

IBM Tivoli Configuration Manager



# Readme File for Fix Pack 3 - PTF U806566

*Version 4.2.2*



IBM Tivoli Configuration Manager



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*Version 4.2.2*

**Note**

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

**IBM Tivoli Configuration Manager 4.2.2 Readme for Fix Pack 3**

This edition applies to fix pack 3 (PTF U806566) for version 4, release 2, modification level 2 of IBM Tivoli Configuration Manager (program number 5724-C06).

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## Chapter 1. IBM Tivoli Configuration Manager 4.2.2 Readme File for Fix Pack 3 (PTF U806566)

This readme file provides important information about Fix Pack 3 (PTF U806566) for IBM® Tivoli® Configuration Manager Version 4.2.2. This readme file is the most current information for the fix pack and takes precedence over all other documentation for IBM Tivoli Configuration Manager, Version 4.2.2. This fix pack fixes a variety of defects on *IBM Tivoli Configuration Manager* components.

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

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### About this release

This section includes the following topics:

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

### CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 includes *two* CDs:

*Table 1. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 (CD 1 of 2)*

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

*Table 2. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 (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.
/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

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

*Table 3. Customer enhancement request references in this fix pack*

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

With this feature the source host for Data Moving Endpoint to Endpoint send and delete operations is not necessarily the Tivoli server anymore. With this feature the source host can be customized. A default value can be set using the following command:

```
swsdcfg -s datamoving_source_host=ManagedNode name
```

### New features in previous fix packs

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

*Table 4. Customer enhancement request references in previous fix packs*

Specifying the path where a single file is saved on the destination system	APAR IY68180
Cancelling an activity plan in Starting state	APAR IY70368
Concurrent login feature	Feature 54613
Displaying the .jar files version	Feature 55204
Modify cancel button on endpoint notification panel	Feature 55522
Immediate start of distribution for "unique" targets in conditioned activities	Feature 56050
<b>Stop on failure</b> check box	Feature 56087
Cancel as preferred final status for a plan	Feature 56137
New 32-bit MRMBIOS.EXE	Feature 180357

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

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

If you specify the **-G** option or select the **Modify Destination Path** check box, the file is saved on the destination system according to the following naming convention: *name\_endpoint\_timestamp\_distribution\_id.extension*. If you do not specify the **-G** option or select the **Modify Destination Path** check box, the default behavior applies and the retrieved file is saved with its

original name to a directory on the destination system named according to the following convention: *endpoint\_distribution\_id\_timestamp*.

#### **Cancelling an activity plan in Starting state - APAR IY70368**

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

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

#### **Concurrent login feature - Feature 54613**

On Windows® operating systems, you can use the concurrent login feature to prevent the end user from logging in to the workstation and performing a shutdown while a distribution is taking place. This feature guarantees that critical distributions are not interrupted. You can also define a maximum number of logins that can be performed during a distribution. In this case, the distribution is paused and restarts after the user logs off. For more information, see “Implementing the concurrent login feature” on page 31.

#### **Displaying the .jar files version - Feature 55204**

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

##### **On UNIX® operating systems:**

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

##### **On Windows operating systems:**

```
wjarversion.bat jarfile
```

where:

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

- apm.jar
- apm\_utils.jar
- swd\_plugin.jar
- tl\_plugin.jar

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

#### **Modify cancel button on endpoint notification panel - Feature 55522**

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

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

With this feature you can add a new submission parameter to the Activity Planner. When submitting a plan, it is now possible to enable the Activity Planner server to evaluate all the conditioned activities of a plan, as soon as the plan is submitted. In this way if a conditioned activity has a target, which is not contained in a conditioning activity, the operation for that target starts immediately. One limitation is that a plan with at least one activity, having the option target computation at activity execution set, cannot be submitted if this feature is enabled.

To enable this feature from the Activity Planner command line, run the **wsubpln** command in the following way:

```
wsubpln -r plan_name -Dpre_eval_conditions=true
```

To enable this feature from the Activity Planner GUI, the **Pre-evaluate conditions at plan submission** check box has been added to the **Plan Submission Parameters** panel.

To enable this feature from the Change Manager command line, specify the **-e** option when running the **wsyncrmod** command, or select the **Pre evaluate conditions at plan submission** check box which has been added to the **Select activity plan name** panel.

### Stop on failure check box - Feature 56087

With this feature you can soften the check performed by Change Manager on each ex-requisite dependency, related to a Software Distribution element, to avoid a failure in the synchronization process, if the condition is not met on one of the target machines. Using this feature you can control the Change Manager behavior when evaluating the dependency. The **Stop on failure** check box has been added to Change Manager to activate the feature.

To enable this feature, perform one of the following actions:

- Right-click the **Dependencies** pane of the **Software Distribution element** panel. Select the **Software Distribution Ex-requisite** dependency type from the **Add** menu. By default, the **Stop on failure** check box is selected and active, to maintain compatibility with the previous fix pack level.
- Select **Software Distribution element** from the **Add** menu. The **Software Distribution element** panel is displayed. Click the **Distribution Options** button to display the **Distribution Options** panel. By default, the **Stop on failure** check box is greyed out. It becomes active after adding a Software Distribution ex-requisite dependency to the Software Distribution element specified.
- From the **Edit** menu, select **Create Reference Model**. The **Properties** panel is displayed. By default, the **Stop on failure** check box is greyed out. It becomes active after adding a Software Distribution element, which contains a Software Distribution ex-requisite dependency.

### Cancel as preferred final status for a plan - Feature 56137

Before submitting a plan, you can define its final status to Cancel if any of the plan activities have been cancelled and the others are successful, either by selecting **Set Cancel as preferred final status** in the General page of the **Plan Submission Parameters** notebook or by specifying **-Dis\_cancel\_preferred=y** in the **wsubpln** command.

### New 32-bit MRMBIOS.EXE - Feature 180357

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

## Backward compatibility issues

This fix pack generates no compatibility issues.

## Product compatibility

Compatibility is defined as whether different versions of a Tivoli product can communicate with different versions of Tivoli Management Framework.

IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 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 56350

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

### Defect 56606

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

DISSE0035E No target is specified or no target qualifies for the operation. Check the log file for further information.

### Defect 183012

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

### Defect 183229

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

## Limitations in DBCS environments

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

### Defect 176363

In DBCS environments, it might occur that the **COMPUTER\_QUERY** and

the H\_COMPUTER\_QUERY are not properly filled in. In the trace file rim\_db\_log, you can see the following error message:

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

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

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

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

#### Defect 53393

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

```
FRWI10003E Fail to install product.
```

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

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

```
wuninst SWDIS_110n_ja node -rmfiles
```

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

## Product fix history

IBM Tivoli Configuration Manager, Version 4.2.2, Fix Pack 3 supersedes all interim fixes and fix packs released previously for the product. The following sections include all interim fixes and fix packs shipped since the IBM Tivoli Configuration Manager, Version 4.2.2 release. It is divided into the following subsections:

- “Fixes contained in this fix pack”
- “Fixes contained in previous fix packs and interim fixes” on page 19

### Fixes contained in this fix pack

Table 5 lists the fixes included in this fix pack:

*Table 5. Interim fixes included in this fix pack*

Interim fix	Component/Service
4.2.2-INV-FP03	Inventory, Version 4.2.2
4.2.2-INVGW-FP03	Inventory Gateway, Version 4.2.2
4.2.2-CLL-FP03	Scalable Collection Services, Version 4.2.2

Table 5. Interim fixes included in this fix pack (continued)

Interim fix	Component/Service
4.2.2-SWDSRV-FP03	Software Distribution, Version 4.2.2
4.2.2-SWDGW-FP03	Software Distribution Gateway, Version 4.2.2
4.2.2-SWDJPS-FP03	Software Package Editor, Version 4.2.2
4.2.2-APM-FP03	Activity Planner, Version 4.2.2
4.2.2-CCM-FP03	Change Manager, Version 4.2.2
4.2.2-TRMSRV-FP03	Resource Manager, Version 4.2.2
4.2.2-TRMGW-FP03	Resource Manager Gateway, Version 4.2.2
4.2.2-WEB-FP03	Web Interface, Version 4.2.2
4.2.2-PMSRV-FP03	Pristine Manager 4.2.2
4.2.2-PMGW-FP03	Pristine Manager Gateway 4.2.2
4.2.2-DQY-FP03	Directory Query 4.2.2

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

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

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

The following section describes each APAR or defect in detail:

#### APAR IY79372

##### Abstract:

Inv\_cb\_meths process core dumps on HP platforms when it detects a corrupted CTOC

##### Error Description:

When the CTOC results do not return a values sequence, there is an invalid access memory. Avoid an invalid access memory of the complete\_scan value, when this value is never set.

#### APAR IY79780

##### Abstract:

Inventory cannot detect CD information with specific CD-ROM model

##### Error Description:

Inventory cannot detect CD information when CD model is E-IDE CD-ROM 52X/AKH SCSI CdRom Device.

#### APAR IY79796

##### Abstract:

"Power PC Family " still in the database on AIX workstations



**Error Description:**

There is the correct "POWER4" entry in the .MIF files, but the database still contains the old entry "Power PC Family" instead of having "POWER4". As a workaround, you should change the processor\_id if the Processor-Family attribute changes.

**APAR IY79890****Abstract:**

After INV 4.2.1-FP02 incorrect characters in the IP Address table

**Error Description:**

Incorrect characters can be found in the IP Address table such as:

172.22.8.7\_A  
0.0.0.0\_B  
0.0.0.0\_C

The reason is that, if inventory finds a duplicate address, it wrongly appends the postfix letters to all IP addresses, and it does not skip the invalid IP address 0.0.0.0.

**APAR IY80066****Abstract:**

wscanner.exe crashes if serial number contains special characters

**Error Description:**

In a INV 4.2.1-FP04 environment, when running hardware scans on some HP laptops, the wscanner.exe process crashes if the serial number looks corrupted and contains for example special characters.

**APAR IY80837****Abstract:**

Software scans very slow to write to database

**Error Description:**

Running any software scan takes too long. The rim.log file contains a trace entry about the problem.

**APAR IY81359****Abstract:**

Memory problem caused by inv\_rcv\_meths

**Error Description:**

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

**APAR IY81437****Abstract:**

Create signatures for Tivoli Configuration Manager

**Error Description:**

The signature files INV42x.SIG and INV42xGW.SIG are not installed with versions 4.2.2 and 4.2.3, making it impossible to define signatures for these versions of Configuration Manager.



## **APAR IY81636**

### **Abstract:**

Problem scanning an AIX endpoint file systems

### **Error Description:**

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

## **APAR IY81879**

### **Abstract:**

H\_SYS\_INSTANCE.TME\_OBJECT\_LABEL not updated if endpoint renamed

### **Error Description:**

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

## **APAR IY82061**

### **Abstract:**

`mrmbios.exe` ends with error when BIOS contains special characters

### **Error Description:**

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

## **APAR IY82415**

### **Abstract:**

Expired inventory activity remains started from an APM point of view

### **Error Description:**

If the user that submits a plan does not have a senior role, when one of the plan activities is an inventory activity that expires, the plan remains `STARTED` and the `scollect.log` shows that an error occurred when sending a report to Activity Planner because of insufficient authorization.

## **APAR IY82479**

### **Abstract:**

Creation of tables fails with the message "Name too long"

### **Error Description:**

The `inv_db2_mvs_custom_421_FP03.sql` script includes two table names that are longer than 18 characters: `TMP_INST_SMBIOS_DATA` and `TMP1_INST_SMBIOS_DATA`. The maximum length for table names on MVS is 18 characters. The table names have been changed to `TMP_I_SMBIOS_DATA` and `TMP1_I_SMBIOS_DATA`.

## **APAR IY82635**

### **Abstract:**

Memory leak with `inv_stat_meths` process on AIX platforms

### **Error Description:**

The `inv_stat_meths` process has memory leak and continues to consume high memory usage until it crashes with signal 11.

## **APAR IY82838**

**Abstract:**

Inventory does not retrieve data for FCP-attached tape drives

**Error Description:**

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

**APAR IY82924****Abstract:**

If notification type is FAIL, Data Handler does not send reports to APM

**Error Description:**

If the InventoryConfig profile has defined FAIL as notification type and the profile is distributed through the Activity Planner Monitor, the Data Handler does not send the report to the Activity Planner Monitor, if the distribution succeeds, because Data Handler sends to the Activity Planner Monitor only failed reports.

**APAR IY83074****Abstract:**

The Replace option does not work in the custom scan if there are no entries to be inserted

**Error Description:**

If the Replace option is used for the custom scan, all existing entries in the custom table for the scanned endpoint should be removed and replaced with the new entries. If there are no new entries to insert, the existing entries should be removed, but this does not happen.

**APAR IY83087****Abstract:**

Memory leak in the **wwaitscan** command

**Error Description:**

If one target of the distribution is switched off, the **wwaitscan -i scan\_id** command does not exit until the target is switched on, or the distribution deadline expires, or the scan is cancelled using the **wcancelscan** command.

**APAR IY83338****Abstract:**

Custom scan fails on Framework 4.1 endpoints

**Error Description:**

After applying APAR **IY80625**, the Inventory profiles configured to run a custom scan fail on Tivoli Management Framework 4.1 endpoints.

**APAR IY83381****Abstract:**

UNIX System parameters are not reported on SuSE Linux endpoints

**Error Description:**

When running an Inventory hardware scan on some SuSE Linux endpoints, the scan might not report the UNIX System parameters.

## APAR IY84708

### Abstract:

Inventory data handler core dump

### Error Description:

Inventory data handler process is killed by signal 11, when the output queue has a blank CTOC. As a workaround, rename the output queue of the Inventory data handler.

## APAR IY84735

### Abstract:

"\*" in COMPUTER\_SYS\_ID when GUID is shorter than 28 characters

### Error Description:

Inventory pads the GUID string with "\*", if the GUID size is shorter than 28 characters on Windows endpoints. The COMPUTER\_SYS\_ID value has the remaining characters filled by "\*".

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

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

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

The following section describes each APAR in detail.

## APAR IY79101

### Abstract:

wcancelscan command roles changed

### Error Description:

The authorization roles needed for the wcancelscan command have been modified. The needed roles were super or senior. To cancel a scan, it is now sufficient to have admin and Dist\_control roles.

## APAR IY84553

### Abstract:

Scans hanging at one gateway collector

### Error Description:

Scans remain in pending state. One gateway is continually crashing. The following error message can be found in the mcollect.log file:

```
c:\Tivoli\bin\w32-ix86\TAS\Collector\Collector_prog1.exe  
(method:2155-mc_start, PID:420) exited unexpectedly, status=6
```

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

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

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-FP03				
IY77687	IY80104	IY80647	IY81144	IY81968
IY82317	IY82563	IY83183	IY83456	
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-FP03				

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

IY77687	IY80647	IY80648	IY81596	IY82317
IY82467	IY82563	IY82975	IY83456	IY83527
IY84105	IY85098			
<b>Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-FP03</b>				
IY80647	IY80648	IY82317	IY82467	IY82563
IY83456	IY83462	IY83508		

The following section describes each APAR or defect in detail.

#### APAR IY77687

##### Abstract:

The RETRY attribute of an execute user program does not work

##### Error Description:

The RETRY attribute of an execute user program does not work properly when used multiple times. If this attribute is used in the execute user program in the COMMIT stanza, the program is run each time the commit operation is performed. The retry attribute works correctly only the first time.

#### APAR IY80104

##### Abstract:

Distribution settings panel - Deadline option

##### Error Description:

When scheduling a software package distribution using the Software Distribution GUI, select **Wake on Lan EP** under the endpoint management section on the Distribution Settings panel , then click on Set or Set & Close, without changing the default deadline. The deadline for that distribution is set to one day ahead, while this value should be consistent with the MDist 2 default deadline of 3 days.

#### APAR IY80647

##### Abstract:

Keywords not used in all\_line stanza are mistakenly written in SP text

##### Error Description:

The add\_line and add\_token stanza contain remove\_if\_modified, replace\_if\_existing, and replace\_if\_newer, all of which are not used.

#### APAR IY80648

##### Abstract:

Need to make REG\_SZ compatible with REG\_EXPAND\_SZ

##### Error Description:

For certain registry keys like PATH, some Windows installation uses REG\_SZ and other installations use REG\_EXPAND\_SZ. If the software package adds a key with the REG\_SZ type and then finds a key with the REG\_EXPAND\_SZ type, it considers the two types different, so it replaces the old key instead of simply adding the new value at the end of the existing one.

**Additional Info:**

For example, on the target machine, you create a registry value of type REG\_SZ with the name mypath and value one;two. You then create a package that should append three to that registry value, defined in the package as REG\_EXPAND\_SZ. The expected value of mypath should be one;two;three, but it will actually be just three.

**APAR IY81144****Abstract:**

Symbolic link not created when variable is passed

**Error Description:**

Try to pass path variable, then create a link, however this does not work on UNIX endpoints. Use a variable to set a symbolic link.

**APAR IY81596****Abstract:**

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

**Error Description:**

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

**APAR IY81968****Abstract:**

SWDMGR abends in t\_swdmgr\_matched\_software after a sigmap\_query fails

**Error Description:**

A core dump occurs during an inventory scan in the sigmap\_query is not successful.

**APAR IY82317****Abstract:**

install\_msi\_product stanza contains a package\_file attribute that contains variables

**Error Description:**

Following installation of FP01, variables are not correctly handled in the check made to validate the MSI file name.

**APAR IY82467****Abstract:**

Customize the number of retries of the call InitiateSystemShutdown

**Error Description:**

When InitiateSystemShutdown fails with ERROR\_NOT\_READY, the operation is retried a maximum of five times and this maximum cannot be changed.

**Additional Info:**

To make the retrying of this operation customizable the following parameters are added to the swdis.var file:

\_\_SWD\_REBOOT\_FAIL\_RETRY\_TIMES\_\_

The number of times the operation should be retried.

### **\_\_SWD\_REBOOT\_FAIL\_RETRY\_SLEEP\_TIME\_\_**

The length of time in seconds between successive retries.

#### **APAR IY82563**

##### **Abstract:**

User notification dialog contains garbled characters

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

In Japanese environments, the user notification panel on the endpoint contains garbled characters.

#### **APAR IY82975**

##### **Abstract:**

SPD\_ENG crashes on the endpoint during a fromfiles server installation

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

This problem occurs because the file server is not available. The condition is not checked when the gateway contacts the endpoint following a checkpoint restart caused by a network error.

#### **APAR IY83183**

##### **Abstract:**

**wmdist -I** shows the wrong size if send (wspmvdata) uses '\*'

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

The size of the package being sent, reported by **wmdist -I**, is incorrect when the wildcard \* has been used to include multiple files in a **wspmvdata** send operation. The number of files to be sent is wrongly multiplied by the number of endpoints to which the package is to be sent.

#### **APAR IY83456**

##### **Abstract:**

Byte-level difference software distribution - DISSE0423E Failed to run.

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

Distribution of a software package using byte-level differencing fails with message DISSE0423E. This problem occurs if software packages involved in the delta distribution are large. Following installation of the fix, byte-level differencing can be used with large software packages.

#### **APAR IY83462**

##### **Abstract:**

**wdsetsps**: New option to manage IP-BC state on local catalog

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

It is not currently possible to force the reinstallation of a software package for which a not final status is registered in the endpoint catalog. A new option, **-e (Success|Failure)**, is added to the disconnected command **wdsetsps** to allow you to force the package status to a final status, as follows:

- To force the package status to Success:  
**wdsetsps -e Success**
- To force the package status to Failure:  
**wdsetsps -e Failure**

After running the command, you should immediately perform a new forced installation as other operations could cause unexpected behavior.

#### APAR IY83508

##### Abstract:

Hidden files on Solaris are not read by the 4.2.3 SPE browser

##### Error Description:

Using the Software Package Editor on Solaris and Windows platforms, hidden files that start with a dot are not visible when the browse function is used to add a file. If the file name is manually entered, the file is found and successfully added.

#### APAR IY83527

##### Abstract:

When *post.cat* is corrupted the lock is not removed and this causes a loop.

##### Error Description:

During versioning, the *post.cat* file is locked and if it is found to be corrupted, the operation being performed fails but the lock is not removed. During the report phase, the *post.cat* file is accessed again and because it is still locked, a loop starts. After the fix is applied, the behavior changes so that the corrupted file is deleted and recreated.

#### APAR IY84105

##### Abstract:

spd\_eng traps and the its files remain locked

##### Error Description:

When the spd\_eng process traps, a popup message is displayed on the workstation, and all the files used by spd\_eng remain locked. After the conn\_retry interval , the gateway recontacts the endpoint and another spd\_eng process starts. This new spd\_eng causes a loop on the locked files.

#### APAR IY85098

##### Abstract:

"%" character in software package causes Linux endpoints to trap in case of failure

##### Error Description:

Create a software package with a name that contains a "%" character, add a user\_program with some arguments that contain "%" as well, distribute the software package to Linux endpoints. The following error message is reported in the lcf.d.log file:

Format has illegal types, need standard catalog entry

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

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

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

The following section describes each APAR in detail.

#### **APAR IY80397**

##### **Abstract:**

TARGET LIST FOR QUERIES TRUNCATE ON DISPLAY

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

When attempting to display queries for target lists on an activity, the Activity Planner Editor GUI truncates to 261 targets, even if you have more queries in wlookup.

#### **APAR IY80844**

##### **Abstract:**

Targets are not sorted in order after plan submission

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

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

#### **APAR IY81197**

##### **Abstract:**

wmonpln output does not sort order by plan ID

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

The **wmonpln -lw** output does not have any order. The order should be for plan\_id.

#### **APAR IY81777**

##### **Abstract:**

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

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

You get the following exception when processing a report:

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

Further submitted plans are not processed.

#### **APAR IY83067**

##### **Abstract:**

Delete activity does not resolve the variable used as destination path

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

If a plan has more than one activity, conditioned by target, and the delete activity is not the first one, and if DestPath in the delete activity is specified as follows:

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

the value of the DestPath variable is not correctly resolved at execution time.



#### **APAR IY83772**

##### **Abstract:**

Recursive plan remains "Waiting" when RIM planner is deleted

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

If the planner RIM object is deleted and then restored, and a commit operation is performed in the time interval during which RIM is not available, an exception is raised causing the recursive plan to stay in Waiting status.

#### **APAR IY83968**

##### **Abstract:**

Data moving operation from endpoint to endpoint does not work when started from APM

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

When submitting a data moving operation from endpoint to endpoint using the Activity Planner Monitor, the distribution does not complete and the output of the **wmdist -q** command shows the target endpoint in WAITING status.

#### **APAR IY84411**

##### **Abstract:**

Activity Planner Monitor is able to pause a task activity in a plan

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

From the Activity Planner Monitor you are able to pause a task activity in a plan. This is not a correct behavior, since this type of operation is not supported by the application plug-in.

#### **APAR IY84511**

##### **Abstract:**

Searching the plan to submit through the Activity Planner Monitor is not immediate

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

There is currently no search facility when selecting from the Activity Planner Monitor a plan to submit. When pressing a specific key, the Activity Planner Monitor should immediately show all the plans starting with that particular character-key.

#### **APAR IY84627**

##### **Abstract:**

APPL\_SPEC\_ACT\_ID duplicated under specific conditions

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

Under specific circumstances, the APPL\_SPEC\_ACT\_ID value for one activity might 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, the plan status remains "Started" and does not change into "Paused". This happens when at least one activity in the plan is *canceled\_by\_condition*.

**APAR IY85127****Abstract:**

**wstopapm** command does not display any error message

**Error Description:**

If you log on to the system having another user ID different from root or Administrator, and run the following command:

```
wstopapm -f
```

the processes are not killed, but the command does not display the error message:

You do not have the necessary permission to perform the operation.  
Use root or Administrator.

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

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

**Error Description:**

Activity Planner processes very slowly plans which have been submitted with execution windows. During this time frame, the CPU usage of the APM engine is very high, and the APExecuter traces are filled with messages containing references to execution windows.

**Change Manager:** The following defect for Change Manager was fixed:

*Table 10. Change Manager APARs included in this fix pack*

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

The following section describes the defect in detail.

**Defect 56350****Abstract:**

**wsyncrmod** usage updated with new option

**Error Description:**

A new option **-e** has been added to the **wsyncrmod** command.

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

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

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

## Fixes contained in previous fix packs and interim fixes

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

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

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-INV-FP01 and 4.2.2-INVGW-FP01				
173514	174581	174635	174642	174654
175123	175167	175168	175507	175648
176418	176561	177490		
IY59253	IY61580	IY62206	IY63636	IY64626
IY64677	IY65052	IY65127	IY65261	IY65415
IY65476	IY65759	IY66256	IY66569	IY66638
IY66722	IY66780	IY66782	IY66998	IY67003
IY67049	IY67171	IY67728	IY67806	IY68056
IY68383	IY68584	IY68619	IY68757	IY68772
IY68793	IY68842	IY68885	IY69103	IY69341
IY69344	IY69466	IY69517	IY69882	IY70006
IY70008	IY70234	IY70283	IY70284	IY70308
IY70320	IY70324	IY70604	IY70846	IY70912
IY70916	IY70951	IY71000	IY71001	IY71015
IY71336	IY71807	IY72224	IY72269	IY72790

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

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

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

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

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

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

Table 15. Scalable Collection Service APARs included from 4.2.2-CLL-FP01

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

Table 16. Scalable Collection Service APARs included from 4.2.2-CLL-FP02

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

Table 17. Scalable Collection Service APARs included from 4.2.2-CLL-0003

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

Table 18. Software Distribution APARs and defects included from 4.2.2-SWDSRV-0001, 4.2.2-SWDGW-0001, and 4.2.2-SWDEP-0001

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

Table 19. Software Distribution APARs and defects included from 4.2.2-SWDSRV-FP01, 4.2.2-SWDGW-FP01, 4.2.2-SWDJPS-FP01, and 4.2.2-SWDEP-FP01

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

Table 19. Software Distribution APARs and defects included from 4.2.2-SWDSRV-FP01, 4.2.2-SWDGW-FP01, 4.2.2-SWDJPS-FP01, and 4.2.2-SWDEP-FP01 (continued)

Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-FP01				
IY67416	IY67572	IY72490	IY73227	

Table 20. Software Distribution APARs and defects included from 4.2.2-SWDSRV-FP02, 4.2.2-SWDGW-FP02, 4.2.2-SWDJPS-FP02, and 4.2.2-SWDEP-FP02

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-FP02				
IY73540	IY73905	IY74805	IY74847	IY75068
IY75474	IY75754	IY76315	IY76698	IY77069
IY77071	IY77172	IY77526	IY77936	IY78598
IY78897	IY79008			
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-FP02				
IY73006	IY73565	IY74170	IY74392	IY74578
IY74585	IY74764	IY74801	IY75145	IY75236
IY75263	IY75474	IY75754	IY76010	IY76041
IY76100	IY76694	IY76831	IY77172	IY77261
IY77363	IY77516	IY77601	IY77602	IY77689
IY78072	IY78195	IY79151	IY79299	
Software Package Editor, Version 4.2.2, 4.2.2-SWDJPS-FP02				
IY76008	IY77361	IY77833		
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-FP02				
IY73006	IY73565	IY74170	IY74293	IY74392
IY74801	IY75236	IY75754	IY75778	IY76008
IY76041	IY76100	IY76488	IY76968	IY77361
IY77508	IY77833			

Table 21. Software Distribution APARs and defects included from 4.2.2-SWDSRV-F2P1, 4.2.2-SWDGW-F2P1, 4.2.2-SWDJPS-F2P1, and 4.2.2-SWDEP-F2P1

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

Table 22. Activity Planner APARs and defects included from 4.2.2-APM-0001

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

Table 23. Activity Planner APARs and defects included from 4.2.2-APM-FP01

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

Table 24. Activity Planner APARs and defects included from 4.2.2-APM-FP02

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

Table 25. Activity Planner APARs and defects included from 4.2.2-APM-F2P1

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

Table 26. Change Manager APARs included from 4.2.2-CCM-FP01

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

Table 27. Change Manager APARs and defects included from 4.2.2-CCM-FP02

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

Table 28. Resource Manager APARs and defects included from 4.2.2-TRMSRV-FP01, and 4.2.2-TRMGW-FP01

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

Table 29. Web Interface APARs and defects included from 4.2.2-WEB-FP01

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

Table 30. Web Interface APARs and defects included from 4.2.2-WEBEP-F2P1

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

Table 31. Pristine Manager and Pristine Manager Gateway APARs included from 4.2.2-PMSRV-FP01 and 4.2.2-PMGW-FP01

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

Table 32. Directory Query APARs and defects included from 4.2.2-QDY-F2P1

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

## Installation

This section describes how to install fix pack 3 to upgrade the various components of IBM Tivoli Configuration Manager, Version 4.2.2. The method of installation depends on the component you are upgrading. After you have installed the fix pack, you cannot uninstall it automatically. Ensure that you perform a complete backup of your system before installing this fix pack.

This section includes the following topics:

- “Hardware and software requirements”
- “Traditional fix pack installation methods” on page 24
- “Software package block (SPB) fix pack installation for GUI components” on page 27
- “Updating the Inventory schema” on page 30
- “Upgrading plug-ins” on page 30

## Hardware and software requirements

This section includes the following topics:

- “Supported platforms”
- “System requirements” on page 24

### Supported platforms

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

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

## System requirements

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

## Traditional fix pack installation methods

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

- “Installing fix packs using ISMP”

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

- “Installing fix packs using the Tivoli desktop” on page 25

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 25

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 26

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:
  - On Windows platforms, `setup.exe -cmpatch`
  - On all other platforms, `setup_$(INTERP).bin -cmpatch`, where `$(INTERP)` represents the operating system on which you are launching the upgrade process.
2. Accept the Software License Agreement. Click **Next**.
3. Select the `/xml` subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 CD (1 of 2). Click **Next**.
4. The actions necessary to upgrade your environment are being generated. When the process completes, a panel displays the fix pack components you must install. Click **Next**.
5. Select one of the following Depot options:



### Query when needed

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

### Verify local depot

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

### Remote

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

Click **Next**.

6. In the Step List, select the steps you want to run. Change the status of steps you do not want to run immediately to Held.
7. Click **Run All** to run all steps whose status is Ready or click **Run Next** to run steps individually.

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

## Installing fix packs using the Tivoli desktop

When installing fix packs using the Tivoli desktop, the images are located in the images subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 CD (1 of 2). The Tivoli desktop can upgrade the same product on multiple workstations sequentially.

The basic procedure for using the Tivoli desktop to upgrade a product is as follows:

1. From the Tivoli desktop, select **Install->Install Patch** from the Desktop menu.
2. Select the media and component to be upgraded.
3. Select the workstations where the component is to be upgraded.
4. Click **Install**.

For detailed information about using the Tivoli desktop to install or upgrade products, see *Tivoli Enterprise™: Installation Guide*.

## Installing fix packs using the CLI

When upgrading products using the **wpatch** command, specify the name of the index file using the file shown in Table 33 on page 26. When using the **wpatch** command to upgrade a product, you specify the following information on the command line:

- The location of the image on the installation media.
- The name of the index file associated with the product to be installed or upgraded.
- The workstations where the image is to be installed.

### Example:

```
wpatch -c CD-ROM/images -i index file managed node
```

where:

**-c CD-ROM/images**

Specifies the path to the images on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 CD (1 of 2).

**-i index file**

Specifies the product installation index file to which the fix pack is installed.

**managed node**

Specifies the managed node on which the fix pack is installed.

If you do not specify a workstation when running the **wpatch** command, the image is installed on all managed nodes in the Tivoli region where there is a prior version of this image.

For detailed information about using the **wpatch** command, see *Tivoli Management Framework: Reference Manual*.

The following table contains a list of IND files included in this fix pack.

*Table 33. IND files for components*

IND file	Component name	Tag
422INVFP	Inventory, Version 4.2.2	4.2.2-INV-FP03
422LCFFP	Inventory Gateway, Version 4.2.2	4.2.2-INVGW-FP03
422CLLFP	Scalable Collection Service, Version 4.2.2	4.2.2-CLL-FP03
SWDFP3	Software Distribution, Version 4.2.2	4.2.2-SWDSRV-FP03
SDGWFP3	Software Distribution Gateway, Version 4.2.2	4.2.2-SWDGW-FP03
SDJFP3	Software Package Editor, Version 4.2.2	4.2.2-SWDJPS-FP03
APMFP3	Activity Planner, Version 4.2.2	4.2.2-APM-FP03
CCMFP3	Change Manager, Version 4.2.2	4.2.2-CCM-FP03
TRMFP3	Resource Manager, Version 4.2.2	4.2.2-TRMSRV-FP03
TRMGWFP3	Resource Manager Gateway, Version 4.2.2	4.2.2-TRMGW-FP03
WEBUIFP3	Web Interface, Version 4.2.2	4.2.2-WEB-FP03
PMFP3	Pristine Manager 4.2.2	4.2.2-PMSRV-FP03
PMGWFP3	Pristine Manager Gateway 4.2.2	4.2.2-PMGW-FP03
DQYFP3	Directory Query 4.2.2	4.2.2-DQY-FP03

## 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 33.

Tivoli Software Installation Service does not distinguish between products and fix packs. Whether the installation image is used for an installation or upgrade, Tivoli Software Installation Service refers to all installation images as products.

Tivoli Software Installation Service can install multiple products on multiple workstations in parallel. This software can install several products on several computer systems in less time than using the installation methods provided by Tivoli Management Framework.

The basic procedure for using Tivoli Software Installation Service to install products is as follows:

1. Import the product images into the Tivoli Software Installation Service depot.
2. Select the components to be installed.
3. Select the workstations where each component is to be installed.
4. Click **Install**.

For detailed information about using Tivoli Software Installation Service, see *Tivoli Enterprise: Installation Guide*.

## Software package block (SPB) fix pack installation for GUI components

To upgrade the GUI components of IBM Tivoli Configuration Manager using the SPB fix packs on endpoints or standalone workstations, use one of the following installation methods:

- “SPB Patch Installer” on page 29
- “Software Distribution server command” on page 29
- “Software Distribution disconnected command” on page 29

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

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

The default variables for each component defined in the SPB fix packs are listed in Table 34.

Table 34. Default variables defined in SPB fix packs

Variable	Value	Description
<b>Tivoli_APM_GUI_Fix.v4.2.2.FP03</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_CCM_GUI_Fix.v4.2.2.FP03</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.v4.2.2.FP03</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 Speditor GUI.
<b>Tivoli_SWDEP_NW_Fix.v4.2.2.FP03</b>		
target_dir	\$(product_dir)\SD422CLI	

Table 34. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
<b>Tivoli_SWDEP_OS2_Fix.v4.2.2.FP03</b>		
package_type	ALL	
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
<b>Tivoli_SWDEP_UNIX_Fix.v4.2.2.FP03</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 Speditor GUI.
<b>Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP03</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.v4.2.2.FP03</b>		
<b>Note:</b> This package has to be installed on the AS/400 system to which user wants to connect through Software Package Editor for AS/400.		
package_type	ALL	
target_dir	\$(product_dir)\speditor	
<b>Tivoli_WebUI_Fix.v4.2.2.FP03</b>		
AppServer	/opt/WebSphere/AppServer	Specifies the WebSphere Application Server home directory.
WebSrvDoc	/usr/IBMHttpServer/htdocs/en_US	Specifies the directory for the Web Server documentation.
LCF_LIBDIR	/opt/Tivoli/lcf/lib/aix4-r1	Specifies the LCFLIB directory for the endpoint.
<b>Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP03</b>		
CLUSTER_ENV	false	Specifies whether the cluster Tivoli Web Gateway Server is to be upgraded.
INTERP	aix4-r1	Specifies the INTERP of the Tivoli Web Gateway Server.
AppServer	/opt/WebSphere/AppServer	Specifies where the WebSphere Application Server home is located.
LCF_DATDIR	/opt/Tivoli/lcf/dat/1	Specifies the LCFDAT directory for the endpoint.
LCFROOT	/opt/Tivoli/lcf	Specifies the LCFROOT directory for the endpoint.
DMS.Destination	/usr/TivTWG	Specifies where the Tivoli Web Gateway is installed.
Hostname	hostname.domain	Specifies the Tivoli Web Gateway hostname.

## SPB Patch Installer

This installation method uses ISMP technology that you can use to install fix packs on an endpoint or standalone workstation to upgrade IBM Tivoli Configuration Manager, Version 4.2.2 GUI components. The SPB Patch Installer is supported on Microsoft® Windows, IBM AIX®, Solaris Operating Environment, Linux for Intel®, and HP-UX.

The following is a summary of the upgrade process using the SPB Patch Installer. Refer to the *SPB Patch Installer Guide* located in the `spb_installer` directory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 CD (2 of 2) for complete instructions on using this tool.

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

1. Insert the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 CD (2 of 2).
2. Locate and run the setup program located in the `spb_installer` directory.
  - On Windows, run the `setup.exe` file.
  - On all other platforms, run the `setup_platform.bin`.
3. Read the Welcome panel and click **Next**.
4. Specify the `CM422_SPB_FP03.xml` file for the fix pack located in the `/package` subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 3 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 35 on page 30.
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 35 contains the names of the fix pack 3 software package blocks and the names of the software profiles that must be used when using SPBs to install components. IBM Tivoli Configuration Manager, Version 4.2.2 GA SPBs are a prerequisite of the fix pack SPBs.

Table 35. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_APM_GUI_Fix.v4.2.2.FP03.spb	Tivoli_APM_GUI_Fix.v4.2.2.FP03
Tivoli_CCM_GUI_Fix.v4.2.2.FP03.spb	Tivoli_CCM_GUI_Fix.v4.2.2.FP03
Tivoli_SWDEP_\$(interp)_Fix.v4.2.2.FP03.spb	Tivoli_SWDEP_\$(interp)_Fix.v4.2.2.FP03
Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP03.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP03
Tivoli_SWDEP_400PS_Fix.v4.2.2.FP03.spb	Tivoli_SWDEP_400PS_Fix.v4.2.2.FP03
Tivoli_WebUI_Fix.v4.2.2.FP03.spb	Tivoli_WebUI_Fix.v4.2.2.FP03
Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP03.spb	Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP03

## Updating the Inventory schema

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

This fix pack installation places a file named `inv_db_vendor_custom_422_FP03.sql` on the managed nodes where the patch is installed, in the following directory:

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

where `db_vendor_custom` 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_custom_422_FP0x.sql` and `h_inv_db_vendor_421_FP0x.sql` (where  $x = 1$  or  $2$ ) scripts again.

For instance, if you use DB2 and install this fix pack over a 4.2.2 GA Version you need to run the following scripts:

- `inv_db2_422_FP01.sql`
- `inv_db2_422_FP02.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.

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

## Upgrading plug-ins

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

### Activity Planner

If you have installed 4.2.2-APM-FP03, 4.2.2-SWDSRV-FP03, and 4.2.2-INV-FP03, run the following scripts located in the \$BINDIR/TME/APM/SCRIPTS directory. You need the APM\_Admin Tivoli region authorization role to run them.

- sh reg\_swd\_plugin.sh -r
- sh reg\_inv\_plugin.sh -r
- sh reg\_tl\_plugin.sh -r

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

### Change Manager

If you have installed 4.2.2-CCM-FP03, 4.2.2-SWDSRV-FP03, and 4.2.2-INV-FP03, run the following scripts located in the \$BINDIR/TME/CCM/SCRIPTS directory. You need the CCM\_Admin Tivoli region authorization role to run them.

- sh reg\_swd\_plugin.sh -r
- sh reg\_invscan\_plugin.sh -r

---

## Implementing the concurrent login feature

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

If you have already installed and configured the login feature with fix pack 1 or later, you do not need to perform the steps described below.

### Installing the concurrent login feature

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

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

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

1. Install the **4.2.2-SWDSRV-FP03** Software Distribution server patch to update the Software Distribution command line and GUI.
2. Install the **4.2.2-SWDGW-FP03** Software Distribution gateway patch to update Windows endpoints.
3. Install the **4.2.2-APM-FP03** Activity Planner patch to update the Activity Planner GUI.
4. Upgrade the Activity Planner plug-ins, as described in “Upgrading plug-ins” on page 30.
5. Distribute the **Tivoli\_login\_control\_4.2.2.spb** software packages to the endpoints.
6. Type the following command to enable the feature on the specified endpoint:  
`wep endpoint_name set allow_distribution_control on`

where:



*endpoint\_name*

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

Repeat the command for each endpoint where the feature is to be enabled.

7. Download the `wdepcem.exe` file from the `/LoginControl` folder on CD 2 to the endpoints.

## Configuring the concurrent login feature

After installing the concurrent login feature as described in “Installing the concurrent login feature” on page 31, you can configure the registry keys created on the endpoints with the **Tivoli\_login\_control\_4.2.2.spb** software package.

The registry keys are created in the following locations within the Registry Editor:

- HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification
- HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification\upcall
- HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification\wmansd

To view and edit the registry keys, use the **wdepcem** command. For more information on this command, see “wdepcem” on page 36.

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

### Keys located in HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification

#### IsEnabled

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

#### TraceLevel

Specifies the tracing level. Supported values are as follows:

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

#### TracePath

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

#### DenyPopupEnabled

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

#### PopUpTimeout

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

#### LoginDeniedTitle

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

#### LoginDeniedMsg

Defines the text contained in the dialog box displayed on the endpoint if



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

#### **DenyLogonOnPauseError**

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

#### **LoginDeniedMsgOnPauseError**

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

#### **SwitchPopupDesktop**

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

#### **LogoffType**

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

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

#### **DefaultShutdownAllowdBeforeReset**

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

#### **CompletionPopupEnabled**

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

#### **CompletionProgramPath**

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

#### **CompletionPopupTitle**

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

#### **CompletionPopupMsg**

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

**ShutdownPopupEnabled**

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

**ShutdownPopupMsg**

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

**Keys located in HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification\upcall**

**LCF\_BINDIR**

Is the fully qualified path to the LCF\_BINDIR.

**LCF\_CACHEDIR**

Is the fully qualified path to the LCF\_CACHEDIR.

**LCF\_DATDIR**

Is the fully qualified path to the LCF\_DATDIR.

**UpcallProgram**

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

**UpcallTimeout**

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

**Keys located in HKEY\_LOCAL\_MACHINE\SOFTWARE\Tivoli\SWDnotification\wmansd**

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

**Message**

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

**Timeout**

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

**LogoffString**

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

**LogoffShutdownString**

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

**RestartString**

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

**DefaultAction**

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

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

**LeftLogonPopupEnabled**

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

**LeftLogonPopupMsg**

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

## wdepccem

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

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

### Options:

- r**           Unlocks a workstation that has been locked by mistake.
- g *property***  
              Displays the setting defined for the specified registry key.
- s *property***  
              Defines a setting for the specified registry key, as follows:
  - e [true | false]**  
              Specifies whether the concurrent login feature is enabled. Supported values are **true**, which means that the feature is enabled, and **false**, which means that the feature is disabled. The default value is **true**.
  - p [true | false]**  
              Specifies whether a message must be displayed on the endpoint to notify the user that login is temporarily disabled. Supported values are **true**, which means that the dialog is displayed, and **false** which means that the dialog is not displayed. The default value is **true**.
  - t *timeout***  
              Specifies how many seconds the message must be displayed on the endpoint if you set the **-p** option to **true**. The default value is **10**.
  - l *popup\_title***  
              Defines the title of the dialog box displayed on the endpoint if you set the **-p** option to **true**. The default value is SWDNotification.
  - L *popup\_msg***  
              Defines the text contained in the dialog box displayed on the endpoint if you set the **-p** option to **true**. The default value is: "Distribution in progress\r\nLogon temporarily disabled."
  - m [true | false]**  
              Specifies whether the user can be allowed to log in to the workstation if an error occurs during an attempt to pause the distribution. Supported values are **true**, which means the user is not allowed to log in, and **false**, which means the user is allowed to log in. The default value is **true**.
  - M *popup\_msg***  
              Defines the text contained in the dialog box displayed on the endpoint if the distribution cannot be paused and you set the **-m** option to **true**. When customizing the message, you can use the \r\n symbols for inserting a carriage return and the \$(DIST\_ID) variable which is replaced at run time with the distribution ID. The default value is: "The pause failed for distribution \$(DIST\_ID)\r\nContact the system administrator."
  - x *level***   Specifies the tracing level. Supported values are as follows:
    - 0**           Traces are disabled. This is the default value.

- 1 Standard tracing is enabled.
  - 2 Verbose tracing is enabled.
- y** *pathname*  
Specifies the full path and name of the trace files. The default value is: \$(system\_drive)\SWDnotification.log.
- s** [**true** | **false**]  
Specifies whether the message displayed on the endpoint if you set the **-p** option to **true**, must be shown on a new Windows desktop. Supported values are **true**, which means a new Windows desktop is used, and **false**, which means the default desktop is used. The default value is **true**.
- d** *max\_shutdowns*  
Defines the number of shutdown operations after which the user is allowed to log in again. This key prevents the user from being irrecoverably logged out of the workstation. The default value is 20.
- o** [0 | 1 | 2]  
Specifies which type of logoff must be performed. Supported values are as follows:
- 0 Performs a standard logoff. This is the default value.
  - 1 Performs a forced logoff ending all active processes.
  - 2 Performs a logoff ending also hung processes.
- c** [**true** | **false**]  
Specifies whether a message is displayed on the endpoint to notify the user that the distribution has completed and log in is allowed. Supported values are **true**, which means the message is displayed, and **false**, which means the message is not displayed. The default value is **true**.
- b** *pathname*  
Specifies the path to the application that manages the message to be displayed if you set the **-c** option to **true**. Use this key if you modified the path where wcompmsg.exe is installed or if you want to use a different application for managing the message.
- u** *popup\_title*  
Defines the title of the dialog box displayed on the endpoint if you set the **-c** option to **true**. The default value is SWDNotification.
- v** *popup\_msg*  
Defines the text contained in the dialog box displayed on the endpoint if you set the **-c** option to **true**. When customizing the message, you can use the \r\n symbols for inserting a carriage return. The default value is: "Distribution complete\nLogon is now permitted."
- w** [**true** | **false**]  
Specifies whether a message is displayed when you attempt to perform a shutdown during a distribution for which the shutdown has been disabled. You must choose between performing a logoff immediately, performing a restart immediately, or performing a logoff immediately and subsequently a shutdown when the distribution completes. See also the - H option. Supported values

are **true**, which means the message is displayed, and **false**, which means the message is not displayed. The default value is **true**.

**-z** *shut\_popup\_msg*

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

**-B** *pathname*

Specifies the fully qualified path to the LCF\_BINDIR.

**-C** *pathname*

Specifies the fully qualified path to the LCF\_CACHEDIR.

**-D** *pathname*

Specifies the fully qualified path to the LCF\_DATDIR.

**-U** *pathname*

Specifies the fully qualified path to the application which communicates with the gateway.

**-W** *timeout*

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

**-E** *popup\_title*

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

**-F** *popup\_msg*

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

**-G** *timeout*

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

**-T** *logoff\_str*

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

**-H** *logoff\_and\_shut*

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

**-K** *restart\_str*

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

**-J** [1 | 2 | 3]

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

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

**-P** [true | false]

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

**-Q** *message*

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

**Return Values:** The **wdepccm** command returns one of the following:

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

**other than zero**

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

**Examples:**

1. To display the value set for the **-p** option, type the following command:  
wdepccm -g p
2. To set the default action to be performed when the timeout expires so that an immediate logoff is performed, type the following command:  
wdepccm -s J 1



## Using the concurrent login feature

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

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

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

- waccpst
- 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 defined as **first** or **both**. It applies to software packages defined as **first**, **middle**, **last**, or **both**. Supported values are **0** (no login is allowed), **-1** (an unlimited number of logins is allowed), and any positive integer. If a login is performed while the distribution is taking place, the distribution is paused until the user performs a logoff.

### **-W**

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



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

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

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

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

#### **Max Login Allowed**

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

#### **Disable Shutdown**

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

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

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

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## Documentation notes

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

### New information contained in this fix pack

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

#### User's Guide for Software Distribution

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

- **APAR IY85208**

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

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

#### Reference Manual for Software Distribution

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

- **Defects 57682 and 57685**

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

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

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

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

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

### Documentation problems and corrections contained in this fix pack

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

#### Reference Manual for Software Distribution

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

- **APAR IY85208**

The description of the `execute_user_program` stanza does not include an explanation of the behavior if the timeout is set to 0. If

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

## New information contained in previous fix packs

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

### User's Guide for Software Distribution

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

- **APAR IY53218**

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

#### Cloning software packages from the Tivoli desktop

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

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

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

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

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

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

- **APAR IY74801**

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

#### resinit\_one\_reboot

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

- **APAR IY76694**

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

#### resinit\_reboot\_forced

Identifies the resinit behavior on the endpoint, in case a reboot is

needed. If you change the default value `resinit_reboot_forced=n` and set it to `y`, you specify a hard reboot of the machine.

- **APAR IY78490**

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

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

## User's Guide for Deployment Services

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

- **APAR IY65552**

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

### Error messages are truncated

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

- **Feature 56137**

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

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

### `-Dis_cancel_preferred=y`

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

- **APAR IY74288**

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

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

### `-u user@hostname.domain`

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

- **APAR IY75060**

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

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

### `APM_RPC_MAX_THREADS`

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

## Planning and Installation Guide

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

#### Defect 53849

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

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

#### Defect 53479

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

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

### Reference Manual for Software Distribution

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

- **Defect 51869**

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

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

- **APAR IY66515**

In Chapter 1. Editing the Software Package Definition File, Software Package Name and Version section, add the following sentence at the end of the first list: The length of the string that defines the name and version of a software package can vary depending on how you distribute the software package:

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

- **Feature 54613**

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

- waccpst
- wcommtsp
- winstsp
- wspmvdta
- wremovsp
- wundosp

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

Defines a set of software packages for which user login and shutdown operations can be disabled while the distribution is taking place. If you define a package as **first**, this package is the first in a series for which you can define these options. Define the other packages in the series as

**middle** and the last package as **last**. A software package defined as **last** must exist for each software package defined as **first**. If the series consists of just one package, define this package as **both**, which means the software package is both first and last in the series. The default value is **none** which means user login and shutdown operations cannot be disabled.

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

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

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

- **APAR IY72490:**

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

**wdlssp**

**wdlssp -B.**

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

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

- **Defect 34131**

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

**message\_dir\_usable\_quota**

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

- **APAR IY78490**

In Chapter 1 "Editing the Software Package Definition File", in the section "General Stanzas", in the subsection "Setting Up Before and After Programs on the Endpoint" add the following note in the Notes ordered list of the subsection:

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

## User's Guide for Inventory

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

### APAR IY68383

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

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

## Messages and Codes

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

- **Defect 55265**

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

---

AMN4060E The application referenced by the selected activity does not provide a monitor GUI.

for an activity, which is not a software distribution, is not available.

**System action:** The operation is not performed.

**Explanation:** The MDist 2 GUI you are trying to open

## Documentation problems and corrections contained in previous fix packs

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

### User's Guide for Software Distribution

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

- **APAR IY53753**

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

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

- **APAR IY58534**

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

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

- **APAR IY73165**

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

However, do not use depots for extremely large distributions.

- **APAR IY77361**



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

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

- **APAR IY78727**

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

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

## Reference Manual for Software Distribution

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

- **APAR IY71708**

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

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

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

## User's Guide for Deployment Services

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

- **APAR IY65042**

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

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

- **APAR IY66346**

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

- RIM\_view or RIM\_update role, depending on database operation.



as follows:

- RIM\_view and RIM\_update roles.

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

Activity Planner roles and operations, add the RIM\_view and RIM\_Update roles in all the cells of the **Required roles** column.

- **APAR IY70370**

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

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

## Planning and Installation Guide

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

- **APAR IY58932**

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

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

- Windows 2000
- Windows XP
- Windows Server 2003

with the following two paragraphs:

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

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

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

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

- **APAR IY68178**

In Chapter 4, section "Upgrading Database Scripts", sub-section "Upgrading From IBM Tivoli Configuration Manager Version 4.2" replace the paragraph that describes how to upgrade to Software Distribution 4.2.2 with the following text:

The Software Distribution upgrade from 4.2 to 4.2.2 does not require any upgrade script for the database repository.

- **APAR IY68188**

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

IBM DB2®

into:

IBM DB2 Server

- **APAR IY71740**

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

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

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

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

## User's Guide for Inventory

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

- **APAR IY72012**

In Appendix B, add the following sentence for commands **wdistinv** and **winvmgr**, at the end of the **wake\_on\_lan** description:

If you set this option in an InventoryConfig profile, its value overrides the **wake\_on\_lan** keyword value.

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

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

- **Defect 185685**

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

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

- **Defect 55565**

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

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

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

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

**-n** *file\_name*

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

**swsigs.txt**

Contains Inventory signatures.

**wsusscan.cab**

Contains the security policy catalog.

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

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

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

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

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

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

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

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

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

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

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

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

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

## Database Schema Reference

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

- **APAR IY79105**

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

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

## Release Notes®

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

- **APAR IY70318**

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

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

Workaround: Change the collate to SQL\_Latin1\_General\_CP1\_CI\_AS and the primary language of the user owning the Change Manager tables to English.

- **APAR IY71166**

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

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

Workaround: Open Software Package Editor using the Tivoli desktop.

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## Chapter 2. Support information

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

- “Searching knowledge bases”
- “Obtaining fixes”
- “Contacting IBM Software Support” on page 54

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### Searching knowledge bases

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

#### Search the information center on your local system or network

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

#### Search the Internet

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

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

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### Obtaining fixes

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

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

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

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

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

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## Contacting IBM Software Support

IBM Software Support provides assistance with product defects.

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

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

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

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

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

## Determine the business impact of your problem

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

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

## Describe your problem and gather background information

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

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

## Submit your problem to IBM Software Support

You can submit your problem in one of two ways:

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

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

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





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