandler installed on a ManagedNode different from TMR-box but within the same TMR-region. Hence the file in this case is useless and could not be created at all.

#### **APAR IY86174**

##### **Abstract:**

Multiple duplicate CTOCS in output queue of collector

##### **Error Description:**

A collector got into a state where the same ctoc was in the input queue and there were 255 instances of that ctoc in the output queue.

#### APAR IY86231

##### Abstract:

INV\_RCV\_METHS core dumps if tec rim object does not exist

##### Error Description:

The following error appears when running the command:

```
root tivtmr1 scripts wrimtest -l tec
Resource Type : RIM
Resource Label : tec
```

FRWSL0006E A reference to an object is invalid. The object no longer exists or is in a disconnected TMR. Refer to the TME 10 Framework Planning and Installation Guide, "TME Maintenance and Troubleshooting" for details about the wchkdb command or contact your Tivoli support provider.

If you execute:

```
root tivtmr1 scripts wlookup -ar RIM ] grep tec
tec      1705024819.1.598 RIM::RDBMS_Interface
```

and then:

```
objcall 1705024819.1.59 _get_application_type
_get_application_type: FRWOG0030E method not found
```

This causes inv\_rcv\_meths to crash

#### APAR IY86274

##### Abstract:

INV\_CONFIG\_EP\_METHS.EXE fails with popup

##### Error Description:

The error message is "inv\_config\_ep\_meth.exe has encountered a problem and needs to close..." and occurs on some endpoints (on "HP Compaq nw8000").

An HW scan without updating scan results to DB is successful. However an InventoryConfig profile without HW scan and only including scan result update to DB is failing.

#### APAR IY86785

##### Abstract:

Disabling WMI when detecting cpu-family

##### Error Description:

WMI detects incorrect cpu-family. Disabling WMI using env variable NO\_WMI\_FAMILY.

#### APAR IY87283

##### Abstract:

Inventory 4.2.2- FP03 command WSCANNER.EXE failed

##### Error Description:

Inventory 4.2.2- FP03 Command wscanner.exe failed  
(argv[0]=wscanner.exe status=7424 errno9)

#### APAR IY87975

**Abstract:**

WEPMCOLL.NLM abends

**Error Description:**

wepmcoll.nlm abends when running scan on Netware endpoints. During the scan, it appears that wscanner.nlm hangs, and can only be unloaded by unloading lcfid.nlm.

**APAR IY89270****Abstract:**

MEMTOTAL from VMWARE Linux not showing total memory

**Error Description:**

The HW scan for VMware version 2.5.1 gives the information of the VMware console instead of the whole server. For example we see 250 megs for the memory whereas it is really 4 gigs.

**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-FP06				
IY84553	IY86174	IY87975		

The following section describes each APAR in detail.

**APAR IY84553****Abstract:**

Scans hanging at one gateway collector

**Error Description:**

Scans remain in pending. Running mcollect\_cleanup to clear pending scans on regular basis. Found one gateway is continually crashing. Error repeats in mcollect.log: c:\Tivoli\bin\w32-ix86\TAS\Collector\Collector\_progl.exe (method:2155-mc\_start, PID:420) exited unexpectedly, status=6 Level3 sent debug module to collect additional information and address problem with "a wrong management of a failure in creating the iom key used to get the data from the endpoint"

**APAR IY86174****Abstract:**

Multiple duplicate CTOCS in output queue of collector

**Error Description:**

A collector got into a state where the same ctoc was in the input queue and there were 255 instances of that ctoc in the output queue.

**APAR IY87975****Abstract:**

WEPMCOLL.NLM abends

**Error Description:**

wepmcoll.nlm abends when running scan on Netware endpoints. During the scan, it appears that wscanner.nlm hangs, and can only be unloaded by unloading lcfid.nlm.

**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-FP06				
IY81968	IY82563	IY86341	57665	57922
58020				
Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-FP06				
IY82563	IY82975	IY83527	IY84105	IY85098
57696	57180	57669	57935	57874
58020				
Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-FP06				
None				
Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-FP06				
IY82563	IY83508	IY83462	IY86341	

The following section describes each APAR in detail.

#### **APAR IY81968**

##### **Abstract:**

SWDMGR abends in T\_SWDMGR\_MATCHED\_SOFTWARE after a SIGMAP\_QUERY

##### **Error Description:**

Reported environment : TCM 4.2 SWD & INV FP03 or FP05 swdmgr cores when doing inventory scans; abends with signal 4 on AIX 4.2 TMR. Inventory - Software Distribution integration is enabled; problem surfaces processing signatures.

swdmgr\*.trc files identify abend in t\_Swdmgr\_matched\_software after a sigmap\_query error

SWDMGR poorly manages the error from the SQL and abends; the fix will prevent the abend from occurring.

In this case View SP\_SIG\_VIEW cannot be used because it has been marked inoperative; the problem can be resolved or circumvented by recreating the view

#### **APAR IY82563**

##### **Abstract:**

User notification dialog contains garbled characters at CM42FP0

##### **Error Description:**

user notification dialog contains garbled Japanese characters when it shows up at the endpoint. This happens after CM42 FP05.

#### **APAR IY82975**

##### **Abstract:**

SPD\_ENG crash on the endpoint during FROM\_FILESERVER installation

**Error Description:**

spd\_eng on the endpoint crashes in the following scenario: the lcfd.log shows: and error spd\_eng pop-up shows up on the screen.

**APAR IY83527****Abstract:**

When post.cat is corrupted, SWD does not remove the lock on it and this causes a loop

**Error Description:**

when post.cat is corrupted, SWD does not remove the lock on it and this cause a loop

**APAR IY84105****Abstract:**

SPD\_ENG traps with this content of customer "status" file

**Error Description:**

As spd\_eng traps the windows popup appears on the machine and all the files used by spd\_eng remain locked. After conn\_retry interval ,the gateway recontacts the endpoint and another spd\_eng starts. This new spd\_eng correctly finds the "status" file locked (locked by the trapped spd\_eng) and correctly loops on it.

**APAR IY85098****Abstract:**

"%" character in SPD causes Linux EP to trap in case of failure

**Error Description:**

SPDefinition contains "%" char (in the SP name, in the scripts, their arguments etc). In case an after install execute\_user\_program exits with a return code not zero (f.i. exit 1) on the Linux Endpoint, this causes an error on the EP as reported in spde EP traces:

```
9704 Tue 02 May 2006 03:49:39 PM CEST I
data_execution_status::execute() exception||||
9704 Tue 02 May 2006 03:49:39 PM CEST I
nested_sp_status::log_on_ep() >>>> ENTRY >>>>
9704 Tue 02 May 2006 03:49:39 PM CEST I
nested_sp_status::is_primary() >>>> ENTRY >>>>
```

and also reported on the lcfd.log 1 cm\_operation\_ep2 Format has illegal types, need standard catalog entry (<<- Start Exception Description ->> Software Package:

PORTALE\_FERSERVIZI\_5%2006-03-27%00002%Certificazione%CONF\_0 1.0)

**APAR IY83508****Abstract:**

TCM 4.2.3-FP01 ESR: hidden files on Solaris (start with a dot) duplicate

**Error Description:**

Hidden files on solaris (start with a dot) are not read by the 4.2.3 SPE browser (when adding files). FYI - this is the TMA SPE (not MN). In the SPE (4.2.3+FP1+001).....

1. Add a directory that you know has "." prefixed files.
2. Add a file, but use the browse button to select it. Problem reproduced on Windows env.

## APAR IY83462

### Abstract:

WDSETSPS New option to manage IP-BC state on local catalog

### Error Description:

It is needed to add a new option to the local command wdsetsp in order to manage SPs status, like IP-BC, on local endpoint catalog, which prevent SWD processing (because of failure of SP status check on the endpoint).

## APAR IY86341

### Abstract:

Permission changes while putting depot in HP\_UX.

### Error Description:

While putting depot files in the /tmp directory on HP-UX systems the directory information is changed from 1777 to 755 and the owner and group also changed. It appears that there is no control over this behavior. Same may be true for other packages.

**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-FP06				
IY83067	IY84627	IY84738	IY85313	IY86738
IY87635	IY88552			

The following section describes each APAR in detail.

## APAR IY83067

### Abstract:

Delete activity does not resolve the variable used as DESTPATH

### Error Description:

If a plan has more than one activity, conditioned by target, and the delete activity is not the first one (in customer's scenario the delete activity is the 3rd one) and if DestPath in delete activity is specified as follows:

```
<name>DestPath<name>
<value>$(ProgramFiles)/PermonWin/tmp</value>
```

time: In fact the Executor trace shows:

```
06/03/07 05:15:37.357 CET: Executer230 I :
com.tivoli.apm.core.ExecuteAction : Param name: DestPath **
Param value: /PermonWin/tmp
```

and not:

```
06/02/23 12:40:39.754 CET: Executer171 I :
com.tivoli.apm.core.ExecuteAction : Param name: DestPath **
Param value:
$(ProgramFiles)/PermonWin/tmp
```

This happens because of a wrong handling of data moving variable s in case of activities conditioned by targets.

## APAR IY84627

**Abstract:**

APPL\_SPEC\_ACT\_ID can be duplicated under certain conditions

**Error Description:**

Under certain circumstances, the APPL\_SPEC\_ACT\_ID for one activity can be duplicated for the activity in another plan. The values for APPL\_SPEC\_ACT\_ID should be unique.

**APAR IY84738****Abstract:**

Pausing an activity plan does not set its status to "paused"

**Error Description:**

After pausing a plan, its status remains "Started" and does not change into "Paused".

If you submit a plan having six activities all conditioned, from the **wmonpln** command output, you will see that the first activity fails causing the second to be "CancelByCond", and when the third and the fourth activities are running, you pause the whole plan.

**APAR IY85313****Abstract:**

APM processing is slow when many plans with execution windows are submitted

**Error Description:**

In customer production environment APM processing randomly becomes very slow, that is the plans are submitted and are listed with the status WAITING and change the status only after minutes (sometimes up to 20 or 30 minutes). After this delay the plans are processed normally.

During the hang time the cpu of APM\_engine is very high and the APExecuter traces are flooded of records with messages containing references to execution window.

**APAR IY86738****Abstract:**

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

**Error Description:**

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

**APAR IY87635****Abstract:**

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

**Error Description:**

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

AMN4050E No role has been defined.

This error occurs on Windows platforms.

#### APAR IY88552

##### Abstract:

APM activity timing is wrong if TZ is set to "(GMT+02:00) Harare, Pretoria"

##### Error Description:

If the Windows time zone is set to "(GMT+02:00) Harare, Pretoria", when submitting any activities through the Activity Planner Monitor, the started time shows 2 hours earlier than the actual submitting time. This is caused by the unsupported date.exe from the Cygwin toolkit not recognizing the time zone setting and returning the incorrect time.

**Change Manager:** The following APARs and internal defects for Change Manager were fixed:

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

Change Manager, Version 4.2.1, 4.2.1-CCM-FP06				
IY87278				

The following section describes each APAR in detail.

#### APAR IY87278

##### Abstract:

REG\_SWD\_PLUGIN.SH does not manage -R

##### Error Description:

CCM registration SWD plugin reg\_swd\_plugin.sh does not manage the -r option.

**Resource Manager:** The Resource Manager, Version 4.2.1 (4.2.1-TRM-FP06), component does not contain any fixed APARs.

**Web Interface:** The Web Interface, Version 4.2.1 (4.2.1-TRM-FP06), component does not contain any fixed APARs

**Directory Query:** The Directory Query, Version 4.2.1 (4.2.1-DQY-FP06), component does not contain any fixed APARs

**Pristine Manager and Pristine Manager Gateway:** The Pristine Manager, Version 4.2.1 (4.2.1-PMSRV-FP06) and Pristine Manager Gateway, Version 4.2.1 (4.2.1-PMGW-FP06) 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



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

IY50277	IY50315	IY50728	IY51373	IY50392
IY51468	IY51469	IY51473	IY52329	IY52338
IY52431	IY52452	IY52485	IY52684	IY52718
IY52762	IY52916	IY53001	IY53426	IY53445
IY54129	IY54266	IY54303	IY54646	IY54960
IY55118	IY55123	IY55129	IY55178	IY55277
IY56521	IY56612	IY56944		

Table 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

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				
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
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. Inventory APARs and defects included from 4.2.1-INV-FP05

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			

Table 20. 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 21. 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 22. MCollect APARs and internal defects included from 4.1.1-CLL-0003

MCollect, Version 4.1.1, 4.1.1-CLL-0003				
IY79101				

Table 23. 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 24. MCollect APARs and defects included from 4.2.1-CLL-FP05

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

Table 25. 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 26. 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

Table 26. 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)

IY54597	IY55058	IY55222	IY55298	IY55338
IY55516	IY55560	IY55563	IY55830	IY56038
IY56378	IY56524	IY56613		
<b>Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-FP01</b>				
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			
<b>Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-FP01</b>				
49235	49380	50467	IY53959	IY53990
<b>Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-FP01</b>				
48998	49235	49267	49319	49380
49998	50104	50210	50227	50389
IY52801	IY53499	IY53522	IY53571	IY53916
IY53959	IY54238	IY54261	IY54450	IY55058
IY55275	IY55298	IY55402	IY55766	IY55855
IY56568	IY56613	IY57202	IY57658	

Table 27. 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

<b>Software Distribution, Version 4.2.1, 4.2.1-SWDSRV-FP02</b>				
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
<b>Software Distribution Gateway, Version 4.2.1, 4.2.1-SWDGW-FP02</b>				
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

Table 27. 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 (continued)

IY62924	IY62933	IY63151	IY63714	IY63808
IY64483	IY64706	IY64746		
<b>Software Package Editor, Version 4.2.1, 4.2.1-SWDJPS-FP02</b>				
IY60700	IY63378	IY63714		
<b>Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-FP02</b>				
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 28. 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

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

Table 29. 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

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

Table 30. 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			
Software Distribution, Version 4.2.1 [fr], 4.2.1-SWD_fr-0001, French Language Support				
IY70048				

Table 31. 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 32. 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				

Table 32. 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 (continued)

Software Package Editor for Endpoints, Version 4.2.1, 4.2.1-SWDEP-F4P1				
IY76968	IY77508	IY77833		

Table 33. 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 34. Software Distribution APARs and defects included from 4.2.1-SWDSRV-FP05, 4.2.1-SWDGW-FP05, 4.2.1-SWDJPS-FP05, and 4.2.1-SWDEP-FP05.

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		

Table 35. 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 36. 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

Table 36. Activity Planner APARs and internal defects included from 4.2.1-APM-FP01 (continued)

IY55334	IY55335	IY55375	IY55759	IY55917
IY56020	IY56406	IY56589	IY56955	IY57122
IY57163	IY57166			

Table 37. 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 38. 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 39. 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 40. 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 41. 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
IY74754	IY74842	IY74892	IY74948	IY75114
IY75608	IY75767	IY75834		

Table 42. 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 43. 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 44. APARs and internal defects included from 4.2.1-APM-FP05

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

Table 45. Change Manager internal defects included from 4.2.1-CCM-F0P1

Change Manager, Version 4.2.1 4.2.1-CCM-F0P1				
47196				

Table 46. 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 47. 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 48. 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 49. APARs and internal defects included from 4.2.1-CCM-F2P2

Change Manager, Version 4.2.1 4.2.1-CCM-F2P2				
IY68427				

Table 50. 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 51. 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 52. 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 53. 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 54. Web Interface APARs included from 4.2.1-WEB-FP04

Web Interface, Version 4.2.1 4.2.1-WEB-FP04				
IY76567				

Table 55. 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 56. APARs and internal defects included from 4.2.1-DQY-FP05

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

Table 57. Pristine Manager APARs included from 4.2.1-PMGW-F0P1

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

Table 58. Pristine Manager APARs included from 4.2.1-PMSRV-FP01

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

Table 59. 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 6 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”
- “Traditional fix pack installation methods” on page 29
- “Software package block (SPB) fix pack installation for GUI components” on page 32
- “Updating the inventory schema” on page 36

## Hardware and software requirements

This section includes the following topics:

- “Supported platforms” on page 29
- “System requirements” on page 29

## Supported platforms

Supported platforms at the time of the release are detailed in the *IBM Tivoli Configuration Manager: Release Notes*<sup>®</sup>. 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 30  
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 31  
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 32  
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<sup>®</sup> for S/390<sup>®</sup>.

**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 6 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 60. 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 6 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 60. IND files for components

IND file	Component name	Tag
421INVFP.IND	Inventory, Version 4.2.1	4.2.1-INV-FP06
421LCFFP.IND	Inventory Gateway, Version 4.2.1	4.2.1-INVGW-FP06
411CLLFP.IND	Scalable Collection Service, Version 4.1.1	4.1.1-CLL-FP06
SWDFP6.IND	Software Distribution, Version 4.2.1	4.2.1-SWDSRV-FP06
SDGWFP6.IND	Software Distribution Gateway, Version 4.2.1	4.2.1-SWDGW-FP06
SDJFP6.IND	Software Package Editor, Version 4.2.1	4.2.1-SWDJPS-FP06
APMFP6.IND	Activity Planner, Version 4.2.1	4.2.1-APM-FP06
CCMFP6.IND	Change Manager, Version 4.2.1	4.2.1-CCM-FP06
TRMFP6.IND	Resource Manager, Version 4.2.1	4.2.1-TRMSRV-FP06
WEBUIFP6.IND	Web Interface, Version 4.2.1	4.2.1-WEB-FP06
DQYFP6.IND	Directory Query, Version 4.2.1	4.2.1-DQY-FP06
PMFP6.IND	Pristine Manager, Version 4.2.1	4.2.1-PMSRV-FP06
PMGWFP6.IND	Pristine Manager Gateway, Version 4.2.1	4.2.1-PMGW-FP06
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 34
- “Software Distribution server command” on page 35
- “Software Distribution disconnected command” on page 35

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 61. Default variables defined in SPB fix packs

Variable	Value	Description
<b>Tivoli_APM_GUI_Fix.v4.2.1.FP06</b>		
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.

Table 61. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
<b>Tivoli_CCM_GUI_Fix.v4.2.1.FP06</b>		
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.
<b>Tivoli_SWDEP_PC_Fix.v4.2.1.FP06</b>		
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.
<b>Tivoli_SWDEP_NW_Fix.v4.2.1.FP06</b>		
target_dir	\$(product_dir)\SD42CLI	
<b>Tivoli_SWDEP_OS2_Fix.v4.2.1.FP06</b>		
package_type	ALL	
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
<b>Tivoli_SWDEP_UNIX_Fix.v4.2.1.FP06</b>		
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.
<b>Tivoli_SWDEP_NTAS400_Fix.v4.2.1.FP06</b>		
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.
<b>Tivoli_SWDEP_400PS_Fix.v4.2.1.FP06</b>		
<b>Note:</b> 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.		
<b>Tivoli_WebUI_Fix.v4.2.1.FP06</b>		
package_type	ALL	
target_dir	\$(product_dir)\speditor	
<b>Tivoli_WebUI_L10N_Fix.v4.2.1.FP06</b>		
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.

Table 61. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
<b>Tivoli_SWD_WebUI_plugin_Fix.v4.2.1.FP06</b>		
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.
<b>Tivoli_INV_WebUI_plugin_Fix.v4.2.1.FP06</b>		
LCFROOT	/opt/Tivoli/lcf	The LCFROOT of the endpoint.
WebSrvHomeDir	/opt/IBMHTTPD	The path to the home directory for the Web server.
<b>Tivoli_Web_Gateway_SRV_Fix.v4.2.1.FP04</b>		
DMS.Destination	/usr/TivTwg	The path where the Tivoli Web Gateway is installed.
<b>Tivoli_MD2GUI_Fix.v4.1.1.FP01</b>		
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 6 CD (2 of 2) for complete instructions on using this tool.

To install the SPB fix packs using the SPB Patch Installer, perform the following steps:

1. Insert the IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 6 CD (2 of 2).
2. Locate and run the setup program located in the `spb_installer` directory.
  - On Windows, run the `setup.exe` file.
  - On all other platforms, run 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 6 CD (2 of 2). Click **Next**.
5. Select **Apply** and click **Next**.
6. Specify the components you want to install and click **Next**.
7. Clear the selection of the components for which you do not want to install in undoable mode. Click **Next**.



8. You might be prompted to specify the value of some variables defined in the SPB. Ensure that they are consistent with the existing installation on the workstation to be upgraded.
9. A Summary panel is displayed. Click **Next**.
10. The upgrade process starts.

### Software Distribution server command

To use this type of installation, your Tivoli environment must contain an installation of the Software Distribution Server component, the Software Distribution Gateway component, and a Tivoli endpoint. The following steps must be performed to apply the SPB fix pack on the targets:

1. Create a new Profile in a Profile Manager, using the naming convention described in Table 62.
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 62 contains the names of the fix pack 6 software package blocks and the names of the software profiles that must be used when using SPBs to install components. IBM Tivoli Configuration Manager, Version 4.2.1 GA SPBs are a prerequisite of the fix pack SPBs.

Table 62. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_APM_GUI_Fix.v4.2.1.FP06.spb	Tivoli_APM_GUI_Fix.v4.2.1.FP06
Tivoli_CCM_GUI_Fix.v4.2.1.FP06.spb	Tivoli_CCM_GUI_Fix.v4.2.1.FP06
Tivoli_SWDEP_\$(interp)_Fix.v4.2.1.FP06.spb	Tivoli_SWDEP_\$(interp)_Fix.v4.2.1.FP06
Tivoli_SWDEP_NTAS400_Fix.v4.2.1.FP06.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.1.FP06
Tivoli_SWDEP_400PS_Fix.v4.2.1.FP06.spb	Tivoli_SWDEP_400PS_Fix.v4.2.1.FP06
Tivoli_WebUI_4.2.1.spb	Tivoli_WebUI.4.2.1
Tivoli_WebUI_Fix.v4.2.1.FP06.spb	Tivoli_WebUI_Fix.v4.2.1.FP06
Tivoli_WebUI_L10N.4.2.1.spb	Tivoli_WebUI_L10N.4.2.1
Tivoli_WebUI_L10N_Fix.v4.2.1.FP06.spb	Tivoli_WebUI_L10N_Fix.v4.2.1.FP06
Tivoli_SWD_WebUI_plugin_4.2.1.spb	Tivoli_SWD_WebUI_plugin_4.2.1
Tivoli_SWD_WebUI_plugin_Fix.v4.2.1.FP06.spb	Tivoli_SWD_WebUI_plugin_Fix.v4.2.1.FP06
Tivoli_INV_WebUI_plugin_Fix.v4.2.1.FP06.spb	Tivoli_INV_WebUI_plugin_Fix.v4.2.1.FP06
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-FP06. 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 winvsg 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_FP06.sql` and `h_inv_db_vendor_421_FP06.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_FP0x.sql` and `h_inv_db_vendor_421_FP0x.sql` (where  $x = 1, 2, 3, \text{ or } 4$ ) 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`
- `inv_db2_421_FP05.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-FP06, 4.2.1-SWDSRV-FP06, and 4.2.1-INV-FP06, 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-FP06, 4.2.1-SWDSRV-FP06, and 4.2.1-INV-FP06, 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-FP06** Software Distribution server patch to update the Software Distribution command line and GUI.
2. Install the **4.2.1-SWDGW-FP06** Software Distribution gateway patch to update Windows endpoints.
3. Install the **4.2.1-APM-FP06** 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 `wdepccm.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 37, 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 **wdepccm** command. For more information on this command, see “wdepccm” on page 43.

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\nContact system administrator."

**SwitchPopupDesktop**

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

**LogoffType**

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

- 0**       Performs a standard logoff. This is the default value.
- 1**       Performs a forced 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."



## wdepccm

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

### Syntax

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

### Options

- r**           Unlocks a workstation that has been locked by mistake.
- g *property***  
              Displays the setting defined for the specified registry key.
- s *property***  
              Defines a setting for the specified registry key, as follows:
  - e [true | false]**  
              Specifies whether the concurrent login feature is enabled. Supported values are **true**, which means that the feature is enabled, and **false**, which means that the feature is disabled. The default value is **true**.
  - p [true | false]**  
              Specifies whether a message must be displayed on the endpoint to notify the user that login is temporarily disabled. Supported values are **true**, which means that the dialog is displayed, and **false** which means that the dialog is not displayed. The default value is **true**.
  - t *timeout***  
              Specifies how many seconds the message must be displayed on the endpoint if you set the **-p** option to **true**. The default value is **10**.
  - l *popup\_title***  
              Defines the title of the dialog box displayed on the endpoint if you set the **-p** option to **true**. The default value is SWDNotification.
  - L *popup\_msg***  
              Defines the text contained in the dialog box displayed on the endpoint if you set the **-p** option to **true**. The default value is: "Distribution in progress\r\nLogon temporarily disabled."
  - m [true | false]**  
              Specifies whether the user 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\nContact the system administrator."
- x *level***   Specifies the tracing level. Supported values are as follows:

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

**-y** *pathname*

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

**-s** [**true** | **false**]

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

**-d** *max\_shutdowns*

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

**-o** [0 | 1 | 2]

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

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

**-c** [**true** | **false**]

Specifies whether a message is displayed on the endpoint to notify the user that the distribution has completed and 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 **wdepccm** command returns one of the following:

**0** Indicates that **wdepccm** completed successfully.

**other than zero**

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

## Examples

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

```
wdepccm -g p
```

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

```
wdepccm -s J 1
```

## Using the concurrent login feature

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

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

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

- waccpst
- wcommstsp
- winstsp
- wspmldata
- wremovsp
- wundosp

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

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

### **-Y *max\_login\_allowed***

Use this option to specify whether users can log on to the workstation while a distribution is taking place. This setting can be defined only for software packages 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*.

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## 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*.

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

#### Reference Manual for Software Distribution

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

No changes are required for the *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution*.

#### User's Guide for Deployment Services

The following new information applies to the *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 the *Release Notes*

No changes are required for the *Release Notes*.

### 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*:

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

#### Reference Manual for Software Distribution

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

- **APAR IY86140**

In the "wswdmgr" command description, the explanation for the option "Deadline" must be changed as follows: Deadline: Specifies the number of hours, starting from the time the distribution is submitted, after which a distribution expires. Valid values are all integers greater than zero. For example if you schedule a distribution to start at 16:00 and the operation is executed at 15:00, the deadline is computed starting from 15:00 and not at 16:00.



## User's Guide for Deployment Services

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

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

## User's Guide for Inventory

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

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

## 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<sup>®</sup>", 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.

- **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 process. 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*.

- **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`
- `wsetsp`
- `wspmldata`
- `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
- wspmvdta
- 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.

- **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**

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 63. Server Component Prerequisites

Component	Software to be installed as prerequisite
Tivoli Management Framework	None
Web Interface	Tivoli Management Framework, Version 4.1, or later
Activity Planner	<ul style="list-style-type: none"> <li>• Tivoli Management Framework, Version 4.1, or later</li> <li>• Java™ Client Framework for Tivoli, Version 4.1</li> <li>• Java 1.3.0 for Tivoli</li> <li>• Java RDBMS Interface Module, Version 4.1</li> <li>• One of the supported databases (DB2®, Informix®, Microsoft SQL Server, Oracle, or Sybase)</li> </ul>
Change Manager	<ul style="list-style-type: none"> <li>• Tivoli Management Framework, Version 4.1, or later</li> <li>• Java Client Framework for Tivoli, Version 4.1</li> <li>• Java 1.3.0 for Tivoli</li> <li>• Java RDBMS Interface Module, Version 4.1</li> <li>• Activity Planner, Version 4.2.1</li> <li>• One of the supported databases (DB2, Informix, Microsoft SQL Server, Oracle, or Sybase)</li> </ul>
Inventory and Inventory Gateway	<ul style="list-style-type: none"> <li>• Tivoli Management Framework, Version 4.1, or later</li> <li>• Scalable Collection Service, Version 4.1.1</li> <li>• Java 1.3.0 for Tivoli</li> <li>• Java RDBMS Interface Module, Version 4.1</li> <li>• Java Client Framework for Tivoli, Version 4.1</li> <li>• One of the supported databases (DB2, Informix, Microsoft SQL Server, Oracle, or Sybase)</li> </ul>

Table 63. Server Component Prerequisites (continued)

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

**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 64. Web Gateway Component Prerequisites

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

**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 65. Desktop Component Prerequisites

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

**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[-1]] [-t mc_upcall_timeout]
```

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

- I Does not send the INV\_SA.LOG file to the inventory data handler. This option can be used only in conjunction with the -s option.

## 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.

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 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\_mdists\_result**  
Manages post scripts during a datamoving operation.

**cm\_operation\_ep**  
Used by the install repair operation (winstsp -mr).

**cm\_operation\_ep2**  
Calls the endpoint during all distribution operations.

**swd\_mobile\_setup**  
Starts the download of mobile libraries to the endpoint.

- **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.

- **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 Software Package 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

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.

- **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."

## 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 workaroud 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.

- **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 insert rows already present in the database.

This error can cause a decrease in performance.

## 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.

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## Contacting IBM Software Support

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

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

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

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

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

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

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

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