

IBM Tivoli Configuration Manager



Readme File for Fix Pack 4 - PTF U810389

Version 4.2.2

IBM Tivoli Configuration Manager



Readme File for Fix Pack 4 - PTF U810389

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 4

This edition applies to fix pack 4 (PTF U810389) for version 4, release 2, modification level 2 of IBM Tivoli Configuration Manager (program number 5724-C06).

© Copyright International Business Machines Corporation 2003, 2006. All rights reserved.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

Tables	v
-------------------------	----------

Chapter 1. IBM Tivoli Configuration Manager 4.2.2 Readme File for Fix Pack 4 (PTF U810389) **1**

About this release	1
CD-ROM structure	1
New features	2
New features in this fix pack	2
New features in previous fix packs	2
Backward compatibility issues	5
Product compatibility	5
Limitations	5
Limitations in DBCS environments	6
Product fix history	6
Fixes contained in this fix pack	7
Inventory	7
Scalable Collection Service	11
Software Distribution	11
Activity Planner	13
Change Manager	16
Resource Manager	16
Web Interface	16
Pristine Manager and Pristine Manager Gateway	16
Fixes contained in previous fix packs and interim fixes	16
Installation	22
Hardware and software requirements	22
Supported platforms	22
System requirements	23
Traditional fix pack installation methods	23
Installing fix packs using ISMP	23
Installing fix packs using the Tivoli desktop	24
Installing fix packs using the CLI	24
Installing fix packs using SIS	25
Software package block (SPB) fix pack installation for GUI components	26
SPB Patch Installer	28
Software Distribution server command	28
Software Distribution disconnected command	29
Software package block fix packs	29

Updating the Inventory schema	29
Upgrading plug-ins	30
Implementing the concurrent login feature	30
Installing the concurrent login feature	30
Configuring the concurrent login feature	31
wdepccm	35
Using the concurrent login feature	39
Documentation notes	41
New information contained in this fix pack	41
Documentation problems and corrections contained in this fix pack	41
New information contained in previous fix packs	41
User's Guide for Software Distribution	41
User's Guide for Deployment Services	42
Planning and Installation Guide	43
Reference Manual for Software Distribution	43
User's Guide for Inventory	45
Messages and Codes	45
Documentation problems and corrections contained in previous fix packs	46
User's Guide for Software Distribution	46
Reference Manual for Software Distribution	47
User's Guide for Deployment Services	47
Planning and Installation Guide	48
User's Guide for Inventory	49
Database Schema Reference	50
Release Notes	50

Chapter 2. Support information **53**

Searching knowledge bases	53
Search the information center on your local system or network	53
Search the Internet	53
Obtaining fixes	53
Contacting IBM Software Support	54
Determine the business impact of your problem	55
Describe your problem and gather background information	55
Submit your problem to IBM Software Support	55

Notices **57**

Trademarks	58
----------------------	----

Tables

1. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 4 (CD 1 of 2)	1
2. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 4 (CD 2 of 2)	1
3. Customer enhancement request references in this fix pack.	2
4. Customer enhancement request references in previous fix packs.	2
5. Interim fixes included in this fix pack	7
6. Inventory APARs and defects included in this fix pack	7
7. Scalable Collection Service APARs included in this fix pack	11
8. Software Distribution APARs and defects included in this fix pack	11
9. Activity Planner APARs and defects included in this fix pack	13
10. Change Manager APARs included in this fix pack	16
11. Inventory APARs and defects included from 4.2.2-INV-FP01 and 4.2.2-INVGW-FP01	16
12. Inventory APARs and defects included from 4.2.2-INV-0007 and 4.2.2-INVGW-0007.	17
13. Inventory APARs and defects included from 4.2.2-INV-FP02 and 4.2.2-INVGW-FP02	17
14. Inventory APARs and defects included from 4.2.2-INV-0010 and 4.2.2-INVGW-0010.	17
15. Inventory APARs and defects included from 4.2.2-INV-FP03 and 4.2.2-INVGW-FP03	17
16. Scalable Collection Service APARs included from 4.2.2-CLL-FP01	17
17. Scalable Collection Service APARs included from 4.2.2-CLL-FP02	18
18. Scalable Collection Service APARs included from 4.2.2-CLL-0003.	18
19. Scalable Collection Service APARs included from 4.2.2-CLL-FP03	18
20. Software Distribution APARs and defects included from 4.2.2-SWDSRV-0001, 4.2.2-SWDGW-0001, and 4.2.2-SWDEP-0001	18
21. 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	18
22. 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	19
23. Software Distribution APARs and defects included from 4.2.2-SWDSRVF2P1, 4.2.2-SWDGW-F2P1, 4.2.2-SWDJPS-F2P1, and 4.2.2-SWDEP-F2P1	20
24. Software Distribution APARs and defects included from 4.2.2-SWDSRV-FP03, 4.2.2-SWDGW-FP03, and 4.2.2-SWDEP-FP03.	20
25. Activity Planner APARs and defects included from 4.2.2-APM-0001	20
26. Activity Planner APARs and defects included from 4.2.2-APM-FP01	20
27. Activity Planner APARs and defects included from 4.2.2-APM-FP02	20
28. Activity Planner APARs and defects included from 4.2.2-APM-F2P1	21
29. Activity Planner APARs and defects included in 4.2.2-APM-FP03	21
30. Change Manager APARs included from 4.2.2-CCM-FP01	21
31. Change Manager APARs and defects included from 4.2.2-CCM-FP02	21
32. Change Manager APARs included in 4.2.2-CCM-FP03	21
33. Resource Manager APARs and defects included from 4.2.2-TRMSRV-FP01, and 4.2.2-TRMGW-FP01	21
34. Web Interface APARs and defects included from 4.2.2-WEB-FP01	21
35. Web Interface APARs and defects included from 4.2.2-WEBEP-F2P1	22
36. Pristine Manager and Pristine Manager Gateway APARs included from 4.2.2-PMSRV-FP01 and 4.2.2-PMGW-FP01	22
37. Directory Query APARs and defects included from 4.2.2-QDY-F2P1	22
38. IND files for components	25
39. Default variables defined in SPB fix packs	26
40. Names of SPB files and software profiles	29

Chapter 1. IBM Tivoli Configuration Manager 4.2.2 Readme File for Fix Pack 4 (PTF U810389)

This readme file provides important information about Fix Pack 4 (PTF U810389) 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.

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 6
- “Product fix history” on page 6

CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 4 includes *two* CDs:

Table 1. IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 4 (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 4 (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

Configure the Ignore option results in APM	Feature 58122
--	---------------

Configure the Ignore option results in APM - Feature 58122

A new checkbox has been added to customize the behavior of the Activity Planner Monitor for those targets failing the CM_STATUS validity check for a software distribution (SWD) activity when the "Ignore" option is set. This new checkbox will be enabled only when the "Ignore" checkbox is set. When the checkbox is set, all targets on which the validation fails will be marked as 'failed'. If this checkbox is not checked (default) the old behavior will be in effect: targets for which the validation failed will be marked as successful.

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
Stop on failure check box	Feature 56087
Cancel as preferred final status for a plan	Feature 56137
New 32-bit MRMBIOS.EXE	Feature 180357
Customize the source host for Data Moving Endpoint to Endpoint send and delete.	Feature 57318

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 **wspmvddata** 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 do not 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 30.

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 issue 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.

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:

```
wswdcfg -s datamoving_source_host=ManagedNode name
```

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

- 4.1.1-TMF-0070 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-0038 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 4 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” on page 7
- “Fixes contained in previous fix packs and interim fixes” on page 16

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-TIV-INV-FP0004	Inventory, Version 4.2.2
4.2.2-TIV-INVGW-FP0004	Inventory Gateway, Version 4.2.2
4.2.2-TIV-CLL-FP0004	Scalable Collection Services, Version 4.2.2
4.2.2-TIV-SWDSRV-FP0004	Software Distribution, Version 4.2.2
4.2.2-TIV-SWDGW-FP0004	Software Distribution Gateway, Version 4.2.2
4.2.2-TIV-SWDJPS-FP0004	Software Package Editor, Version 4.2.2
4.2.2-TIV-APM-FP0004	Activity Planner, Version 4.2.2
4.2.2-TIV-CCM-FP0004	Change Manager, Version 4.2.2
4.2.2-TIV-TRMSRV-FP0004	Resource Manager, Version 4.2.2
4.2.2-TIV-TRMGW-FP0004	Resource Manager Gateway, Version 4.2.2
4.2.2-TIV-WEB-FP0004	Web Interface, Version 4.2.2
4.2.2-TIV-PMSRV-FP0004	Pristine Manager 4.2.2
4.2.2-TIV-PMGW-FP0004	Pristine Manager Gateway 4.2.2
4.2.2-TIV-DQY-FP0004	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-TIV-INV-FP0004 and 4.2.2-TIV-INVGW-FP0004				
IY84371	IY84708	IY84735	IY85530	IY85784
IY86092	IY86231	IY86785	IY87279	IY87283
IY89087	IY89270	IY90419	IY90507	IY90993
IY91186				

The following section describes each APAR or defect in detail:

APAR IY84371

Abstract:

Problem with GUI opening the subscribers window to select target

Error Description:

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

APAR IY84708

Abstract:

Inventory DATAHANDLER core dump when output queue has a blank

Error Description:

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

APAR IY84735

Abstract:

'*' In COMPUTER_SYS_ID when guid is shorter than 28 characters

Error Description:

Inventory pads the guid string with '*' if guid size is shorter than 28 characters on windows Endpoint. For instance, when the wep command sets a GUID registry entry to 9 characters long.

APAR IY85530

Abstract:

Software scan not showing hotfixes

Error Description:

An installed hotfix is skipped by the SW scan for some machines. A more explicative message in libInvHW.log (saying that this entry skipped by HW scan could be skipped by SW scanner) could help to find out the reason for this SW scan behavior.

APAR IY85784

Abstract:

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

Error Description:

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

The directory mcollect is created by the user who runs inv_config_ep_meths (usually it is root) while the directory is accessed by the user who runs Endpoint_prog1 (mc_get_data) and it is nobody or tmersrvd.

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

If you create the user / group nobody, then root is able to give to nobody ownership of mcollect, so you avoid seeing 777.

However, the method mc_get_data is still running as tmersrvd and this user does not have permissions to access mcollect. This is why .DON is not created under mcollect and .DATs of previous scans are not deleted.

APAR IY86092

Abstract:

APM_CALLBACK.CONF is left under TMR \$DBDIR

Error Description:

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

APAR IY86231

Abstract:

INV_RCV_METHS core dumps if tec rim object does not exist

Error Description:

The following error appears when running the command:

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

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

If you run:

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

and then:

```
objcall 1705024819.1.59 _get_application_type
_get_application_type: FRW0G0030E method not found
```

This causes inv_rcv_meths to crash.

APAR IY86785**Abstract:**

Disabling WMI when detecting cpu-family

Error Description:

WMI detects incorrect cpu-family. Disabling WMI using env variable NO_WMI_FAMILY.

APAR IY87279**Abstract:**

Inventory CM4.2.2 FP03 plug-ins do not manage -r (same as IY87278)

Error Description:

The following Inventory CM 4.2.2 FP03 plug-ins do not manage the "-r " option:

1. reg_inv_plugin.sh for APM
2. reg_invscan_plugin.sh for CCM

APAR IY87283**Abstract:**

Inventory 4.2.2- FP03 command WSCANNER.EXE failed

Error Description:

Wscanner fails if a wrong mrmibios.mif has been generated or if the BIOS_DATE field contains a value longer than 8 characters.

APAR IY89087**Abstract:**

Duplicate logical disk partition detection for Win XP/2K

Error Description:

On Windows XP/2K, the wscanner always uses the legacy algorithm to discover the logical disks, causing duplicate partitions to be detected.

APAR IY89270**Abstract:**

MEMTOTAL from VMWARE Linux not showing total memory

Error Description:

The Hardware scan for VMware version 2.5.1 gives the information for the VMWare console instead of the whole server. For example we see 250 megabytes for the memory whereas it is really 4 gigabytes.

APAR IY90419**Abstract:**

Hardware scan does not list correct processor types for all processors in multi-processor Solaris server

Error Description:

The hardware scan of a Solaris Server with multiple processors does not report the correct types. All processors show as UltraSPARC III+. In LibInvHW.logprocessor types are listed as US-III+, US-IV 2.3 and US-IV 3.1

APAR IY90507**Abstract:**

Inventory scans incorrect memory

Error Description:

The attribute "Total Physical" of the tivhscan.mif Group Memory shows incorrect values when the RAM is larger than 2 GB.

APAR IY90993**Abstract:**

INV_STAT_METHS core dumps after upgrade from 4.2.2 TCM FP02 to FP03.

Error Description:

/Tivoli/bin/solaris2/TME/INVENTORY/inv_stat_meths core dumps after upgrade from 4.2.2 TCM FP02 to FP03. Several lines like the following are logged into the oservlog:

```
2006/10/23 02:47:49 -01: ^Helper
/Tivoli/bin/solaris2/TME/INVENTORY/inv_stat_meths
(method:5539-scan_node_complete, PID:
```

APAR IY91186**Abstract:**

Inv_stat_meths on inventory data handler exits unexpectedly

Error Description:

The inv_stat_meths on Inventory Data Handler exits unexpectedly on Windows if LOG_FILE option is set through wsetinvglobal command:
wsetinvglobal -l LOG_FILE InventoryConfig:inventory_profile

This error occurs more frequently if a Data Handler on Windows is managing a large number of scans.

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-TIV-CLL-FP0004				
IY86174	IY87041	IY87975		

The following section describes each APAR in detail.

APAR IY86174

Abstract:

Multiple duplicate CTOCs in output queue of collector

Error Description:

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

APAR IY87041

Abstract:

4.2.3 Inventory - Blank CTOC causing Collector_prog1 core.

Error Description:

"blank ctoc" in the input/output queue causes the Collector_prog1 core.

APAR IY87975

Abstract:

WEPMCOLL.NLM abends

Error Description:

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

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

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

Software Distribution, Version 4.2.2, 4.2.2-TIV-SWDSRV-FP0004				
IY85493	IY85877	IY86341	IY87352	IY89298
IY91076	IY92137	IY92678		
Software Distribution Gateway, Version 4.2.2, 4.2.2-TIV-SWDGW-FP0004				
IY86926	IY89709	IY90729		
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-FP04				
IY86341	IY86926	IY89709	IY90729	

The following section describes each APAR or defect in detail.

APAR IY85493

Abstract:

Software Package log on Server starts with STANDARD OUTPUT/ERROR
END

Error Description:

The Software package logging on the server has the beginning trace marker as STANDARD OUTPUT/ERROR END instead of STANDARD OUTPUT/ERROR BEGIN.

APAR IY85877**Abstract:**

Does not receive log information after the DATAMOVING actions

Error Description:

On Windows Tivoli Management Region, when the key split_dm_log=y is set, and the datamoving log filename uses the character '/' as separator, the logfile is not written.

APAR IY86341**Abstract:**

Permissions change after distributing a native HP package.

Error Description:

After putting depot files in the /tmp directory on HP-UX systems, the target directory attributes changed from 777 to 755, as well as the owner and group.

APAR IY86926**Abstract:**

MSI INSTALLLEVEL variable issue

Error Description:

Every feature in MSI package has its own INSTALLLEVEL . The package has a default INSTALLLEVEL. If the feature-level is less than or equal to the package-installevel the feature is installed, otherwise it is not. However, if in the package I select the "action = install_local" on a feature, the feature should be installed in any case, even if the feature-level is greater than the package-installevel.

APAR IY87352**Abstract:**

Send fails if endpoint name does not contain region.

Error Description:

In interconnected regions, perform a SEND operation using as file the \$(ep_label) variable that contains targets below another region but without specifying the region name. The operation fails immediately.

APAR IY89298**Abstract:**

New traces added to the report area for a data moving operation.

Error Description:

Insufficient trace records are written when spde abends. Additional trace records were added to improve debugging and root cause analysis.

APAR IY89709**Abstract:**

Failure when executing a USER_PROGRAM during UNDO.

Error Description:

A package with a during_undo user program that runs in background causes failure of the package during the UNDO phase.

APAR IY90729**Abstract:**

Icon not replaced on windows shell link with REPLACE_IF_EXISTING attribute enabled.

Error Description:

A Windows shell link does not replace the existing one if the only difference between them is the icon.

APAR IY91076**Abstract:**

SWDMGR incorrectly calculates the Managed Node when a load is performed using the Activity Planner Monitor.

Error Description:

Submit a plan to load a SoftwarePackage on a Managed Node. The load succeeds and the report is sent to the TMR, but SWDMGR process is not able to associate the correct ManagedNode name to it.

APAR IY92137**Abstract:**

Check point restart does not correctly manage exception reports

Error Description:

Incorrect management of exception reports in conjunction with check point restart causes an spd_eng trap in dm_mdlist2_result method.

APAR IY92678**Abstract:**

Spd_eng crashes when receiving corrupted report.

Error Description:

SWD4.2.2 spd_eng crashes when receiving reports related to a RETRIEVE operation which were generated with SWD4.2 code.

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-TIV-APM-FP0004				
IY86738	IY87635	IY88552	IY89231	IY89499
IY89667	IY90259	IY90445	IY90871	IY91115
IY91436				

The following section describes each APAR in detail.

APAR IY86738**Abstract:**

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

Error Description:

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

APAR IY87635**Abstract:**

Activity Planner Monitor GUI launch fails if login name contains '.' symbol.

Error Description:

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

AMN4050E No role has been defined.

APAR IY88552**Abstract:**

Activity Planner Monitor activity timing is wrong if TZ is set to '(GMT+02:00) Harare, Pretoria'

Error Description:

If the Windows time zone is set to '(GMT+02:00) Harare, Pretoria', when submitting any activities through the Activity Planner, the started time shown is 2 hours earlier than the actual submission time.

APAR IY89231**Abstract:**

Activity Planner Monitor database locks are kept if endpoint hangs.

Error Description:

Many locks are found on Activity Planner Monitor database as a consequence of performance degradation in the Endpoint Manager. These locks increase the probability of a deadlock being generated between concurrent threads in Activity Planner Monitor.

APAR IY89499**Abstract:**

Out of memory problem with long running plans

Error Description:

The APM engine erroneously stores in the filesystem much more information than is actually needed and when there are long running plans this might create OutOfMemory problems. A filter has been added to discard all the useless data before it is stored in the filesystem.

APAR IY89667**Abstract:**

WDELSTAT does not delete the recursive plan

Error Description:

If 'wdelstat' command is launched to cancel the recursive plan when the plan has recursions still active (that is, before invoking 'wcntpln -Rs <plan_name>'), it deletes the completed recursions but does not delete the 'base instance'. This causes any subsequent wdelstat to fail. This fix allows

you to use the wdelstat command again (instead of wdelpln) if it had already been used without previously stopping the plan recursion (through wcntpln -Rs PlanName).

APAR IY90259

Abstract:

Wsubpln and wexppln fail when more than 200 targets are excluded.

Error Description:

If more than 200 targets are excluded in a plan, the wsubpln command fails as follows:

```
# wsubpln -r T20060810.3.0
AMN0040E The following error occurred during an attempt to
submit the plan: java.sql.SQLException: ResultSet - No such
column: SPEC_TYPE
```

And wexppln command fails as follows:

```
# wexppln -f ./exp.out T20060810.3.0
AMN2008E Unable to open IOM channel for getting result data.
```

APAR IY90445

Abstract:

Originhost blanked for plans created before CM422 FP03 installation

Error Description:

Submitting plans that involve data moving operations having a managed node as source host generate the following error:

```
DISSE0058E No Source Host was specified
```

APAR IY90871

Abstract:

Ignore flag is incorrectly changed from value T to F when submitting activity plans in XML format.

Error Description:

Submit from xml files an activity plan having the attribute Ignore set to T. During submission phase the flag Ignore is changed from T to F.

APAR IY91115

Abstract:

Improvement to wdelstat of recursive plans.

Error Description:

When a wdelstat of a recursive plan is performed, the session is committed only once, at the end. When thousands of recursions of the same plan are present in the database, this increases the possibility of a deadlock occurring. To avoid this problem, the wdelstat of recursive plans has been improved by giving the possibility to customize the delstat_commit_interval key in the apm.ini file. By default, the delstat_commit_interval value is 10, meaning that a commit will occur every 10 recursions of deleted plans. This key can be customized appropriately, depending on how many recursions of the same plan are present in the database.

APAR IY91436

Abstract:

Activity Planner Monitor disposable keyword impacts not-built nested SoftwarePackage

Error Description:

Submit a plan having DISPOSABLE=F and containing not-built nesting and nested software packages. The installation completes successfully but the entries related to the nested Software Package are left on the depot.

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-TIV-CCM-FP0004				
IY87278				

The following section describes the APAR in detail.

IY87278**Abstract:**

reg_sw_d_plugin.sh does not manage -r

Error Description:

CCM registration SWD plugin reg_sw_d_plugin.sh does not manage -r option.

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

Table 11. Inventory APARs and defects included from 4.2.2-INV-FP01 and 4.2.2-INVGW-FP01 (continued)

Inventory and Inventory Gateway, Version 4.2.2, 4.2.2-INV-FP01 and 4.2.2-INVGW-FP01				
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. Inventory APARs and defects included from 4.2.2-INV-FP03 and 4.2.2-INVGW-FP03

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			

Table 16. 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 17. 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 18. 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 19. Scalable Collection Service APARs included from 4.2.2-CLL-FP03

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

Table 20. 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 21. 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 21. 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 22. 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 23. 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 24. Software Distribution APARs and defects included from 4.2.2-SWDSRV-FP03, 4.2.2-SWDGW-FP03, and 4.2.2-SWDEP-FP03

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

Table 25. 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 26. 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 27. 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

Table 27. Activity Planner APARs and defects included from 4.2.2-APM-FP02 (continued)

Activity Planner, Version 4.2.2, 4.2.2-APM-FP02				
IY77871	IY78261	IY78280	IY78519	IY78730
IY78980				

Table 28. 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 29. Activity Planner APARs and defects included in 4.2.2-APM-FP03

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

Table 30. 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 31. 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 32. Change Manager APARs included in 4.2.2-CCM-FP03

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

Table 33. 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 34. 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 35. 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 36. 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 37. 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 4 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 23
- “Software package block (SPB) fix pack installation for GUI components” on page 26
- “Updating the Inventory schema” on page 29
- “Upgrading plug-ins” on page 30

Hardware and software requirements

This section includes the following topics:

- “Supported platforms”
- “System requirements” on page 23

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 24
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 24
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 25
The SIS console or SIS commands you use to specify the fix pack to install and on which target workstations to install them.

Installing fix packs using ISMP

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

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

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

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

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

1. Locate the setup executable and run the following command in the root directory of IBM Tivoli Configuration Manager, Version 4.2.2 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 4 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 4 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 38 on page 25. 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 4 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 38. IND files for components

IND file	Component name	Tag
422INVFP	Inventory, Version 4.2.2	4.2.2-TIV-INV-FP0004
422LCFFP	Inventory Gateway, Version 4.2.2	4.2.2-TIV-INVGW-FP0004
422CLLFP	Scalable Collection Service, Version 4.2.2	4.2.2-TIV-CLL-FP0004
SWDFP4	Software Distribution, Version 4.2.2	4.2.2-TIV-SWDSRV-FP0004
SDGWFP4	Software Distribution Gateway, Version 4.2.2	4.2.2-TIV-SWDGW-FP0004
SDJFP4	Software Package Editor, Version 4.2.2	4.2.2-TIV-SWDJPS-FP0004
APMFP4	Activity Planner, Version 4.2.2	4.2.2-TIV-APM-FP0004
CCMFP4	Change Manager, Version 4.2.2	4.2.2-TIV-CCM-FP0004
TRMFP4	Resource Manager, Version 4.2.2	4.2.2-TIV-TRMSRV-FP0004
TRMGWFP4	Resource Manager Gateway, Version 4.2.2	4.2.2-TIV-TRMGW-FP0004
WEBUIFP4	Web Interface, Version 4.2.2	4.2.2-TIV-WEB-FP0004
PMFP4	Pristine Manager 4.2.2	4.2.2-TIV-PMSRV-FP0004
PMGWFP4	Pristine Manager Gateway 4.2.2	4.2.2-TIV-PMGW-FP0004
DQYFP4	Directory Query 4.2.2	4.2.2-TIV-DQY-FP0004

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 38.

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 28
- “Software Distribution server command” on page 28
- “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 39.

Table 39. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_APM_GUI_Fix.v4.2.2.FP04		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_CCM_GUI_Fix.v4.2.2.FP04		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_SWDEP_PC_Fix.v4.2.2.FP04		
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.

Table 39. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
Tivoli_SWDEP_NW_Fix.v4.2.2.FP04		
target_dir	\$(product_dir)\SD422CLI	
Tivoli_SWDEP_OS2_Fix.v4.2.2.FP04		
package_type	ALL	
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_UNIX_Fix.v4.2.2.FP04		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where the JRE 1.3 is installed.
SPE_GUI	YES	Enables you to update the Speditor GUI.
Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP04		
target_dir	\$(product_dir)\speditoras400	The directory where the Software Package Editor for AS/400® is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_SWDEP_400PS_Fix.v4.2.2.FP04		
Note: This package has to be installed on the AS/400 system to which user wants to connect through Software Package Editor for AS/400.		
package_type	ALL	
target_dir	\$(product_dir)\speditor	
Tivoli_WebUI_Fix.v4.2.2.FP04		
AppServer	/opt/WebSphere/AppServer	Specifies the WebSphere Application Server home directory.
WebSrvDoc	/usr/IBMHttpServer/htdocs/en_US	Specifies the directory for the Web Server documentation.
LCF_LIBDIR	/opt/Tivoli/lcf/lib/aix4-r1	Specifies the LCFLIB directory for the endpoint.
Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP04		
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.

When you install the fix pack, if you are using the APM or CCM GUI components, you should also install the remote desktops at the same fix pack level.

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 4 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 4 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 `setup_$(INTERP).bin` where `$(INTERP)` represents the operating system on which you are launching the upgrade process.
3. Read the Welcome panel and click **Next**.
4. Specify the `422CMFP04.xml` file for the fix pack located in the `/package` subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 4 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 40 on page 29.
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 40 contains the names of the fix pack 4 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 40. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_APM_GUI_Fix.v4.2.2.FP04.spb	Tivoli_APM_GUI_Fix.v4.2.2.FP04
Tivoli_CCM_GUI_Fix.v4.2.2.FP04.spb	Tivoli_CCM_GUI_Fix.v4.2.2.FP04
Tivoli_INV_GUI_Fix.v4.2.2.FP04.spb	Tivoli_INV_GUI_Fix.v4.2.2.FP04
Tivoli_SWDEP_\$(interp)_Fix.v4.2.2.FP04.spb	Tivoli_SWDEP_\$(interp)_Fix.v4.2.2.FP04
Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP04.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP04
Tivoli_SWDEP_400PS_Fix.v4.2.2.FP04.spb	Tivoli_SWDEP_400PS_Fix.v4.2.2.FP04
Tivoli_WebUI_Fix.v4.2.2.FP04.spb	Tivoli_WebUI_Fix.v4.2.2.FP04
Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP04.spb	Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP04

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_FP04.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 $x = 1, 2$ or 3) 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`
- `inv_db2_422_FP03.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-TIV-APM-FP0004, 4.2.2-TIV-SWDSRV-FP0004, and 4.2.2-TIV-INV-FP0004, 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-TIV-CCM-FP0004, 4.2.2-TIV-SWDSRV-FP0004, and 4.2.2-TIV-INV-FP0004, 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-TIV-SWDSRV-FP0004** Software Distribution server patch to update the Software Distribution command line and GUI.
2. Install the **4.2.2-TIV-SWDGW-FP0004** Software Distribution gateway patch to update Windows endpoints.

3. Install the **4.2.2-TIV-APM-FP0004** 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 `wdepцем.exe` file from the `/LoginControl` folder on CD 2 to the endpoints.

Configuring the concurrent login feature

After installing the concurrent login feature as described in “Installing the concurrent login feature” on page 30, you can configure the registry keys created on the endpoints with the **Tivoli_login_control_4.2.2.spb** software package.

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

- HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification
- HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification\upcall
- HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification\wmansd

To view and edit the registry keys, use the **wdepцем** command. For more information on this command, see “wdepцем” on page 35.

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

Keys located in HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification

IsEnabled

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

TraceLevel

Specifies the tracing level. Supported values are as follows:

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

TracePath

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

DenyPopupEnabled

Specifies whether a message must be displayed on the endpoint to notify

the user that login is temporarily disabled. Supported values are **1**, which means that the dialog is displayed, and **0** which means that the dialog is not displayed. The default value is **1**.

PopUpTimeout

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

LoginDeniedTitle

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

LoginDeniedMsg

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

DenyLogonOnPauseError

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

LoginDeniedMsgOnPauseError

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

SwitchPopupDesktop

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

LogoffType

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

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

DefaultShutdownAllowdBeforeReset

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

CompletionPopupEnabled

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

CompletionProgramPath

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

CompletionPopupTitle

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

CompletionPopupMsg

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

ShutdownPopupEnabled

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

ShutdownPopupMsg

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

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

Is the fully qualified path to the LCF_BINDIR.

LCF_CACHEDIR

Is the fully qualified path to the LCF_CACHEDIR.

LCF_DATDIR

Is the fully qualified path to the LCF_DATDIR.

UpcallProgram

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

UpcallTimeout

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

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

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

Message

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

Timeout

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

LogoffString

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

LogoffShutdownString

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

RestartString

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

DefaultAction

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

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

LeftLogonPopupEnabled

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

LeftLogonPopupMsg

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

wdepccem

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

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

Options:

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

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

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

-e [true | false]

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

-p [true | false]

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

-t *timeout*

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

-l *popup_title*

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

-L *popup_msg*

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

-m [true | false]

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

-M *popup_msg*

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

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

0 Traces are disabled. This is the default value.

- 1 Standard tracing is enabled.
- 2 Verbose tracing is enabled.

-y *pathname*

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

-s [true | false]

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

-d *max_shutdowns*

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

-o [0 | 1 | 2]

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

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

-c [true | false]

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

-b *pathname*

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

-u *popup_title*

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

-v *popup_msg*

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

-w [true | false]

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

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

-z *shut_popup_msg*

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

-B *pathname*

Specifies the fully qualified path to the LCF_BINDIR.

-C *pathname*

Specifies the fully qualified path to the LCF_CACHEDIR.

-D *pathname*

Specifies the fully qualified path to the LCF_DATDIR.

-U *pathname*

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

-W *timeout*

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

-E *popup_title*

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

-F *popup_msg*

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

-G *timeout*

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

-T *logoff_str*

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

-H *logoff_and_shut*

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

-K *restart_str*

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

-J [1 | 2 | 3]

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

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

-P [true | false]

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

-Q *message*

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

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

0 Indicates that **wdepccm** completed successfully.

other than zero

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

Examples:

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

Using the concurrent login feature

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

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

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

- waccpst
- wcommtsp
- winstsp
- wspmldata
- wremovsp
- wundosp

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

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

-Y *max_login_allowed*

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

-W

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

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

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

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

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

Max Login Allowed

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

Disable Shutdown

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

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

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

Documentation notes

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

New information contained in this fix pack

The IBM Tivoli Configuration Manager, Version 4.2.2 library does not currently contain any new documentation information.

Documentation problems and corrections contained in this fix pack

The IBM Tivoli Configuration Manager, Version 4.2.2 library does not currently contain any documentation APARs.

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 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.

- **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*.

- **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.

- **Defect 51869**

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

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

- **APAR IY66515**

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

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

- **Feature 54613**

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

- waccpst
- wcommtsp
- winstsp
- wspmldata
- wremovsp
- wundosp

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

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

-Y *max_login_allowed*

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

-W Specifies that the user cannot perform a shutdown while a

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

- **APAR IY72490:**

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

wdlssp

wdlssp -B.

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

- b Creates a backup copy of the 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 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.

- **APAR IY71708**

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

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

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

User's Guide for 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.

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

Searching knowledge bases

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

Search the information center on your local system or network

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

Search the Internet

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

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

Obtaining fixes

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

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

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

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

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

Contacting IBM Software Support

IBM Software Support provides assistance with product defects.

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

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

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

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

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

Determine the business impact of your problem

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

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

Describe your problem and gather background information

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

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

Submit your problem to IBM Software Support

You can submit your problem in one of two ways:

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

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

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

Notices

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Trademarks

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

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

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

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



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

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

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

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



Program Number: 5724-C06

Printed in USA