IBM Tivoli Configuration Manager

IBM

Readme File for Fix Pack 1 - PTF U829862

Version 4.3.1

Contents

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IBM Tivoli Configuration Manager 4.3.1 ReadMe File for Fix Pack 4.3.1-TIV-TCM-FP0001 (PTF U829862)

This readme file provides important information about Fix Pack 1 (PTF U829862) for IBM® Tivoli® Configuration Manager Version 4.3.1. This readme file is the most current information for the fix pack and takes precedence over all other documentation for IBM Tivoli Configuration Manager, Version 4.3.1. This fix pack fixes a variety of defects of Tivoli Configuration Manager.

The Common Inventory Technology (CIT) level distributed in this fix pack is 2.6.0.1006.

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

About this release

This section includes the following topics:

CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.3.1 Fix Pack 1 includes *two* CD-ROMs as detailed in the following tables:

Table 1. IBM Tivoli Configuration Manager, Version 4.3.1 Fix Pack 1 CD 1

Directory or path	Contents
/xml	The XML file to be used by the ISMP installation program.
/cit_enabler	Enabler for Inventory scan on VMware environments.
/CIT_SPB	Software package block (SPB) files used to upgrade the CIT component to version 2.6.0.1006.
/images/INVENTORY	Images required for the Inventory fix pack.
/images/MCOLLECT	Images required for the Scalable Collection Services fix pack.
/images/SWD	Images required for Software Distribution, Activity Planner, Patch Management, CM Extension for Tivoli License Manager fix pack.
/rad	The RAD files required to install Tivoli Provisioning Manager for Operating System Deployment.

Table 2. IBM Tivoli Configuration Manager, Version 4.3.1 Fix Pack 1 CD 2

Directory or path	Contents
/tools/LoginControl	Software package block (SPB) and executable files used to implement the concurrent login feature. For more information about this feature, see "Enhancements" on page 3.
/tools/JarVersion	Scripts to retrieve and display the version of the .jar files currently installed.
/tools/apm_reporting	Files to implement the Activity plan group creation, submission, and tracking.
/package	Software package block (SPB) files used to patch GUI components and the XML descriptor file.
/spb_installer	SPB Patch Installer that installs SPB fix pack locally and the SPB Patch Installer Guide.
/tpm_install	Files to implement an improved installation for Automation Server. To use the improved installation, in the installation image that you copied from the Prerequisite Software Installer for Automation Server CD 2, replace the files in the */tpm_install* directory with these files. For more information, see *IBM Tivoli Configuration Manager: Patch Management Guide*.

Enhancements

This section contains a list of enhancements introduced in this fix pack.

New features in this fix pack

This fix pack contains the following enhancements:

Table 3. Customer enhancement request references

	Enhancement	Reference
Inventory	Inventory software scan returns access time information	MR0808085933
Inventory	Exclude history tables	235414
Patch Management	Windows Update Agent (WUA) 3.0 support	
DLA	Discovery Library Adapter (DLA) version 7.1.-TCMDLA-I	
New Endpoint support	Windows 7 support	
	SLES 11 support	
New platform support	Windows 2008 r2 support	

Inventory software scan returns access time information - **Feature MR0808085933**
> With this feature, if you perform an Inventory software scan, configured using the **Scan for installed products using signature matching** scan option, you retrieve new information named ACCESSED TIME, which shows the GMT time when the signature file was last accessed.

Exclude history tables - **Feature 235414**
> With this feature you can now exclude the history processing of some tables, to improve performance when loading the scan results into the database. All the Inventory tables that contain the COMPUTER_SYS_ID attribute have history data collected.
>
> If you have Inventory tables for which you do not need to keep the history tables, perform the following steps:
> 1. Create the EXCLUDED_H_TABLES table.
> 2. Insert the name of the table to be excluded in EXCLUDED_H_TABLES.
>
> You can find the SQL statements for performing these operations in the `h_inv_dbvendor_schema_431_FP01.sql` script file.

WUA 3.0 support
> With this feature the support has been extended to WUA version 3.0 for the Patch Management component.
>
> If you have installed WUA 3.0, perform the following steps before using the new WUA version:
> 1. Locate and open the `WUA.spd` file.
> 2. Replace, for example, all `WindowsUpdateAgent20-x86.exe` occurrences in the file with the following file name:
>   `WindowsUpdateAgent30-x86.exe`
>
> For more details about the WUA 3.0 support, see also the "Limitations" on page 4 section.

Discovery Library Adapter (DLA) version 7.1.-TCMDLA-I

The new version of the Discovery Library Adapter (DLA) for Tivoli Configuration Manager has been published on the OPAL Web site and replaces older versions.

This DLA provides resource instance and resource relationship instance information for the Tivoli Configuration Manager according to the IDML specification using a lightweight, easy-to-use solution based on IBM Tivoli Director Integrator.

Windows 7 and SLES 11 endpoint support

The endpoint support has now been extended to endpoints having the following operating systems installed:

- Windows 7
- SLES 11

Note: To enable WSUS 3.0 to manage Windows 7 endpoints for Patch Management operations, you must download the Windows Server Update Services 3.0 SP2 from the following Microsoft Web site:

http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=a206ae20-2695-436c-9578-3403a7d46e40

Windows 2008 r2 platform support

The support has now been extended to Tivoli servers and endpoints with the Windows 2008 r2 operating system installed.

Note: To enable WSUS 3.0 to manage Windows 2008 r2 endpoints for Patch Management operations, you must download the Windows Server Update Services 3.0 SP2 from the following Microsoft Web site:

http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=a206ae20-2695-436c-9578-3403a7d46e40

Product compatibility

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

IBM Tivoli Configuration Manager, Version 4.3.1 fix pack 4.3.1.-TIV-TCM-FP0001 was tested using:

- Tivoli Management Framework, Version 4.3.1.
- Tivoli Provisioning Manager for Software, version 5.1.1.

Limitations

Defect 66833: Emergency patches are not installable on Windows 7 endpoints.

Defect 59806: A patch installation might fail with exit code 1641. The workstation is automatically rebooted and the patch installation is completed when the workstation restarts. If the patch installation was performed using an activity plan, also the activity plan fails. Use the **wsecrprt** command to verify the patch installation.

Defect 59828: An activity plan for installing Microsoft service packs might fail. In the Software Distribution log file, one or more patches, contained in the service pack, fail with exit code 1642. This exit code does not mean that the service pack installation has failed, it means that the specific patch is not needed because the specific software module you are trying to upgrade is not present.

Defect 59811: The "2007 Microsoft Office Suite Service Pack 1" installation fails. If you perform a query in Patch Management using the **wsecrprt** command, the patch is missing. Despite this error, in most cases the patch has been installed correctly. Verify the patch installation from the **Add or Remove Programs** list of the Windows operating system. A ticket has been opened to Microsoft for this software limitation.

APAR IY88658: The SSL connection is not supported for the Enterprise Directory Query component.

Defect 58552: When running an activity plan to install a patch on a Windows 2000 Advanced Server, the patch installation might fail with exit code 1. The problem is generated by how parameters are parsed by the operating system.

As a workaround to successfully install the patch, you must modify the inhibit_parsing key. Inhibit parsing prevents the standard parsing of the values passed to the patch installation script. To modify the value of the inhibit_parsing key, perform the following steps:

1. In the Patch Management policy region, locate the patch that you are trying to install and unbuild it by converting the software package
2. Launch the Software Package Editor and edit the Execute Program object named $(temp_dir)\Hotfix\$(EXE)
3. Select **Advanced**
4. Clear the **Inhibit Parsing** check box
5. Save and close the modified software package
6. Rebuild the software package by converting it
7. Distribute the software package only to the endpoints on which the distribution failed previously.

Refer to the *IBM Tivoli Configuration Manager: Reference Manual for Software Distribution* and *IBM Tivoli Configuration Manager: User's Guide for Software Distribution* for more information about the inhibit parsing option.

Defect 201407: If the Common Inventory Technology (CIT) package is installed on the endpoint in transactional mode, and the following commit operation is not performed or fails, a subsequent transactional installation of the same package fails with RC=10.

To avoid this problem, before installing CIT, you must perform the commit operation or manually uninstall CIT. This problem often occurs when you install CIT by using an inventory scan.

Defect 181204: When you distribute a hardware scan profile to a Windows® 2003 with an AMD Opteron processor, the processor being detected is incorrect. It results in ″Pentium® M″ instead of ″AMD Opteron Family″ because of a Microsoft® problem.

Defect 58827: Messages sent to the Activity Plan Monitor and stored in the activity plan database are truncated if their length is greater than the length defined in the

schema. All the messages, except for Tivoli Provisioning Manager for Operating System Deployment messages, are truncated at the end. The Tivoli Provisioning Manager for Operating System Deployment messages are truncated at the beginning because they start with the copyright information, which is not useful for the error explanation.

Internationalization limitations

Defect 58877: Messages displayed in **Error Messages** when you monitor an IBM Tivoli Provisioning Manager for Operating System Deployment plan, by selecting a target and then **Show/Hide Details** from the pull-down menu of the Activity Plan Monitor GUI, are sometimes in English.

Defect 58757: The Tivoli Provisioning Manager for Operating System Deployment messages that are displayed in the Activity Plan Monitor after you submit a plan are garbled. **Workaround:** You can either change the language of Tivoli Provisioning Manager for Operating System Deployment to English or open the rbagent.log log and search for the corresponding error message.

Defect 58916: When a DB2 error occurs on Tivoli Provisioning Manager for Operating System Deployment in non-English environment, the DB2 error message shown in Activity Plan Monitor might be garbled. This is a known problem of IBM Tivoli Provisioning Manager for Operating System Deployment Fix Pack 1. To identify the error, look for the DB2 message ID and SQL code in the DB2 message reference.

Product fix history

The following section includes all the fixes included in this fix pack.

Fixes contained in this fix pack

Table 4 lists the fixes included in this fix pack:

Table 4. Fixes included in this fix pack

Fix pack	Component/Service
4.3.1-TIV-INV-FP0001	Inventory, Version 4.3.1
4.3.1-TIV-INVGW-FP0001	Inventory Gateway, Version 4.3.1
4.3.1-TIV-CLL-FP0001	Scalable Collection Service, Version 4.3.1
4.3.1-TIV-SWDSRV-FP0001	Software Distribution, Version 4.3.1
4.3.1-TIV-SWDGW-FP0001	Software Distribution Gateway, Version 4.3.1
4.3.1-TIV-SWDJPS-FP0001	Software Distribution Software Package Editor, Version 4.3.1
4.3.1-TIV-APM-FP0001	Activity Planner, Version 4.3.1
4.3.1-TIV-PMG-FP0001	Patch Management, Version 4.3.1
4.3.1-TIV-TLMEXT-FP0001	CM Extension for Tivoli License Manager, Version 4.3.1

APARs fixed for Inventory: Table 5 lists the APARs that were fixed for Inventory:

Table 5. APARs for Inventory

Inventory, Version 4.3.1, 4.3.1–TIV-INV-FP0001 and 4.3.1–TIV-INVGW-FP0001				
IZ36578	IZ37067	IZ37463	IZ40935	IZ41054
IZ42275	IZ42283	IZ42943	IZ44261	IZ44909

Table 5. APARs for Inventory (continued)

Inventory, Version 4.3.1, 4.3.1–TIV-INV-FP0001 and 4.3.1–TIV-INVGW-FP0001				
IZ46768	IZ47661	IZ49535	IZ49791	IZ49856
IZ50748	IZ51170	IZ51313	IZ52869	IZ53428
IZ55281	IZ63870	IZ64673		

APAR IZ36578

Abstract:
> LPAR property/group not added to the hardware Windows configuration of existing profiles

Error Description:
> The LPAR property/group is not added to the hardware Windows configuration of an existing profile, if one of the following fix packs has already been applied:
> - Configuration Manager 4.2.3 Fix Pack 2
> - Configuration Manager 4.2.3 Fix Pack 3
> - Configuration Manager 4.2.3 Fix Pack 4

APAR IZ37067

Abstract:
> Inventory log file is written as nobody:nobody

Error Description:
> Inventory log file is created as nobody:nobody 666. 666 is a too high permission that is not compliant with the security rules. Set it to 644.

APAR IZ37463

Abstract:
> Signature files have size 0

Error Description:
> A signature software scan can find files having a zero (0) file size. However, the **MATCH_SWARE_VIEW** that joins the **SIGNATURE** table with **UNMATCHED_FILES**, which represents the results of the file system scan named "Scan for Basic Information", does not display any match for signature files having size 0, even if the file system scan can detect these files.

APAR IZ40935

Abstract:
> Data is truncated because the field for the **OS_SUB_VERS** data only allows 32 characters

Error Description:
> The value for the Inventory hardware scan data **OS_SUB_VERS**, named ″Sub Version″ in the MIF file, is limited to 32 characters, but, for example, the result data for the polish Microsoft Windows XP Professional service pack 1 is 35 characters long. The following is a sample *tivhscan.mif* file:

```
                      Start Attribute
                      Name = "Sub Version"
                      ID = 5
                      Type = String(32)
                      Value = "Build 2600: Dodatek Service Pack. 1"
                      End Attribute
```

APAR IZ41054

Abstract:
> The 20081130 catalog file causes an Inventory scan failure

Error Description:
> If you have downloaded the catalog named
>
> `itlcm22-allProducts-fullSwCat-20081130.xml`
>
> and you have run one of these commands:
> - **winvmigrate -c itlcm22-allProducts-fullSwCat-20081130.xml**
> - **winvsig -a -f itlcm22-allProducts-fullSwCat-20081130.xml**
>
> when you perform an Inventory scan against a Windows endpoint the scan
> fails.

Additional information:
> The scan failure is caused by an incorrect signature in the
> *catalogWindows.txt* file, which is downloaded on the endpoint. The reason is
> that the Configuration Manager scanner does not accept an extended
> signature that is split into multiple rows:
>
> `42987]57b056a4abfe46c0b480d883136ada59]0]400]1]&nil;]`
> `<Signaturename="Oracle 11g"`
> `guid="57b056a4abfe46c0b480d883136ada59"><Variable`
>
> The signature must be all in one single row.

APAR IZ42275

Abstract:
> Tivoli Desktop 4.3.1 if installed into a non-default path causes an Inventory
> GUI launch problem

Error Description:
> If you install the Tivoli desktop from Configuration Manager 4.3.1 CD 3
> and specify a non-default installation path such as *c:\tivoli\desktop*, when
> you try to launch the inventory editor GUI it does not launch. A
> hard-coded issue is present in the file *c:\Tivoli\Desktop\Console\InvGUI.bat*.
> The suggested workaround for this issue is to change the path to match
> your non-default installation path.

APAR IZ42283

Abstract:
> Inventory profile creation using the Tivoli desktop does not work on
> Windows platforms

Error Description:
> When you try to create an inventory profile using the Tivoli desktop, the
> profile might not be created and an oserv failure popup panel might be
> displayed. The problem does not necessarily occur during the first attempt
> to create the profile.

APAR IZ42943

Abstract:

Software signature scan fails

Error Description:

After loading the file named `inventory-allProducts-fullSwCat-20080831.xml` and performing a signature scan, the software signature scan fails. This issue is caused by the extended signature being split into multiple rows.

APAR IZ44261

Abstract:

MIF parse error in `tivrscan.mif` on AS/400 endpoints

Error Description:

When performing a scan on an AS/400 endpoint for ″scan registry for product information″, the following error occurs:

```
Dec 01 13:35:30 Q MethInit ** Exception caught in run_impl: MIF
parse
error: tivrscan.mif: line 780: syntax error
Context: "5"
```

APAR IZ44909

Abstract:

wscanfs -**reset** failure due to LIBPATH setting

Error Description:

Because of the LIBPATH setting used by Configuration Manager, an Inventory scan performed on AIX platforms might fail and display the following error message:

```
INFO: Command to run: /opt/tivoli/cit/bin/wscanfs -reset
INFO: Dumping CLI invocation parameters:
/opt/tivoli/cit/bin/wscanfs
-reset
INFO: after tiv_spawn() pid=28246
INFO: Timeout=-1
INFO: before calling unix_wait()  pid=28246
INFO: inside unix_wait()
INFO: inside unix_wait() timeout=-1
INFO: cli invocation status=8
ERROR: sa_discover threw an exception
INFO: Releasing the lock...
```

APAR IZ46768

Abstract:

Deadlocks when writing to the **PRINTER** table

Error Description:

When running big Inventory scans, deadlocks can be found in the RIM log for the **PRINTER** and **MOUSE** tables.

Additional Information:

The **PRINTER** and **MOUSE** tables are leaf tables (no computer_sys_id) so they can be concurrently accessed by different output threads.

APAR IZ47661

Abstract:

Inventory 431 malloc occurs

Error Description:
> Inventory 431 malloc occurs when performing a compression of MIF files on the endpoint.

APAR IZ49535

Abstract:
> Inventory scan on AIX platforms might cause malloc

Error Description:
> Tivoli Configuration Manager 431 Inventory scan on AIX platforms might cause malloc when scanning large file systems.

APAR IZ49791

Abstract:
> `INV_CONFIG_EP_METHS` process might hang

Error Description:
> The Common Inventory Technology scanner `wscansw` might create a malformed or truncated output file named `inv/SCAN/swscan.xml` especially if the `wscansw` command cores.

APAR IZ49856

Abstract:
> Log message contains misleading information when the signature catalog is not found

Error Description:
> When the catalog of the signatures is not downloaded, the log file shows that `wscanner` tried to run but does not specify that the problem is caused by a missing catalog. A more specific log file would be useful.

APAR IZ50748

Abstract:
> Directory exclusion in Inventory profile does not work with CIT 2.6

Error Description:
> With the Common Inventory Technology (CIT) version 2.6 provided by Tivoli Configuration Manager, the directory exclusion does not work correctly.

APAR IZ51170

Abstract:
> Incorrect number of lines after running **wqueryinv** command

Error Description:
> Even if the **PHYSICAL PROCESSOR** table contains the correct number of entries, when performing **wqueryinv**, more entries are added.

APAR IZ51313

Abstract:
> Signature catalog should not be sent if the signature scan is not required

Error Description:
> A signature catalog for Windows is sent to a Windows endpoint even if the Inventory profile is not configured to scan for signatures. The same issue occurs on UNIX platforms.

APAR IZ52869

Abstract:
Log file specified with **wsetinvglobal** must allow you to specify the permissions

Error Description:
You must be able to specify what the permissions are in the log file specified when running the **wsetinvglobal** command. These permissions were modified into `666 nobody:esms` with APAR IZ37067 and they are now `644` again.

Additional Information:
To enable the fix provided, you must enable the `GA_INV_LOG_FILE_CHMOD` environment variable as follows:

```
run
odadmin environ get >e
edit e
and add at the bottom of the file e
GA_INV_LOG_FILE_CHMOD=TRUE

odadmin environ set <e
odadmin reexec all
```

APAR IZ53428

Abstract:
$remote keyword not working if preceeded by ″/″

Error Description:
Common Inventory Technology (CIT) provides the capability to scan a remote drive if it is preceded by the `$REMOTE::` key. The Inventory server and the **wsetinvpcfiles** ∕ **wsetinvunixfiles** commands add a / prefix to all the directory names specified in the Include Directory section. CIT cannot read this key.

The following fix applies to UNIX endpoints only:

The Tivoli Configuration Manager code has been modified, so that the ″/″ prefix is not added, if the ″$REMOTE″ string is located at the beginning of the directory name.

Additional Information:
Even if the $REMOTE prefix is correctly set, the scan against a remote drive might not work, in particular on Windows platforms, because the remote drive might not be visible to the TRAA (wlcftap) TMF user, when it invokes any command. For example, when running a simple TMF task such as:

```
ls -la N:/
```

where N:∕ is a remote resource, the scan might not work.

APAR IZ55281

Abstract:
ACCESSED TIME information is now provided by the `tivsscan.mif` file

Error Description:
If you perform an Inventory software scan, configured using the **Scan for installed products using signature matching** scan option, you retrieve new information named **ACCESSED TIME**, which shows the GMT time when the signature file was last accessed.

Additional Information:
> The software signature scan on the endpoint now discovers the **ACCESSED TIME** information for each matched signature. On the endpoint, the `inv/SCAN/tivsscan.mif` file now shows this information. The INVENTORY_SWARE and H_INVENTORY_SWARE queries have been updated to display the new column. Also the INST_SWARE_VIEW and H_INST_SWARE_VIEW have been modified.

APAR IZ63870

Abstract:
> **wscanvpd** might fail with return code 52

Error Description:
> The **wscanvpd** command uses a Windows API to collect the product information, and if this API fails, then **wscanvpd** also fails on some endpoints and displays a return code of 52.

APAR IZ64673

Abstract:
> `SQL0180N` inserting the **ACCESSED_TIME** column into the database

Error Description:
> When inserting the **ACCESSED_TIME** column into the **MSWARE_DESC** table, a `SQL0180N` error occurs, during the UPDATE with difference scan. When performing REPLACE with current results, no error is generated.

APARs fixed for Scalable Collection Service: Table 6 lists the APAR that was fixed for Scalable Collection Service:

Table 6. APARs for Scalable Collection Service

Scalable Collection Service, Version 4.3.1, 4.3.1–TIV-CLL-FP0001				
IZ60279				

APAR IZ60279

Abstract:
> `inv_rcv_meths.exe` failure

Error Description:
> The `inv_rcv_meths.exe` fails and ends in an unexpected way, tracking the error in `oservlog`, and preventing the Inventory database from being updated.

APARs fixed for Software Distribution: Table 7 lists the APARs that were fixed for Software Distribution:

Table 7. APARs for Software Distribution

Software Distribution, Version 4.3.1, 4.3.1-TIV-SWDSRV-FP0001				
IZ35031	IZ37181	IZ37727	IZ39094	IZ43906
IZ44090	IZ46760	IZ46966	IZ47592	IZ50171
IZ50436	IZ55429	IZ55739	IZ56029	IZ57803
IZ59322	IZ59502	IZ59604	IZ59646	IZ60188
IZ60341	IZ60609	IZ61292	IZ62258	IZ62947
Software Distribution Gateway, Version 4.3.1, 4.3.1-TIV-SWDGW-FP0001				

Table 7. APARs for Software Distribution (continued)

Software Distribution, Version 4.3.1, 4.3.1-TIV-SWDSRV-FP0001				
None				
Software Package Editor, Version 4.3.1, 4.3.1-TIV-SWDJPS-FP0001				
None				
Software Package Editor for Endpoints, Version 4.3.1, 4.3.1-TIV-SWDEP-FP0001				
None				

APAR IZ35031

Abstract:
> Performance issue with Software Package Editor

Error Description:
> Saving a software package definition (SPD) file to the repository using the Software Package Editor, reorganizes the files. For software packages containing thousands of files, there is a performance problem.

APAR IZ37181

Abstract:
> **wldsp** command issued to 1850 target managed nodes has a `mdist2_result` methods problem

Error Description:
> When issuing the **wldsp** command to a target list of 1850 managed nodes, the `mdist2_result` methods that are returned by this command generate several `object_get_alls`, which cause a performance problem.

Additional information:
> This APAR enhances the fix done for APAR IZ31961.

APAR IZ37727

Abstract:
> Nested package logging is incorrect

Error Description:
> When a parent package has nested packages, the log reporting is incorrect.

APAR IZ39094

Abstract:
> SPB **wimpspo** command hangs on Linux-ix86 platforms

Error Description:
> On Linux-ix86 platforms, when issuing the **wimpspo** command on a software package block, the command fails because it hangs.

APAR IZ43906

Abstract:
> Reports occasionally lost by report manager

Error Description:
> The Report Manager component occasionally loses some reports. For this reason, the data replication to the Tivoli Provisioning Manager for Software environment cannot be completely accurate.

APAR IZ44090

Abstract:
> `spd_eng` crashes when negative value is returned by file last_modified

Error Description:
> The installation of a software package performed using the **wdinstsp** command ends with an error. The negative value returned from **file::last_modified** return data is not considered as a valid value and generates the abend.

APAR IZ46760

Abstract:
> Replace wrong`Tivoli_MD2GUI.spb` in Configuration Manager 4.3.1 GA (APAR IZ40953)

Error Description:
> The workaround for APAR IZ40953 causes the following problem: the Software Distribution Console does not open in Configuration Manager 4.3.1 GA code. Before installing Configuration Manager 4.3.1, you must replace the `Tivoli_MD2GUI.spb` in the Configuration Manager images with the one provided in the Tivoli Management Framework 4.3.1 images.

APAR IZ46966

Abstract:
> **wspmvdata** command causes `spd_eng` to crash when retrieving a file

Error Description:
> When retrieving a file from an endpoint to the HUB in your environment using the **wspmvdata** command, you receive a TRAP error.

APAR IZ47592

Abstract:
> `spd_eng` abends when accessing corrupted key in the registry

Error Description:
> The `spd_eng` process abends when accessing a corrupted key (HKEY_LOCAL_MACHINE) in the registry of a Microsoft Windows workstation.

APAR IZ50171

Abstract:
> `continue_on_invalid_targets` setting is not working on target lists

Error Description:
> If you set the `continue_on_invalid_targets` option to `yes`, the option does not seem to work when an endpoint is not subscribed to the profile manager where the software package is defined.

APAR IZ50436

Abstract:
> The `allow_defer` option allows you to postpone the operation until after its deadline

Error Description:
> When using the `allow_defer` option, you can postpone a Software Distribution operation after its planned deadline.

APAR IZ55429

Abstract:

The lcf_before script needs a new argument: the software package

Error Description:

The lcf_before script now has in its parameter list also the software package name.

APAR IZ55739

Abstract:

Unable to insert multiple files and directories using the Software Package Editor

Error Description:

When using the Software Package Editor on Windows platforms, you can select an option to insert multiple files or directories. The following problem occurs: after highlighting the files or the directories, and clicking **Add**, nothing happens. Files or directories are not displayed in the lower section of the dialog and do not allow you to confirm your insertion.

APAR IZ56029

Abstract:

wdusrprf command must handle better the missing dll libraries to avoid pop-up errors

Error Description:

When dll libraries are missing, the **wdusrprf** command is run on each new login and pop-up errors are displayed.

APAR IZ57803

Abstract:

wspmvdata command - `spd_eng` hangs on missing file on SCO-UNIX endpoint

Error Description:

When running the **wspmvdata** command against SCO-UNIX endpoints, the retrieval of a non-existant file causes the `spd_eng` process to hang, and the failing results are not sent back to the gateway.

APAR IZ59322

Abstract:

Repair function is not working

Error Description:

The installation of a software package using the repair function does not work and ends with the following error:

```
DISSE0459E A failure occurred when the server tried to contact
the endpoint. The endpoint might be down.
```

APAR IZ59502

Abstract:

`REMOVE_WIN_REGISTRY_KEY` must display an error when the key cannot be deleted

Error Description:

When trying to delete an entry in the registry using the

`REMOVE_WIN_REGISTRY_KEY` option, the entry is not removed if it contains a value, but no error message is displayed.

APAR IZ59604

Abstract:
Improvement needed for APAR IZ50436: The `allow_defer` option can now postpone software distribution operations until after the deadline

Error Description:
When using the options -**l** deadline=*deadline* and -**l** enable_notification=y, the software distribution becomes mandatory. Also using -**l** allow_defer=y and -**l** allow_reject=y is no longer possible.

APAR IZ59646

Abstract:
`SIG 11 in FILE_SYSTEM_OBJECT::EQUAL_ATTRIBUTES`

Error Description:
The AIX function **getpwnan** might abend. It is not called if the user owner of the file is ROOT. The problem occurs only in AIX environments with massive data move operations.

APAR IZ60188

Abstract:
MDIST2 console does not pop up if started from APM

Error Description:
The MDIST2 console does not pop up, and remains at 85 %, if started within the Activity Planner Monitor. As soon as you close the Activity Planner Monitor, the MDIST2 console pops up correctly.

APAR IZ60341

Abstract:
S=11 error when loading a software package using the advanced options

Error Description:
From the Tivoli desktop if you right-click a software package, and select Load –> Advanced options-> Distribution settings, odstat displays the following error:

```
*13813 O+hdq1-13542  done  0   0 08:55:20  S=11
1197978402.1.865#SoftwarePackage::Spo# dialog_icon
```

APAR IZ60609

Abstract:
Exceptions of **wspmvdata** command are wrongly logged in the default log file `DataMovingRequest.1.log`

Error Description:
When performing a retrieve operation from an unavailable endpoint using the **wspmvdata** command at distribution expiration time, the gateway logs the exception in the default log file, even if the **wswdcfg** split_dm_logkeyword option is set to yes. After the fix, the exception is correctly logged into `DataMovingRequests.`*`DistID`*`.log`.

APAR IZ61292

Abstract:
> $(user_profile_dir) not honored

Error Description:
> The $(user_profile_dir) variable is not honored when installing a
> software package using this variable, for example, if you specify it as target
> directory. The **All Users** folder is used instead.

APAR IZ62258

Abstract:
> Remove failure when files have versions

Error Description:
> The remove operation of a SPB file fails when files have different versions.

APAR IZ62947

Abstract:
> Activity plan remains started if Inventory activity fails

Error Description:
> If you submit an activity plan with a single Inventory activity, and the
> Inventory activity fails on one of the targets involved, an error message is
> correctly returned to the Activity Plan Monitor, but the APM Handler does
> not process it. The following exception is thrown in the APM Handler
> traces:
>
> ```
> 09/08/31 10:55:49.652 CEST:  APMHandler   F  :
> com.tivoli.apm.core.APMHandler:
> ExRIMError Exception updating database. The report will be reprocessed:
> com.tivoli.framework.RIM.ExRIMSQLParseFailed
> com.tivoli.framework.RIM.ExRIMSQLParseFailed
> at
> com.tivoli.framework.RIM.ExRIMSQLParseFailedHelper.read(ExRIMSQL
> ParseFailedHelper.java(Inlined Compiled Code))
> ```

APARs fixed for Activity Planner: Table 8 lists the APARs that were fixed for
Activity Planner:

Table 8. APARs for Activity Planner

Activity Planner, Version 4.3.1, 4.3.1-TIV-APM-FP0001				
IZ36265	IZ40600	IZ43804	IZ49769	IZ55464

APAR IZ36265

Abstract:
> Recursion start time calculations cause poor performance in Activity
> Planner

Error Description:
> When submitting a recursive activity plan with time interval as frequency
> type, in the Activity Planner Handler traces you can see that the new
> recursion date is calculated started from the submission time, displaying
> several messages such as the following:
>
> ```
> recursion ... skipped: Recursion date performed is less than actual date.
> ```

APAR IZ40600

Abstract:
> Activity plan MAIL_ID tag is not exported

Error Description:
When exporting an activity plan using the command line or the Activity Plan Editor, the **mail_id** tag is not exported to the output XML file.

APAR IZ43804

Abstract:
APM traces are needed when specifying targets from a file

Error Description:
Using the Activity Planner you can specify the targets from a file, and you specify the managed node and the path to that target file. When attempting to select a text file with populated endpoints to be used as targets from either the plan or activity level, you receive the following error message:

```
AMN4025E An incorrect value was specified for either
the Managed Node or the Path to file parameter. Check whether the
managed node and file name exist and have been entered correctly.
```

The problem is that the file exists, it is valid, and it has the correct permissions. Therefore, traces are needed to understand what the problem is.

APAR IZ49769

Abstract:
Issue with **wstopapm** -**f** command

Error Description:
The **wstopapm** with the -**f** option does not work when you switch users from non-root to root. Using the force option, the user is checked against the idmap of $root_user.

APAR IZ55464

Abstract:
wsetapmpw on Solaris only works with 8 characters

Error Description:
The **wsetapmpw** command performed on Solaris platforms only works with 8 characters. The problem is due to a limitation of the Solaris getapss API. With this APAR, the **wsetapmpw** command has been enabled to use more than 8 characters.

APARs fixed for Patch Management: Table 9 lists the APARs that were fixed for Patch Management:

Table 9. APARs for Patch Management

Patch Management, Version 4.3.1, 4.3.1-TIV-PMG-FP0001				
IZ39651	IZ40784			

APAR IZ39651

Abstract:
Errors in the `REMOVE_CTRL_M.SH` script

Error Description:
The `tpm_install/Remove_ctrl_M.sh` script contains the following incorrect statement:

```
sed -e 's/
$//' "$line" >"$home_dir"/tmpa
```

but it should contain:

```
sed -e 's/$//' "$line" >"$home_dir"/tmpa
```

APAR IZ40784

Abstract:
Parser failure because of carriage return in `ApprovedChanges.txt` file

Error Description:
Depending on the Cygwin version, the `ApprovedChanges.txt` file might contain extra carriage return characters, which cause a parser failure, for example, when running WSUS 3.0. With WSUS version 2.x the parser problem does not occur.

APARs fixed for CM Extension for Tivoli License Manager: The CM Extension for Tivoli License Manager component does not currently contain any fixed APARs.

Installation

This section describes how to install Fix Pack 1 to upgrade the various components of IBM Tivoli Configuration Manager, Version 4.3.1. The method of installation depends on the component that you are upgrading. When 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.

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.

Upgrading large environments

To upgrade large environments, start installing the fix pack on the Tivoli gateways. If you cannot install the fix pack on the Tivoli server and all the gateways at the same time, to ensure that all gateways keep working, perform the following steps:
1. Install the fix pack on the Tivoli gateways.
2. Install the fix pack on the Inventory server.
3. Upgrade the Inventory database on the RDBMS server.

   Note: Until you perform step 2 and 3 of the procedure, you can only run Inventory scans on endpoints attached to the gateways, on which you have not yet installed Fix Pack 1.

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 components for the entire Tivoli management region (Tivoli region).

- "Installing fix packs using the Tivoli desktop" on page 21

  A graphical user interface that you use to select the fix pack components to install and the target workstations on which to install them.

- "Installing fix packs using the CLI" on page 21

  Tivoli Management Framework command that you use to specify the fix pack components to install and the target workstations on which to install them from the command line interface.

- "Installing fix packs using SIS" on page 22

  The SIS console or SIS commands you use to specify the fix pack components 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®. It cannot be used to install the License Management Extension or the Active Directory feature.

Note: Before starting the upgrade process, back up the object database on the Tivoli server.

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

To upgrade your IBM Tivoli Configuration Manager environment with the 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 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` fix pack directory. Click **Next**.

4. The actions necessary to upgrade your environment are being generated. When the process completes, a panel displays the fix pack components to 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 that you want to run. Change the status of steps that 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 4.3.1 Fix Pack 1 CD 1. 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:

   Upgrading an existing component
   Install -> **Install Patch**

2. Select the media and component to be upgraded or added.

3. Select the workstations where the component is to be upgraded or added.

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

Use the **wpatch** command to install updates to existing components.

wpatch command: When upgrading existing components using the **wpatch** command, specify the name of the index file using the file shown in Table 10 on page 22. 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 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 4.3.1 Fix Pack 1 CD 1.

-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 for existing components included in this fix pack.

Table 10. IND files included in this fix pack

IND file	Component name	Tag
INVFP1.IND	Inventory, Version 4.3.1	4.3.1-TIV-INV-FP0001
LCFFP1.IND	Inventory Gateway, Version 4.3.1	4.3.1-TIV-INVGW-FP0001
CLLFP1.IND	Scalable Collection Service, Version 4.3.1	4.3.1-TIV-CLL-FP0001
APMFP1.IND	Activity Planner, Version 4.3.1	4.3.1-TIV-APM-FP0001
PMGFP1.IND	Patch Management, Version 4.3.1	4.3.1-TIV-PMG-FP0001
SDGWFP1.IND	Software Distribution Gateway, Version 4.3.1	4.3.1-TIV-SWDGW-FP0001
SWDFP1.IND	Software Distribution, Version 4.3.1	4.3.1-TIV-SWDSRV-FP0001
SWDISJPS.IND	Software Distribution Software Package Editor, Version 4.3.1	4.3.1-TIV-SWDJPS-FP0001
TLMXTFP1.IND	CM Extension for Tivoli License Manager, Version 4.3.1	4.3.1-TIV-TLMEXT-FP0001

Installing fix packs using SIS

When installing fix packs using Tivoli Software Installation Service, select the fix pack component to be installed using the component name shown in Table 10.

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 25
- "Software Distribution server command" on page 26
- "Software Distribution disconnected command" on page 26

IBM Tivoli Configuration Manager, Version 4.3.1 GA package is a prerequisite of the SPB fix packs.

To successfully install fix packs using any of these installation methods, you must ensure that the values of the default variables specified in the software package block correspond to the existing installation on the workstation to be upgraded. If they do not correspond, ensure that 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 11.

Table 11. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_INV_GUI_Fix.v4.3.1.FP01		
Version	4.3.1	The version of Inventory to which the SPB applies
DSWIN_DIR	$(program_files)\Tivoli\ Desktop	The directory where the Tivoli Desktop is installed.
Tivoli_APM_GUI_Fix.v4.3.1.FP01		
DSWIN_DIR	$(program_files)\Tivoli\ Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	$(program_files)\Tivoli\ JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_SWDEP_AIX_Fix.v4.3.1.FP01		
target_dir	$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.

Table 11. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
Tivoli_SWDEP_HP_Fix.v4.3.1.FP01		
target_dir	$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_SWDEP_LINUX_IX86_Fix.v4.3.1.FP01		
target_dir	$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_SWDEP_LINUX_S390_Fix.v4.3.1.FP01		
target_dir	$(product_dir)/speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_LINUXPPC_Fix.v4.3.1.FP01		
target_dir	$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_SWDEP_NT_Fix.v4.3.1.FP01		
target_dir	$(product_dir)\speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	$(program_files)\Tivoli\ JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_SWDEP_NTAS400_Fix.v4.3.1.FP01		
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 JRE 1.4.0 is installed.
Tivoli_SWDEP_SOLARIS_Fix.v4.3.1.FP01		
target_dir	$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_JRE_SOLARIS_IX86_Fix.v4.3.1.FP01		
Tivoli_JRE_140_version	1.4.0	The version of the JRE
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_SWDEP_SOLARIS_IX86_Fix.v4.3.1.FP01		
target_dir	$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_JRE_AIX_Fix		

Table 11. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_JRE_140_version	1.4.0	The version of the JRE
Tivoli_JRE_HP_Fix		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_JRE_140_version	1.4.0	The version of the JRE
Tivoli_JRE_LINUX_IX86_Fix		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_JRE_140_version	1.4.0	The version of the JRE
Tivoli_JRE_LINUX_PPC_Fix		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_JRE_140_version	1.4.0	The version of the JRE
Tivoli_JRE_LINUX_S390_Fix		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_JRE_140_version	1.4.0	The version of the JRE
Tivoli_JRE_NT_Fix		
TME_JAVATOOLS	$(program_files)\Tivoli\JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_JRE_140_version	1.4.0	The version of the JRE
Tivoli_JRE_SOLARIS_Fix		
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where JRE 1.4.0 is installed.
Tivoli_JRE_140_version	1.4.0	The version of the JRE

Note: When you install the fix pack, if you are using the APM or CCM GUI components, install also 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 4.3.1 GUI components. The SPB Patch Installer is supported on Microsoft Windows, IBM AIX®, Solaris Operating Environment, Linux for Intel®, and HP-UX.

The following is a summary of the upgrade process using the SPB Patch Installer. Refer to the *SPB Patch Installer Guide* located in the spb_installer directory on the IBM Tivoli Configuration Manager, Version 4.3.1 Fix Pack 1 CD 2 for complete instructions about 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 4.3.1 Fix Pack 1 CD 2.

2. Locate and run the setup program located in the spb_installer directory.
   - On Windows, run the setup.exe file.
   - On all other platforms, run the setup_$(interp).bin.
3. Read the Welcome panel and click **Next**.
4. Specify the CM431_SPB_FP01.xml file for the fix pack located in the /package subdirectory on the IBM Tivoli Configuration Manager, Version 4.3.1 Fix Pack 1 CD 2. Click **Next**.
5. Select **Apply** and click **Next**.
6. Specify the components that 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**. 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 at least one 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 12.
2. Import the SPB file provided in 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 12 contains the names of the Fix Pack 1 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 4.3.1 GA SPBs are a prerequisite of the fix pack SPBs.

Table 12. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_INV_GUI_Fix.v4.3.1.FP01.spb	Tivoli_INV_GUI_Fix.v4.3.1.FP01
Tivoli_APM_GUI_Fix.v4.3.1.FP01.spb	Tivoli_APM_GUI_Fix.v4.3.1.FP01
Tivoli_SWDEP_AIX_Fix.v4.3.1.FP01.spb	Tivoli_SWDEP_AIX_Fix.v4.3.1.FP01
Tivoli_SWDEP_HP_Fix.v4.3.1.FP01.spb	Tivoli_SWDEP_HP_Fix.v4.3.1.FP01
Tivoli_SWDEP_LINUXPPC_Fix.v4.3.1.FP01.spb	Tivoli_SWDEP_LINUXPPC_Fix.v4.3.1.FP01
Tivoli_SWDEP_LINUX_IX86_Fix.v4.3.1.FP01.spb	Tivoli_SWDEP_LINUX_IX86_Fix.v4.3.1.FP01

Table 12. Names of SPB files and software profiles (continued)

SPB Files	Package name with Version
Tivoli_SWDEP_LINUX_S390_Fix.v4.3.1.FP01.spb	Tivoli_SWDEP_LINUX_S390_Fix.v4.3.1.FP01
Tivoli_SWDEP_NTAS400_Fix.v4.3.1.FP01.spb	Tivoli_SWDEP_NTAS400_Fix.v4.3.1.FP01
Tivoli_SWDEP_NT_Fix.v4.3.1.FP01.spb	Tivoli_SWDEP_NT_Fix.v4.3.1.FP01
Tivoli_SWDEP_SOLARIS_Fix.v4.3.1.FP01.spb	Tivoli_SWDEP_SOLARIS_Fix.v4.3.1.FP01
Tivoli_SWDEP_SOLARIS_IX86_Fix.v4.3.1.FP01.spb ([1])	Tivoli_SWDEP_SOLARIS_IX86_Fix_v4.3.1.FP01
Tivoli_SWDEP_SOLARIS_IX86.spb	Tivoli_SWDEP_SOLARIS_IX86
Tivoli_JRE_AIX_Fix.spb ([2])	Tivoli_JRE_AIX
Tivoli_JRE_HP_Fix.spb ([2])	Tivoli_JRE_HP
Tivoli_JRE_LINUX_IX86_Fix.spb ([2])	Tivoli_JRE_LINUX_IX86
Tivoli_JRE_LINUX_PPC_Fix.spb ([2])	Tivoli_JRE_LINUX_PPC
Tivoli_JRE_LINUX_S390_Fix.spb ([2])	Tivoli_JRE_LINUX_S390
Tivoli_JRE_NT_Fix.spb ([2])	Tivoli_JRE_NT
Tivoli_JRE_SOLARIS_Fix.spb ([2])	Tivoli_JRE_SOLARIS
Tivoli_JRE_SOLARIS_IX86_Fix.spb	Tivoli_JRE_SOLARIS_IX86

Notes:

1. ([1]) If you are installing the Software Package Editor component for Solaris on x86, using the Software Distribution command line, you must install the following prerequisite packages first:

   a. Tivoli_JRE_SOLARIS_IX86.spb. This package is a prerequisite for installing the Software Package Editor GUI on Solaris 8 and Solaris 9.

   b. Tivoli_SWDEP_SOLARIS_IX86.spb. This is an empty package used to update the local catalog in accordance with the adopted SPB naming convention on Solaris 8, 9, and 10.

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

2. ([2]) Install these software package blocks that you find under the /package path to enable the Daylight Saving Time (DST) feature. It is not mandatory to perform this installation. If you do not install these software package blocks, the time stamp of log and trace files is not at Daylight Saving Time used by the following countries:

   - United States
   - Canada
   - Brazil
   - Bermuda
   - Western Australia

Updating the inventory schema

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

A fix pack does not necessarily contain fixes on SQL scripts and, if present, these fixes do not necessarily apply to all database vendors.

Table 13 lists the SQL scripts to run for updating the **Inventory schema**:

Table 13. SQL scripts for updating the **Inventory schema**

	Oracle	DB2	MSSQL	Sybase	Informix	DB2 MVS	DB2 MVS custom
inv_*db*_431_FP01.sql	X	X	X	X	X	X	X

Table 14 lists the SQL scripts to run for updating the **Historical Inventory schema**:

Table 14. SQL scripts for updating the **Historical Inventory schema**

	Oracle	DB2	MSSQL	Sybase	Informix	DB2 MVS	DB2 MVS custom
h_inv_*db*_431_FP01.sql	X	X	X	X	X	X	X

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 SQL connectivity, to run the schema scripts.

Notes:

1. Error or information messages might be displayed when running the database scripts. Each database has unique behavior, so some messages can be expected.
2. The inv_db2_mvs_custom_*.sql script might contain some customizable variables such as:
   - XX_OWNER
   - XX_STOGRP
   - XX_DBNAME

   Descriptions for these variables can be found inside the inv_db2_mvs_admin.sql script.

For example, if you use DB2 and install this fix pack to update the Inventory schema, refer to the **DB2** column of Table 13 and run the scripts identified in the table rows by **X** in the order specified:

1. inv_db2_431_FP01.sql
2. h_inv_db2_431_FP01.sql

Note: SQL scripts delivered with fix packs might alter the existing tables or columns, if you created materialized queries or views. Depending on the tables modified by the fix pack SQL scripts, the following error might occur for DB2 (and a similar error for other RDBMS vendors):

```
SQL0270N  Function not supported (Reason code = "21").  SQLSTATE=42997
The error indicates dependency on MQT as explained below:
21 A column cannot be dropped or have its length, data type, or
 nullability altered on a table which is a base table for a
 materialized query table.
```

To fix this problem, perform the following actions:

1. Drop the dependent materialized query table or tables.
2. Drop the column of the base table, or alter the length, data type, or nullability of this column.
3. Recreate the materialized query table or tables.

Updating the inventory queries

This fix pack installation provides scripts to update inventory queries with the new database information introduced by the fix pack. The scripts inventory_query.sh and h_inventory_query.sh are located on the managed nodes where the patch is installed, in the following directory:

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

Updating the Inventory signatures and packages

If you have not already run the command winvmigrate to migrate Configuration Manager signatures from the old SWSIGS.INI format to the new IBM software catalog format, or if you imported the IBM software catalog before installing Configuration Manager 4.3.1 Fix Pack 1, then you must migrate the signatures belonging to the IBM software catalog. To do this, after upgrading the inventory schema as described in "Updating the inventory schema" on page 27, perform the following steps:

1. Download the latest IBM software catalog file from the following Web site: http://www-306.ibm.com/software/sysmgmt/products/support/ IBMTivoliLicenseManager.html
2. Run the following command:

   `winvmigrate -c IBM_software_catalog_file`

If you plan to implement license management facilities in your Configuration Manager environment, refer to `IBM Tivoli Configuration Manager: License Management with License Compliance Manager version 2.3`.

Upgrading plug-ins

To upgrade plug-ins, you must run the upgrade scripts for Activity Planner.

If you have installed 4.3.1-TIV-APM-FP0001, 4.3.1-TIV-SWDSRV-FP0001, and 4.3.1-TIV-INV-FP0001 run the following scripts located in the `$BINDIR/TME/APM/ SCRIPTS` directory. You must have the APM_Admin Tivoli region authorization role to run them.

sh reg_swd_plugin.sh -r
> Enables the Activity Planner for Software Distribution.

sh reg_inv_plugin.sh -r
> Enables the Activity Planner for Inventory.

sh reg_tl_plugin.sh -r
> Enables the Activity Planner for the Task Library.

Run the **wstopapm** and **wstartapm** commands, after running the scripts.

Documentation notes

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

Documentation problems and corrections contained in this fix pack

User's Guide for Inventory

This section contains new and updated information for *IBM Tivoli Configuration Manager User's Guide for Inventory*:

In Appendix F. Troubleshooting, in the "Scalable Collection Service" section, before the "Log and data files" section:

add the following information:

Symptom catalog and log files adapters

Starting from the Autonomic Computing AC Log and Trace 4.5.0.3 fix pack, adapters are supported for the **mcollect.log** file.

In this fix pack are available also the symptom catalogs for Tivoli Configuration Manager version 4.3.1.

Defect 247275

In Appendix E. Installing and uninstalling Common Inventory Technology (CIT), in the "Scanning virtual environments" section:

add the following row to the "Versions of VMware tested on CIT" table:

ESX Server 3.5

APAR IZ50799

In Chapter 3. Working with Inventory profiles in the "Software scan configuration options" section, subsection "Scan Options" replace the current text:

Signature data includes the name, size, and usually the quick checksum value of the file used to identify the software product.

with the following text:

Signature data includes the name and the size of the file used to identify the software product.

APAR IZ50799

In Chapter 5. Collecting custom information with Inventory in the "Using signatures" section replace the current text:

Signature data includes the name, size, and usually the Quick checksum value of the file used to identify the software product.

with the following text:

Signature data includes the name and the size of the file used to identify the software product.

APAR IZ50799

In Appendix B. Commands in the "winvsig" section replace the current description for the -**a** command option with the following text:

Adds one or more signatures to the configuration repository, and modifies existing signatures. Each signature must have a unique file name and size. If the specified signature already exists, the information for the existing signature (for example, the description or version) is modified.

APAR IZ50799

In Appendix B. Commands in the "winvsig" section replace the current description for the -**f** command option with the following text:

Specifies the name of a file that contains the data for one or more signatures. The signature data in the file must be in the following format:

```
<I>,name,size,description,version
```

The signature file supports also the XML file format.

APAR IZ53312

At the end of Appendix E. Installing and uninstalling Common Inventory Technology (CIT), add the following new section:

Setting the CIT processes priority on Windows

On Windows platforms, you can specify locally on each endpoint the priority for the different CIT processes by editing the **cit.properties** file and adding, for example, the following priorities:

```
fscanner.changepriority=low
swscanner.changepriority=low
hwscanner.changepriority=low
vpdscanner.changepriority=low
```

If you want to add the priority settings directly to the **CIT_win.spb** package used to install CIT, perform the following steps:

1. Take the **CIT_win.spb** package from a gateway. The package is located under the *..bin/lcf_bundle.41100/lib/w32-ix86/inv/CIT/SPB* directory.

2. Using the Software Package Editor disconnected command line, unbuild the **CIT_win.spb** package by running the command:

```
wdubldsp.exe
```

The command extracts a software package (.sp file) and the CIT files.

3. Edit the unpacked **cit.properties** file and add, at the bottom of the file, the following lines:

```
fscanner.changepriority=low
swscanner.changepriority=low
hwscanner.changepriority=low
vpdscanner.changepriority=low
```

Save the file.

4. Build the **CIT_win.spb** again by running the command:

```
wdbldspb.exe
```

The new **CIT_win.spb** now includes the new **cit.properties** file with the priority settings that you set.

5. Save the original **CIT_win.spb** on the gateways and store the new **CIT_win.spb** under the same directory.

6. During the next CIT installations, on the endpoints, are automatically included the CIT priority settings contained in the **cit.properties** file.

APAR IZ53836

In Appendix B. Commands in the "wqueryinv" section add the following note:

Note: When using a Tivoli query containing views sharing the same TME_OBJECT_ID field and running the **wqueryinv** command against that query, the command fails with a parse error due to an ambiguous column reference. For example, if you are using an Oracle database the error message displayed is the following:

```
ORA-00918: column ambiguously defined
```

You can run the command only with Tivoli queries where only one table and view have the TME_OBJECT_ID field.

Database Schema Reference

This section contains new and updated information for *IBM Tivoli Configuration Manager Database Schema Reference*:

Defect 245830

In Chapter 3. Configuration repository views add the following columns to the following views:

Table 15. Columns added to views

Configuration repository view	Columns added to the view
V_ACT_ST	COUNTER
V_ACT_STATUS_EX	TARGETS
	GATEWAYS
	DEPOTS
V_PLAN_STATUS	TGT_RESOURCE_TYPE
V_PLAN_STATUS_EX	ACTIVITIES
	REC_NUM
V_TGT_ACT_DEP_ST	DEPOT_LABEL
	COUNTER
	START_TIME
	COMPLETION_TIME
V_TGT_ACT_GW_ST	COUNTER
	START_TIME
	COMPLETION_TIME
V_TGT_ACT_ST	COUNTER
V_TGT_GW_FLTR	COUNTER
	START_TIME
	COMPLETION_TIME
ASP_VIEW	COMPUTER_SYS_ID
	TME_OBJECT_ID
CHECK_PACKAGES	PLATFORM
COMPUTER_VIEW	OS_ARCH
IP_ADDR_VIEW	PERM_MAC_ADDRESS

Table 15. Columns added to views (continued)

Configuration repository view	Columns added to the view
LPAR_VIEW	NODECAP_IN_CORES
	LPARCAP_IN_CORES
	SHAREDPC_IN_CORES
	PHYS_SHAREDPC
	PHYS_SHAREDPC_CORES
	LPAR_ONLINE_VP_COUNT
	LPAR_IS_SHARED_TYPE
	LPAR_IS_CAPPED
	LPAR_ENTITLEMENT
	LPAR_MIN_VP_COUNT
	LPAR_MAX_VP_COUNT
	LPAR_MIN_CAPACITY
	LPAR_MAX_CAPACITY
	LPAR_IDLE_CP_WEIGHT
	SMT_IS_ENABLED
	NODE_ACT_PROC_COUNT
LOGICAL_PARTITIONS_VIEW	PHYS_SHAREDPC
	PHYS_SHAREDPC_CORES
	LPAR_ONLINE_VP_COUNT
	LPAR_IS_SHARED_TYPE
	LPAR_IS_CAPPED
	LPAR_ENTITLEMENT
	LPAR_MIN_VP_COUNT
	LPAR_MAX_VP_COUNT
	LPAR_MIN_CAPACITY
	LPAR_MAX_CAPACITY
	LPAR_IDLE_CP_WEIGHT
	SMT_IS_ENABLED
	NODE_ACT_PROC_COUNT
MEM_MODULES_TOTAL	TME_OBJECT_ID
OS_VIEW	OS_ARCH
PACKAGE_FILE_VIEW	PLATFORM
PC_BIOS_VIEW	UPTIME

Table 15. Columns added to views (continued)

Configuration repository view	Columns added to the view
SERVICE_INFO_VIEW	TME_OBJECT_LABEL TME_OBJECT_ID
SMBIOS_DATA_VIEW	SYS_PRODUCT_NAME POWERON_PASSWORD
SWARE_MATCH_CRC32	CHECKSUM_CRC32
SWARE_MATCH_MD5	CHECKSUM_MD5
SWARE_MATCH_QUICK	CHECKSUM_QUICK
EP_PATCHES_VIEW	GUID UPDATEID REBOOTBEHAVIOR
PM_PATCHES_VIEW	GUID UPDATEID REBOOTBEHAVIOR
SP_PATCHES_VIEW	GUID UPDATEID REBOOTBEHAVIOR
DEV_DET_BEA_VIEW	DEVICE_ID
DEV_DET_EXT_VIEW	DEVICE_ID
DEV_INFO_BEA_VIEW	DEVICE_ID
DEV_INFO_EXT_VIEW	DEVICE_ID
DMACC_CON_EXT_VIEW	DEVICE_ID
MO_LOGIN_VIEW	NAME TW LOGINTY DATA RECORD_TIME

Defect 245830
>In Chapter 3. Configuration repository views remove the following
>columns from the following views:

Table 16. Columns removed from views

Configuration repository view	Columns removed from the view
V_PLAN_STATUS_EX	REC_NUMBER
SMBIOS_DATA_VIEW	PRODUCT_NAME
NOSIG_FILES_VIEW	PATH
DEV_DET_BEA_VIEW	LABEL
DEV_DET_EXT_VIEW	LABEL

Table 16. Columns removed from views (continued)

Configuration repository view	Columns removed from the view
DEV_INFO_BEA_VIEW	LABEL
DEV_INFO_EXT_VIEW	LABEL
DMACC_CON_EXT_VIEW	LABEL

Defect 245830

In Chapter 4. Queries add the following columns to the following queries:

Table 17. Columns added to queries

Query	Columns added to the query
ASP_QUERY	TME_OBJECT_ID
	COMPUTER_SYS_ID
COMPUTER_QUERY	OS_ARCH
INST_FILE_QUERY	FILE_SIZE_KB
INVENTORY_SWARE	ACCESSED_TIME
IP_ADDR_QUERY	PERM_MAC_ADDRESS
LOGICAL_PARTITIONED_SYSTEMS_QUERY	NODECAP_IN_CORES
LOGICAL_PARTITIONS_QUERY	LPARCAP_IN_CORES
	NODECAP_IN_CORES
	SHAREDPC_IN_CORES
	PHYS_SHAREDPC
	PHYS_SHAREDPC_CORES
	LPAR_ONLINE_VP_COUNT
	LPAR_IS_SHARED_TYPE
	LPAR_IS_CAPPED
	LPAR_ENTITLEMENT
	LPAR_MIN_VP_COUNT
	LPAR_MAX_VP_COUNT
	LPAR_MIN_CAPACITY
	LPAR_MAX_CAPACITY
	LPAR_IDLE_CP_WEIGHT
	SMT_IS_ENABLED
	NODE_ACT_PROC_COUNT
MEM_MODULES_TOTAL	TME_OBJECT_ID
OS_QUERY	OS_ARCH

Table 17. Columns added to queries (continued)

Query	Columns added to the query
SERVICE_INFO_QUERY	TME_OBJECT_LABEL TME_OBJECT_ID COMPUTER_SYS_ID RECORD_TIME
SOLARIS_CPU_QUERY	PROCESSOR_NUM
MO_AP_NAP_QUERY	RECORD_TIME
MO_AP_NAPB_QUERY	RECORD_TIME
MO_AP_NAPD_QUERY	RECORD_TIME
MO_AP_NAPN_QUERY	RECORD_TIME
MO_AP_PX_QUERY	RECORD_TIME
MO_AP_PXA_QUERY	RECORD_TIME
MO_AP_PXD_QUERY	RECORD_TIME
MO_AP_PXN_QUERY	RECORD_TIME
MO_AP_PXNO_QUERY	RECORD_TIME
MO_AP_PXP_QUERY	RECORD_TIME
MO_DS_DB_QUERY	RECORD_TIME
CM_STATUS_QUERY	TME_OBJECT_ID

Defect 245830

In Chapter 4. Queries remove the following columns from the following queries:

Table 18. Columns removed from queries

Query	Columns removed from the query
ALL_NET_CARD_QUERY	ADAPTER_ID
SERVICE_INFO_QUERY	SPATH_NAME SSTARTED
MO_AP_NAP_QUERY	DEVICE_ID
MO_AP_NAPB_QUERY	DEVICE_ID
MO_AP_NAPD_QUERY	DEVICE_ID
MO_AP_NAPN_QUERY	DEVICE_ID
MO_AP_PX_QUERY	DEVICE_ID
MO_AP_PXA_QUERY	DEVICE_ID
MO_AP_PXD_QUERY	DEVICE_ID
MO_AP_PXN_QUERY	DEVICE_ID
MO_AP_PXNO_QUERY	DEVICE_ID
MO_AP_PXP_QUERY	DEVICE_ID
MO_DS_DB_QUERY	DEVICE_ID

Defect 245830

In Chapter 4. Queries add the following queries to the table contained in the section named "Subscription queries":

- LINUX_PPC_SUBSCRIPTION
- DIGITAL_UNIX_SUBSCRIPTION
- RELIANT_UNIX_SUBSCRIPTION
- SCO_UNIXWARE_SUBSCRIPTION
- WIN_2003_SUBSCRIPTION
- SOLARIS_x86_SUBSCRIPTION
- SGI_SUBSCRIPTION
- SEQUENT_SUBSCRIPTION

Defect 245830

In Chapter 5. Configuration repository tables add the following columns to the following tables:

Table 19. Columns added to tables

Configuration repository table	Columns added to the table
COMPUTER	OS_ARCH
FILE_DESC	FILE_SIZE_KB
INST_SERVICE_INFO	DNAME
	SDESC
	SPATH_NAME
	STYPE
	SSTARTED
	SSTART_MODE
	SDISPLAY_NAME
	SSTATE
	SSTATUS
INST_SMBIOS_DATA	POWERON_PASSWORD
IP_ADDR	PERM_MAC_ADDRESS

Table 19. Columns added to tables (continued)

Configuration repository table	Columns added to the table
LPAR	PHYS_SHAREDPC
	PHYS_SHAREDPC_CORES
	LPAR_ONLINE_VP_COUNT
	LPAR_IS_SHARED_TYPE
	LPAR_IS_CAPPED
	LPAR_ENTITLEMENT
	LPAR_MIN_VP_COUNT
	LPAR_MAX_VP_COUNT
	LPAR_MIN_CAPACITY
	LPAR_MAX_CAPACITY
	LPAR_IDLE_CP_WEIGHT
	SMT_IS_ENABLED
	NODE_ACT_PROC_COUNT
MATCHED_SWARE	MD5_ID
PM_PATCH_INFO	GUID
	UPDATEID
	REBOOTBEHAVIOR
PM_PATCH_PKG	GUID
SYNCDM_DMACC	ADDR

Defect 245830

In Chapter 5. Configuration repository tables remove the following columns from the following tables:

Table 20. Columns removed from tables

Configuration repository table	Columns removed from the table
PM_PATCH_PKG	PROD_MAJOR_VER
	PROD_MINOR_VER
	PROD_LANG
	OS_BASE_NAME
	OS_ARCHITECTURE
	OS_TYPE
	OS_SUBTYPE
	OS_SP_MAJOR_VER
	OS_SP_MINOR_VER

Table 20. Columns removed from tables (continued)

Configuration repository table	Columns removed from the table
SYNCDM_DMACC	ADDRESS
	NAME

Defect 245830

In Chapter 3. Configuration repository views remove the following views from the chapter:

- MO_TARM_LOCK_VIEW
- MIGR_SWARE_VIEW

Defect 245830

In Chapter 5. Configuration repository tables remove the following tables from the chapter:

- SERVICE_INFO
- MO_TARM_LOCK

Feature 235414

In Chapter 2. History tracking in section "Modifying history tracking for efficiency" replace the first bullet of the section with the following text:

- Exclude any history tables for which you do not want to gather data.

  By default, the h_*database*_schema.sql scripts create a table to correspond to every inventory table in the inv_*database*_schema.sql script that contains the attribute COMPUTER_SYS_ID. If there are tables for which you do not want to keep history tables, perform the following steps:

  1. Create the table EXCLUDED_H_TABLES.

  2. Insert the name of the table to be disabled into the EXCLUDED_H_TABLES table.

  You can find the SQL statements for performing these operations in the `h_inv_*_schema_431_FP01.sql` script file.

APAR IZ48308

In Chapter 3. Configuration repository views in section "PHYSICAL_PROCESSOR_VIEW" add the following columns to the current table:

Table 21. Columns added to Physical Processor View

Column Name	Description
MANUFACTURER	Processor manufacturer. Examples: Intel, AMD, IBM, SUN, HP. If the manufacturer is not recognized (is not in the list of families supported by Common Inventory Technology) then this field has value of "Unknown".
FAMILY	Processor family. Examples: Pentium 4, Xeon, Athlon 64, POWER5, UltraSparc-T1, PA-RISC. If the family is not recognized (not in the list of families supported by Common Inventory Technology) then this field has value of "Unknown".

Table 21. Columns added to Physical Processor View (continued)

Column Name	Description
TYPE	Processor type. Examples: 170 for AMD Opteron 150, 670 for Intel Pentium 4 670. If Common Inventory Technology does not support type identification for the family of processors then this field has value of an empty string. If Common Inventory Technology supports type identification for the family of processors but the type of processor is not recognized then this field has value of "Unknown".
CPU_FREQ	Processor frequency in MHz. This field is optional and vendor specific. Depending on the processor family it might be nominal or current CPU frequency. CPU frequency might be interpreted differently across processor architectures and families. If not valid this field is 0.
L2_CACHE_SIZE	Size of L2 cache in Kilobytes. This field is optional, 0 if not valid.
L3_CACHE_SIZE	Size of L3 cache in Kilobytes. This field is optional, 0 if not valid or there is no L3 cache.
SIGNATURE	Processor signature. This field is optional and platform- and vendor-specific. The value of this field might be taken from different sources on each platform and even for different processor families. If available this is the processor model identifier reported by CPUID instruction, BIOS or OS. This field is for internal Common Inventory Technology purposes only; the exploiter should make no assumption on contents or format of this field.

APAR IZ51439

In Chapter 3. Configuration repository views, in the "NET_CARD_VIEW" section, modify the following information:

- In the PERM_MAC_ADDR row, check the operating system column for Linux (S/390).
- In the CURRENT_ADDR row, check the operating system column for Linux (S/390).
- In the MANUFACTURER row, uncheck the operating system columns for OS/2 and Solaris.

APAR IZ53642

In Chapter 3. Configuration repository views, in the "PRINTER_VIEW" section, replace the current description for the PRINTER_IS_LOCAL column with the following description:

Whether the printer is a local printer or a network printer, and is the default printer or not. This column can assume one of the following values:

Y   The printer is not the default printer and is local.

N   The printer is not the default printer and is not local.

Z   The printer is the default printer and is local.

O   The printer is the default printer and is not local.

Patch Management Guide

This section contains new and updated information for *IBM Tivoli Configuration Manager Patch Management Guide*:

Defect 66832

In Chapter 1. Introduction, section "Operating systems and applications managed with this solution" add the following operating systems to the current list:

- Windows 7
- Windows 2008 r2

and add the following note at the end of the list:

Note: To enable WSUS 3.0 to manage Windows 7 and Windows 2008 r2 endpoints for Patch Management operations, you must download the Windows Server Update Services 3.0 SP2 from the following Microsoft Web site:

http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=a206ae20-2695-436c-9578-3403a7d46e40

Defect 66531

In Chapter 5. Patch installation, section "Managing emergency patches", replace the current description for the *os_base_name* variable with the following text:

os_base_name

Identifies the name of the operating system (winxp, win2k, win2k3, win2k8, vista).

APAR IZ41238

In Chapter 7. Troubleshooting, section ″Problems with the Tivoli Configuration Manager Automation Server silent installation″, subsection named "Checks run during installation", replace the current step 4 of the procedure:

Before starting the Tivoli Configuration Manager Automation Server installation, checks the correctness of the directories for the configuration files and that Windows Instrumentation Service is not running to prevent the failure of the MQ Series component.

with the following text:

Before starting the Tivoli Configuration Manager Automation Server installation, checks the correctness of the directories for the configuration files.

APAR IZ41238

In Chapter 2. Installing the automated patch management solution, section ″Installing and configuring Cygwin″, add at the end of the current step 4 the following text:

The new output of the **mount** -**m** command will be:

```
mount -f -s -b "C:/cygwin/bin" "/usr/bin" mount -f -s -b
"C:/cygwin/lib" "/usr/lib" mount -f -s -b "C:/cygwin" "/"
```

APAR IZ41238

In Chapter 2. Installing the automated patch management solution, section ″Installing and configuring Cygwin″, add at the end of the current section the following new steps:

- Create a copy of the tpm_install folder. When you have locally copied the installation CD and customized the tpm_install.req file, create a copy of the subdirectory: tpm_images\cd2\tpm_install.
- Remove the ^M character. Under the tpm_images\cd2\tpm_install folder, run the dos2unix command against all files to remove all the ^M characters.
- If you are running on Windows 2003 Standard with SP1, verify that the Windows Firewall/Internet Connection Sharing (ICS) service is started.

Planning and Installation Guide

This section contains new and updated information for *IBM Tivoli Configuration Manager Planning and Installation Guide*:

Defect 66291

In Chapter 5. IBM Tivoli Configuration Manager Installation and Upgrade, section ″Custom Server Installation″, in step 11 of the procedure, add after the following bullet:

- Activity Planner requires a user name and password

the following information:

If you are using a Windows workstation and the password policy rules are enabled, the password that you specify for the new **tivapm** user must meet the operating system password requirements. Otherwise the Activity Planner installation completes successfully, but the user is not created.

APAR IZ40233

In Chapter 3. Component Installation Prerequisites, section ″Installation Options″, subsection ″Software Package Editor″ add the following note at the end of the section:

Note: For Red Hat Enterprise Linux 5.0 platforms, before you start using Software Package Editor, ensure that you have the following required packages installed:
- libXp.so.6 (included in libXp-1.0.0-8.i386.rpm)
- libXmu.so.6 (included in libXmu-1.0.2-5.i386.rpm)

APAR IZ46662

In Chapter 3. Component Installation Prerequisites in section ″Components Installed From Software Package Blocks″ subsection ″Software Packages for the IBM Tivoli Configuration Manager Administrative Interfaces″, remove the following row from Table 9. Software Packages for Installing the Administrative Interfaces:

Table 22. Software Packages for Installing the Administrative Interfaces

Tivoli_MD2GUI_L10N	The language support packages for the Distribution Status console, version 4.3.1. The prerequisite for this package is Tivoli_MD2GUI.

APAR IZ51452

In Chapter 7. Maintaining and Troubleshooting a Configuration

Management Environment, add the following section after the section named "Troubleshooting a Tivoli Management Framework installation":

Troubleshooting a Tivoli Management Framework silent installation

When you install IBM Tivoli Configuration Manager on Windows 2008 platforms in Japanese language using a silent installation, the Tivoli Management Framework installation might hang. As a workaround, proceed first with the Tivoli Management Framework installation using Tivoli Management Framework CD 1. When this installation is complete, launch the usual IBM Tivoli Configuration Manager installation using the product CD 5.

APAR IZ44183

In Chapter 4 ″Working With Repositories and Queries″, remove the current section named ″Upgrade and migration considerations″.

APAR IZ44183

Between Appendix A and Appendix B add the following new Appendix named ″Upgrade and migration considerations″.

Upgrade and migration considerations: This chapter describes how to upgrade Tivoli Management Framework and the IBM Tivoli Configuration Manager components.

Tivoli Management Framework backward compatibility rules

The upgrade is based on the following Tivoli Management Framework version 4.3.1 backward compatibility rules:

- Tivoli Management Framework can be upgraded from the following Tivoli Management Framework versions:
  - 3.7
  - 3.7.1
  - 4.1
  - 4.1.1
- Any application built with the following Tivoli Management Framework versions:
  - 3.7
  - 3.7.1
  - 4.1
  - 4.1.1

  will continue to work on an upgraded platform, if Tivoli Management Framework version 4.3.1 is supported on that platform.
- A 4.3.1 Tivoli region will support back level (3.7, 3.7.1, 4.1, 4.1.1) managed nodes, gateways, and endpoints.
- A 4.3.1 Tivoli region can be interconnected to a Tivoli region at 3.7, 3.7.1, 4.1 and 4.1.1 levels.

  Note: In these cases the new feature will not be available on the back level managed nodes and gateways, and on the endpoints attached to back level managed nodes and gateways.

Tivoli Configuration Manager backward compatibility rules

The upgrade is also based on the following IBM Tivoli Configuration Manager 4.3.1 backward compatibility rules:

- You can upgrade to IBM Tivoli Configuration Manager version 4.3.1, starting from IBM Tivoli Configuration Manager version 4.2.2 or IBM Tivoli Configuration Manager version 4.2.3.
- If you upgrade from earlier IBM Tivoli Configuration Manager versions, you must perform additional steps to migrate from the starting release to version 4.2.3 or 4.2.2.

The upgrade can be performed using the classical procedure based on Tivoli Management Framework, the InstallShield MultiPlatform (ISMP) installation on the supported platforms, or the Tivoli Software Installation Service (SIS) on the supported platforms.

The IBM Tivoli Configuration Manager version 4.3.1 release does not contain enhancements that require changes in the Inventory schema. The Inventory schema upgrade modifies only the schema from the starting IBM Tivoli Configuration Manager release to the latest 4.2.3 maintenance level.

To upgrade the Inventory schema, apply the same procedure used when installing a IBM Tivoli Configuration Manager fix pack.

The images of IBM Tivoli Configuration Manager version 4.3.1 contain all the SQL scripts released with any 4.2.2 and 4.2.3 fix pack, up to 4.2.2-TIV-TCM-FP0006. You must run a subset of these scripts depending on the database vendor and the starting IBM Tivoli Configuration Manager release or fix pack.

Recommended steps for migrating large environments: To migrate large environments, it is recommended that you first upgrade to Tivoli Management Framework 4.3.1, and then start upgrading to IBM Tivoli Configuration Manager 4.3.1.

Upgrading Tivoli Management Framework: To upgrade Tivoli Management Framework, it is recommended that you use the following order (top-down approach):
1. Hubs (First the Tivoli server, then the managed nodes and the gateways)
2. Spokes (First the Tivoli server, then the managed nodes and the gateways)
3. Endpoints

At the end of this phase you will have the Tivoli Management Framework infrastructure upgraded to 4.3.1 and IBM Tivoli Configuration Manager still working at 4.2.x level.

Upgrading IBM Tivoli Configuration Manager: To upgrade IBM Tivoli Configuration Manager, it is recommended that you use the following order (bottom-up approach):
1. Spokes Tivoli Configuration Manager gateways
2. Hubs Tivoli Configuration Manager gateways
3. Spokes Tivoli Configuration Manager server
4. Hubs Tivoli Configuration Manager server
5. Database schema

If during the upgrade phase you want to run an Inventory scan from a back level Configuration Manager server to 4.3.1 endpoints attached to gateways on which

IBM Tivoli Configuration Manager has already been upgraded to 4.3.1, run the following command against each gateway that has already been upgraded to Tivoli Management Framework 4.3.1:

```
wlevlmeth -a gateway_name (| all)
```

The wlevlmeth utility is located under the /utils folder of the IBM Tivoli Configuration Manager version 4.3.1 CD. Use the wlevlmeth command to force the endpoints already upgraded to Tivoli Management Framework 4.3.1 to download binaries starting from the gateway bundles older than the 4.3.1 ones.

To upgrade IBM Tivoli Configuration Manager, perform these steps:

1. Keep the Configuration Manager server components at back level.
2. If needed, run the commands **wlevmeth** -**a** *gateway_name* or **wlevmeth** -**a all**, depending on if you want to issue the command against a specific gateway or against each gateway in the Tivoli region.
3. Upgrade the Configuration Manager gateway components in your environment. During this phase, you can perform any Configuration Manager action against all the endpoints in your environment.
4. When all the gateways are upgraded, and all the endpoints are upgraded to Tivoli Management Framework 4.3.1, ensure that no Configuration Manager distributions are running.
5. Upgrade the Configuration Manager server components and the schema.
6. If you issued the **wlevmeth** command, run now the commands **wlevmeth** -**r** *gateway_name* or **wlevmeth** -**r all** to reset the dependency download mechanism. After performing these commands, the 4.3.1 endpoints are allowed to download binaries starting from 4.3.1 gateway bundles.
7. Check that the back level method flag has been restored by running **wgateway gw_name get backlevel_methods**. The command should return for each gateway the following output:

```
backlevel_methods: NULL
```

8. Start to perform any Configuration Manager action in the upgraded environment.

Notes:

1. After upgrading the Configuration Manager server components and schema to 4.3.1, within a Tivoli region boundary, the 4.3.1 Inventory component might no longer support back level endpoints (for example at 3.7.x or 4.1.x level) because the database schema and scanner are no longer synchronized. For this reason some information, such as the signature software scan related data, cannot be collected, or there is a performance issue when trying to insert data to no longer existing or modified tables, such as service_info, matched_sware. Because these issues occur for all Configuration Manager schemas older than 4.2.3 Fix Pack 4, it is strongly recommended that you migrate all the endpoints to 4.3.1 before upgrading the Configuration Manager server and schema to 4.3.1.

2. Configuration Manager 4.3.1 server components change the dependency set. A new 3.7.x or 4.1.x endpoint, that never received an Inventory scan or a Software Distribution action before the Configuration Manager upgrade to 4.3.1, might not be able to download from the gateway all the necessary binaries. For this reason it is strongly recommended to have all new endpoints, installed after the Configuration Manager upgrade to 4.3.1, at Tivoli Management Framework 4.3.1 level.

You cannot perform a Fresh Install of 4.2.3 Configuration Manager gateway components, after upgrading to 4.3.1 Tivoli Management Framework on the managed nodes of your environment.

If you cannot exclude the possibility that an old 3.7.x or 4.1.x endpoint connects to a Configuration Manager environment already migrated to 4.3.1, to minimize the impact caused by a mismatch between the Configuration Manager 4.3.1 schema and the 4.3.1 scanners we suggest that you:

- Disable the software signature software scan if you have a schema older than 4.2.3 Fix Pack 4.
- Disable the Service Info from the PC hardware scan section.
- Set to 1 the number of retries when a failure occurs when inserting data into the database using the **wsetinvdh -r 1** command.

3. If you upgrade Configuration Manager starting from one of the following versions:
   - 4.2.2
   - 4.2.3 GA level
   - 4.2.3 Fix Pack 1

   take into account that the Configuration Manager scan is performed, after 4.2.3 Fix Pack 2, by the Common Inventory Technology (CIT) component. This is a component of Tivoli Configuration Manager, which can be installed from the Software Distribution disconnected command line using SPB files. The Software Distribution disconnected command line and the SPB files for installing Common Inventory Technology are downloaded to the endpoint when the first Inventory scan is performed, after the upgrade of the Configuration Manager server and gateways to 4.3.1. During this Inventory scan, the first action that occurs is the Common Inventory Technology installation.

   For more details about disk space requirements, refer to *IBM Tivoli Configuration Manager: Release Notes version 4.3.1*. Common Inventory Technology is installed using the following default paths:

   UNIX   */opt/tivoli/cit /etc/cit*

   Windows
         C:\Program Files\Tivoli\cit and *C:\Windows\cit*

   You can change the default installation path and also plan to install Common Inventory Technology in a more controlled way by using Software Distribution from the Configuration Manager server.

   For more details about how to install Common Inventory Technology, refer to *IBM Tivoli Configuration Manager: User's Guide for Inventory version 4.3.1* Common Inventory Technology does not interact with a Tivoli Configuration Manager Inventory component installed before 4.2.3 Fix Pack 2, until it is upgraded to 4.3.1. Ensure that you plan to install Common Inventory Technology in a controlled way before upgrading to 4.3.1.

4. If you upgrade Configuration Manager starting from a version older than 4.2.3 Fix Pack 2, the first scan you perform on the endpoints fails because of a number of mismatches in the MIF file attribute, because the MIF file structure changed after 4.2.3 Fix Pack 2. To work around this problem, delete the previous *.bk* and *.mif files from the inv/SCAN directory before running a new scan. You can perform this operation by inserting the delete statements (for example, ″rm *.bk*″ or ″del *.bk*″) in the before scan script section of the InventoryConfig profile.

Reference Manual for Software Distribution

This section contains new and updated information for *IBM Tivoli Configuration Manager Reference Manual for Software Distribution*:

APAR IZ53412

In Chapter 1. Editing the Software Package Definition File, section "Structure of the SPD File", before the paragraph:

The sections where these stanzas are described show the structure in which you should define each stanza and provide examples.

add the following paragraph:

At installation time, the installation of a software package starts only if, during the check of the conditions specified in all software package stanzas, all these conditions are verified.

APAR IZ57893

In Chapter 1. Editing the Software Package Definition File, section "Attributes in the File System Stanzas" table "SPD File attributes in file system stanzas" in the row for the **descend_dirs** attribute:

add the following note:

On UNIX platforms if you set this attribute to **y** when creating software packages, to which a directory is added containing backward slashes, performing the **winstsp** command on the software package fails. To successfully install the software package on UNIX platforms, do not add to the package a directory containing backward slashes.

User's Guide for Deployment Services

This section contains new and updated information for *IBM Tivoli Configuration Manager User's Guide for Deployment Services*:

In Chapter 4. Troubleshooting, before the "Activity Planner Logs and Traces" section:

add the following information:

Symptom catalog and log files adapters

Starting from the Autonomic Computing AC Log and Trace 4.5.0.3 fix pack, adapters are supported for the **apmlog0** log file.

From this fix pack also the symptom catalogs for Tivoli Configuration Manager 4.3.1. are available.

Release Notes

This section contains new and updated information for *IBM Tivoli Configuration Manager Release Notes*:

Defect 66684

In Chapter 3. Software limitations, problems, and workarounds, section "Software limitations", subsection "Activity Planner" replace the current bullet:

- Activity Planner might not start on HP-UX 11. This is due to a limitation of the HP-UX platform.

with the following text:

- Activity Planner might not start on HP-UX 11i. This is due to a limitation of the HP-UX platform.

Defect 66684

In Chapter 2. Installation and upgrade notes, section "Installation program requirements", subsection "General prerequisites for installation programs" remove the following information:

- For HP-UX 11, Quality Pack QPK1100.

and replace the URL:

- http://www.software.hp.com/SUPPORT_PLUS/qpk.html

with the following URL:

- http://www13.itrc.hp.com/service/patch/mainPage.do

APAR IZ40926

In Chapter 2. Installation and upgrade notes, section "Application Prerequisites" replace the current bullet:

- Red Hat Linux Enterprise Server, version 5 requires the libstdc++.so.5 compatibility pack

with the following text:

- Red Hat Linux Enterprise Server, version 5 requires the libstdc++.so.5 compatibility pack which is included in the libstdc++-296-2.96-138.i386.rpm package.

Defect 66322

In Chapter 2. Installation and upgrade notes, section "Application Prerequisites" replace the current bullet:

- Red Hat Linux Enterprise Server, version 5 requires the libstdc++.so.5 compatibility pack which is included in the libstdc++-296-2.96-138.i386.rpm package.

with the following text:

On Red Hat Linux Enterprise Server, version 5 32-bit operating systems, the following packages are required:

- compat-libstdc++-296-2.96-138.i386.rpm
- libXmu-1.0.2-5.i386.rpm
- libXp-1.0.0-8.1.el5.i386.rpm

On Red Hat Linux Enterprise Server, version 5 64-bit operating systems, the following packages are required:

- compat-libstdc++-296-2.96-138.i386.rpm
- libXmu-1.0.2-5.i386.rpm
- libXp-1.0.0-8.1.el5.i386.rpm
- libXp-1.0.0-8.1.el5.x86_64.rpm
- libXpm-3.5.5-3.x86_64.rpm

APAR IZ44669

In Chapter 3. Software limitations, problems, and workarounds in section "Software problems and workarounds" in subsection named "Installation", add the following text to the current list:

APAR IZ44669

Problem: When installing Tivoli Configuration Manager version 431 on Red Hat Linux Enterprise Server version 5 in Japanese language, the installation wizard panels display garbled characters because some language font files are missing.

Workaround: Before installing Tivoli Configuration Manager version 431, perform the following steps:

1. Download tnrwt_j.ttf, which is the Japanese language font file for IBM World Type Font, from official IBM Web sites such as:

   ```
   ftp://submit.boulder.ibm.com/download/typography/fonts/worldtype/
   archive/wt__/2002-02-13/
   ```

2. Copy the tnrwt_j.ttf file to the *JRE_HOME/*lib*/*fonts directory on the server where you want to install Tivoli Configuration Manager version 431.

3. Move to the *JRE_HOME/*lib*/*fonts directory.

4. Run the command:

   ```
   ttmkfdir > fonts.dir
   ```

5. Run the command:

   ```
   chkfontpath --add JRE_HOME/lib/fonts
   ```

Note: An example for the *JRE_HOME/*lib*/*fonts directory is:

   ```
   /opt/IBMJava2-131/jre/lib/fonts
   ```

APAR IZ51452

In Chapter 3. Software limitations, problems, and workarounds, section ″Software problems and workarounds″ subsection ″Installation″, add the following bullet:

* APAR IZ51452: Silent installation of Tivoli Management Framework might hang on Windows 2008 platforms in Japanese language

  When you install IBM Tivoli Configuration Manager on Windows 2008 platforms in Japanese language using a silent installation, the Tivoli Management Framework installation might hang.

  Workaround: Proceed first with the Tivoli Management Framework installation using Tivoli Management Framework CD 1. When this installation is complete, launch the usual IBM Tivoli Configuration Manager installation using the product CD 5.

License Management with License Compliance Manager Version 2.3 Fix Pack 4

This section contains new and updated information for *IBM Tivoli Configuration Manager License Management with License Compliance Manager Version 2.3 Fix Pack 4*:

Defect 65890

In Chapter 5. Deploying and configuring agents, section ″Reassigning agents to divisions″, in the sample XML input file described in the section, replace the line:

```
<!DOCTYPE agentRemappings SYSTEM "agtRemappings.dtd">
```

with the following line:

```
<!DOCTYPE agentRemappings SYSTEM "AgentRemappings.dtd">
```

Defect 65890

In Chapter 11. Command reference, section ″**agtremap**″ replace the *xml_file* description:

The absolute path to the XML file containing the list of agent IDs and Tivoli OIDs to be remapped to different divisions. This file must be located in the same folder as the document type definition (DTD) file. The DTD file is copied to the path

```
$INSTALL_DIR/admin/SLM_Admin_Application.ear\slm_admin.war\webdoc\xml\
import\agentRemappings.dtd
```

with the installation of the License Compliance Manager administration
server infrastructure element.

with the following text:

The absolute path to the XML file containing the list of agent IDs and
Tivoli OIDs to be remapped to different divisions. Add to the XML file a
DOCTYPE line containing the full path to the document type definition
(DTD) file as shown in the following example:

```
<!DOCTYPE agentRemappings SYSTEM "C:\Program Files\IBM\TLM\admin\
SLM_Admin_Application.ear\slm_admin.war\
webdoc\xml\import\AgentRemappings.dtd">
```

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