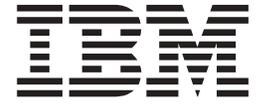


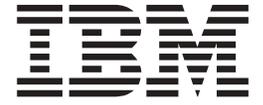
IBM Tivoli Configuration Manager



Readme File for Fix Pack 1 - PTF U802046

Version 4.2.2

IBM Tivoli Configuration Manager



Readme File for Fix Pack 1 - PTF U802046

Version 4.2.2

Note

Before using this information and the product it supports, read the information in "Notices" on page 67.

First Edition (July 2005)

This edition applies to fix pack 1 (PTF U802046) for version 4, release 2, modification level 2 of IBM Tivoli Configuration Manager (program number 5724-C06).

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Chapter 1. IBM Tivoli Configuration Manager 4.2.2 Readme File for Fix Pack 1 (PTF U802046)

This readme file provides important information about Fix Pack 1 (PTF U802046) for IBM® Tivoli® Configuration Manager Version 4.2.2. This readme file is the most current information for the fix pack and takes precedence over all other documentation for IBM Tivoli Configuration Manager, Version 4.2.2 (ITCM). This fix pack fixes a variety of defects on Software Distribution (SWD) , Inventory, Activity Planner (APM), Change Manager (CCM), Tivoli Resource Manager, Web User Interface, Query Directory and MCollect components.

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

About this release

This section includes the following topics:

- “CD-ROM structure”
- “New features” on page 2
- “Backward compatibility issues” on page 13
- “Product compatibility” on page 14
- “Limitations” on page 14

CD-ROM structure

IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 1 includes *two* CD-ROMs:

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

Directory or path	Contents
/xml	The XML file to be used by the ISMP installation program.
/docs	Readme file.
/images/INVENTORY	Images required for Inventory interim fixes.
/images/MCOLLECT	Images required for the Scalable Collection Services interim fixes.
/images/SWD	Images required for Software Distribution, Activity Planner, Change Manager, Tivoli Resource Manager, Enterprise Query Directory.

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

Directory or path	Contents
/LoginControl	Software package block (SPB) and executable files used to implement the concurrent login feature. For more information on this feature, see “New features” on page 2.
/package	Software package block (SPB) files used to patch GUI components and the XML descriptor file.
/spb_installer	SPB Patch Installer that installs SPB interim fixes locally and the SPB Patch Installer Guide.

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

Directory or path	Contents
/JarVersion	Scripts to retrieve and display the version of the .jar files currently installed.

New features

The following new features have been introduced with this fix pack:

Canceling an activity plan in Starting state - APAR IY70368

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

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

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

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

If you specify the **-G** option or select the **Modify Destination Path** check box, the file is saved on the destination system according to the following naming convention: *name_endpoint_timestamp_distribution_id.extension*. If you do not specify the **-G** option or select the **Modify Destination Path** check box, the default behavior applies and the retrieved file is saved with its original name to a directory on the destination system named according to the following convention: *endpoint_distribution_id_timestamp*.

Avoiding concurrent logins during critical distributions - Feature 54613

On Windows® operating systems, you can use the concurrent login feature to prevent the end user from logging in to the workstation and performing a shutdown while a distribution is taking place. This feature guarantees that critical distributions are not interrupted. You can also define a maximum number of logins that can be performed during a distribution. In this case, the distribution is paused and restarts after the user logs off. For more information, see “Implementing the concurrent login feature” on page 3.

Displaying the .jar files version - Feature 55204

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

On UNIX® operating systems:
`./wjarversion.sh jarfile`

On Windows operating systems:

wjarversion.bat *jarfile*

where:

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

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

The files required for implementing this feature are located in the /JarVersion folder on IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 1 CD 2.

Implementing the concurrent login feature

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

Installing the concurrent login feature

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

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

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

1. Install the **4.2.2-SWDSRV-FP01** Software Distribution server patch to update the Software Distribution command line and GUI.
2. Install the **4.2.2-SWDGW-FP01** Software Distribution gateway patch to update Windows endpoints.
3. Install the **4.2.2-APM-FP01** Activity Planner patch to update the Activity Planner GUI.
4. Upgrade the Activity Planner plug-ins, as described in “Upgrading plug-ins” on page 55.
5. Distribute the **Tivoli_login_control_4.2.2.spb** software packages to the endpoints.
6. Type the following command to enable the feature on the specified endpoint:

```
wep endpoint_name set allow_distribution_control on
```

where:

endpoint_name

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

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

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

Configuring the concurrent login feature

After installing the concurrent login feature as described in “Installing the concurrent login feature” on page 3, you can configure the registry keys created on the endpoints with the **Tivoli_login_control_4.2.2.spb** software package.

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

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

To view and edit the registry keys, use the **wdepccm** command. For more information on this command, see “wdepccm” on page 8.

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

Keys located in

HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification

IsEnabled

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

TraceLevel

Specifies the tracing level. Supported values are as follows:

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

TracePath

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

DenyPopupEnabled

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

PopUpTimeout

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

LoginDeniedTitle

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

LoginDeniedMsg

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

DenyLogonOnPauseError

Specifies whether the user can be allowed to log in to the workstation if an error occurs during an attempt to pause the distribution. Supported values

are **1**, which means the user is not allowed to log in, and **0**, which means the user is allowed to log in. The default value is **1**.

LoginDeniedMsgOnPauseError

Defines the text contained in the dialog box displayed on the endpoint if the distribution cannot be paused and you set the

DenyLogonOnPauseError key to **1**. When customizing the message, you can use the `\r\n` symbols for inserting a carriage return and the `$(DIST_ID)` variable which is replaced at run time with the distribution ID. The default value is: " The pause failed for distribution `$(DIST_ID)`\r\n Contact system administrator."

SwitchPopupDesktop

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

LogoffType

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

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

DefaultShutdownAllowdBeforeReset

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

CompletionPopupEnabled

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

CompletionProgramPath

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

CompletionPopupTitle

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

CompletionPopupMsg

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

ShutdownPopupEnabled

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

LogoffShutdownString. Supported values are **0**, which means the message is not displayed, and **1**, which means the message is displayed. The default value is **1**.

ShutdownPopupMsg

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

Keys located in

HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification\upcall

LCF_BINDIR

Is the fully qualified path to the LCF_BINDIR.

LCF_CACHEDIR

Is the fully qualified path to the LCF_CACHEDIR.

LCF_DATDIR

Is the fully qualified path to the LCF_DATDIR.

UpcallProgram

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

UpcallTimeout

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

Keys located in

HKEY_LOCAL_MACHINE\SOFTWARE\Tivoli\SWDnotification\wmansd

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

Message

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

Timeout

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

LogoffString

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

LogoffShutdownString

Defines the second option displayed in the message to request whether a

logoff and a shutdown should be performed. If you select this option, a logoff is performed immediately and a shutdown is performed when the distribution completes. The default value is "Logoff and shutdown when complete".

RestartString

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

DefaultAction

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

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

LeftLogonPopupEnabled

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

LeftLogonPopupMsg

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

wdepccm:

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

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

Options:

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

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

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

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

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

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

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

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

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

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

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

0 Traces are disabled. This is the default value.

1 Standard tracing is enabled.

2 Verbose tracing is enabled.

-y *pathname*

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

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

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

-d *max_shutdowns*

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

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

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

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

1 Performs a forced logoff ending all active processes.

2 Performs a logoff ending also hung processes.

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

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

-b *pathname*

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

-u *popup_title*

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

-v *popup_msg*

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

-w [**true** | **false**]

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

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

-z shut_popup_msg

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

-B pathname

Specifies the fully qualified path to the LCF_BINDIR.

-C pathname

Specifies the fully qualified path to the LCF_CACHEDIR.

-D pathname

Specifies the fully qualified path to the LCF_DATDIR.

-U pathname

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

-W timeout

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

-E popup_title

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

-F popup_msg

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

-G timeout

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

-T logoff_str

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

-H logoff_and_shut

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

-K restart_str

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

-J [1 | 2 | 3]

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

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

-P [true | false]

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

-Q message

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

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

0 Indicates that **wdepccm** completed successfully.

other than zero

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

Examples:

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

Using the concurrent login feature

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

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

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

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

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

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

-Y *max_login_allowed*

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

-W

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

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

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

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

Max Login Allowed

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

Disable Shutdown

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

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

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

Backward compatibility issues

This fix pack generates no compatibility issues.

Product compatibility

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

IBM Tivoli Configuration Manager, Version 4.2.1 Fix Pack 3 was tested using Tivoli Management Framework, Version 4.1.1 plus the following interim fixes:

- 4.1.1-LCF-0020 interim fix for endpoints.
- 4.1.1-TMF-0044 and 4.1.1-TMF-039 interim fixes for Tivoli management region servers, managed nodes, and gateways.

Limitations

This fix pack contains no limitations.

Limitations in DBCS environments

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

Defect 176363

In DBCS environments, it can occur that the COMPUTER_QUERY and the H_COMPUTER_QUERY are not properly filled in. In the trace file rim_db_log, you can see the following error message:

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

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

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

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

Defect 53393

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

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

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

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

```
wuninst SWDIS_l10n_ja node -rmfiles
```

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

Product fix history

The following sections include all interim fixes shipped since the IBM Tivoli Configuration Manager, Version 4.2.2 release. It is divided into the following subsections:

- “Fixes contained in this fix pack”
- “Fixes contained in previous interim fixes” on page 47

Fixes contained in this fix pack

Table 3 lists the fixes included in this fix pack:

Table 3. Interim fixes included in this fix pack

Interim fix	Component/Service
4.2.2-INV-FP01	Inventory, Version 4.2.2
4.2.2-INVGW-FP01	Inventory Gateway, Version 4.2.2
4.2.2-CLL-FP01	Scalable Collection Services, Version 4.2.2
4.2.2-SWDSRV-FP01	Software Distribution, Version 4.2.2
4.2.2-SWDGW-FP01	Software Distribution Gateway, Version 4.2.2
4.2.2-SWDJPS-FP01	Software Package Editor, Version 4.2.2
4.2.2-APM-FP01	Activity Planner, Version 4.2.2
4.2.2-CCM-FP01	Change Manager, Version 4.2.2
4.2.2-TRMSRV-FP01	Resource Manager, Version 4.2.2
4.2.2-TRMGW-FP01	Resource Manager Gateway, Version 4.2.2
4.2.2-WEB-FP01	Web Interface, Version 4.2.2
4.2.2-PMSRV-FP01	Pristine Manager 4.2.2
4.2.2-PMGW-FP01	Pristine Manager Gateway 4.2.2

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

Table 4. Inventory internal defects and APARs included in this fix pack

Inventory, Version 4.2.2 4.2.2-INV-FP01				
173514	174581	174635	174642	174654
175123	175167	175168	175507	175648
176418	176561	177490		
IY59253	IY61580	IY62206	IY63636	IY64626
IY64677	IY65052	IY65127	IY65261	IY65415
IY65476	IY65759	IY66256	IY66569	IY66638
IY66722	IY66780	IY66782	IY66998	IY67003
IY67049	IY67171	IY67728	IY67806	IY68056
IY68383	IY68584	IY68619	IY68757	IY68772
IY68793	IY68842	IY68885	IY69103	IY69341
IY69344	IY69466	IY69517	IY69882	IY70006

Table 4. Inventory internal defects and APARs included in this fix pack (continued)

Inventory, Version 4.2.2 4.2.2-INV-FP01				
IY70008	IY70234	IY70283	IY70284	IY70308
IY70320	IY70324	IY70604	IY70846	IY70912
IY70916	IY70951	IY71000	IY71001	IY71015
IY71336	IY71807	IY72224	IY72269	IY72790

The following section describes each defect and APAR in detail:

Defect 175507

Abstract:

Hardware scan does not work on Windows 2003 endpoints with a large drive mapped

Error Description:

If the Windows endpoint to be scanned maps to a remote drive larger than 2 terabytes, the scan fails.

Defect 176561

Abstract:

A .mif parse error is encountered on Windows 2003 endpoints with a large drive mapped using WMI classes

Error Description:

A .mif parse error is encountered on Windows 2003 endpoints if a large drive is mapped using WMI classes The problem is solved if a legacy scan is used.

APAR IY59253

Abstract:

wdistinv returns scan ID equal to -1

Error Description:

The **wdistinv** command is unable to retrieve the scan ID of an InventoryConfig profile that belongs to an interconnected Tivoli region.

APAR IY61580

Abstract:

After applying 4.2-INV-FP03, the **wscanner** command detects an exception on NetWare endpoints.

Error Description:

If you apply 4.2-INV-FP03 and then you run a hardware scan, the **wscanner.nlm** detects the "File tivhscan.mif does not exist" exception on NetWare endpoints.

APAR IY62206

Abstract:

The **wdistinv -T** command fails with: resource 'duplicate' invalid.

Error Description:

The **wdistinv -T** command is unable to distribute an InventoryConfig

profile to all endpoint subscribers specified in the subscription list file if the list is long and in the mean time one of the subscribers is deleted with the **wdelep** command.

APAR IY63636

Abstract:

Inventory scan fails if mrmmbios.mif contains a value enclosed in double quotation marks.

Error Description:

Inventory scan fails if mrmmbios.mif contains a value enclosed in double quotation marks. An error message is displayed:

MIF parse error: mrmmbios.mif: line 63: Syntax error: "LifeBook".

APAR IY64626

Abstract:

The inventory data handler crashes because the .DAT file is corrupt.

Error Description:

When the .DAT file contains invalid value, the inventory data handler crashes.

APAR IY64677

Abstract:

MIF parse error on the tivhscan.mif file caused by the Monitor group.

Error Description:

An incorrect definition of the attribute ID of the Monitor group might generate a parse error in the tivhscan.mif file.

APAR IY65052

Abstract:

Incorrect output of PROCESSOR_NUM_QUERY

Error Description:

Custom scan of an endpoint with multiple processors returns multiple entries, one for each processor, in the PROCESSOR_NUM_VIEW. A new processor_num_view.sql script is provided to solve the problem.

APAR IY65127

Abstract:

Duplicated network printer entries

Error Description:

The hardware scan generates duplicated entries for the same network printer.

APAR IY65261

Abstract:

The Port Name attribute for network printers contains only the sever name.

Error Description:

The Port Name attribute for network printers contains only the server name. It should contain both the server name and the port name when available.

APAR IY65415**Abstract:**

Different BIOS versions for the same target

Error Description:

As the table INST_SMBIOS_DATA has as primary key both COMPUTER_SYS_ID and SMBIOS_ID, different BIOS versions might be reported for the same target.

APAR IY65476**Abstract:**

Oserv general failure

Error Description:

From the "Inventory Profile" panel after scheduling and distributing a job, you get an oserv general failure.

APAR IY65759**Abstract:**

dmi_RDBMS_type_schema.sql fails in dropping the table

Error Description:

The dmi_RDBMS_type_schema.sql script generated when configuring a DMI scan, fails in dropping the table if it runs for a second time. The problem occurs only for Sybase and MS SQL.

APAR IY66256**Abstract:**

Multiple entries for IP address information

Error Description:

Inventory is posting multiple entries for IP address information on many Windows-based endpoints, that only have a single IP address and a single Network Interface.

APAR IY66569**Abstract:**

MIF parse error on Linux® endpoint

Error Description:

On a Linux endpoint, a MIF parse error in tivhscan.mif occurs when parsing the Partition table: syntax error Context: "-"

APAR IY66638**Abstract:**

MIF file copied into .bk1 even if a parse error occurs

Error Description:

During a scan, if a parse error occurs, a MIF file is copied into .bk1, but never sent to the database.

APAR IY66722**Abstract:**

Scan remains pending if a custom MIF file is missing

Error Description:

When distributing an InventoryConfig profile enabled only to pick up a custom MIF file and the file is missing on the target machine, the MDist 2 shows the distribution as 100% successful and the scan ID remains pending in wgetscanstat. If the logging is enabled (inv_ep_debug=3), the INV00(scan_id).log file reports only a WARNING message due to the missing MIF file.

APAR IY66780**Abstract:**

Syntax error in the Oracle scripts

Error Description:

The scripts inv_ora_42_FP05.sql, inv_ora_422_FP01.sql, and inv_ora_421_FP03.sql have the following syntax error: the row / is missing at the end of the statement:

```
CREATE OR REPLACE TRIGGER INSTSMBIOSDATA_TR
BEFORE UPDATE ON INST_SMBIOS_DATA
FOR EACH ROW
BEGIN
:NEW.RECORD_TIME := SYSDATE;
END;
```

APAR IY66782**Abstract:**

If winvrnode fails, no error message is displayed

Error Description:

If DB2[®] fails or if you do not have the required permissions, the winvrnode command with the -l option wrongly returns a success result.

APAR IY66998**Abstract:**

The COMPUTER_BOOT_TIME column is not filled in for Windows systems

Error Description:

The COMPUTER_BOOT_TIME column in Inventory table COMPUTER is not filled in for Windows systems. The data can be extracted through WMI by using the class Win32_OperatingSystem (which is also used for other Inventory information by Tivoli Inventory).

APAR IY67003**Abstract:**

Error message ORA-00904 encountered when running Oracle scripts for Inventory 4.2.2

Error Description:

When running the Oracle scripts to upgrade the Inventory repository from 4.2.1 to 4.2.2 (inv_ora_upgrade_421_422.sql), the ORA-00904 error message (invalid identifier) occurs due to the use of the Oracle reserved word "UID" as a column name (that is in the "CREATE TABLE MO_EMAIL" statement). The same failure also occurs when running the Oracle scripts for the Inventory 4.2.2 fresh installation.

APAR IY67049

Abstract:

Duplicate hot fix entries on Windows

Error Description:

After distributing an Inventory profile configured to scan the registry and the hardware on a Windows endpoint, the NATIV_SWARE_VIEW shows duplicate entries for some Windows hot fixes.

APAR IY67171**Abstract:**

Data from DAT files is not sent to the repository

Error Description:

When running several times the wloadiso command sequentially on the same endpoint machine (Windows 2000) using different groups of DAT files, data from all or some DAT files of the last run is not sent to the Inventory repository.

APAR IY67728**Abstract:**

Problem running the wwaitscan command with a timeout

Error Description:

When running the wwaitscan command with a timeout: wwaitscan -i scan_id -t 1 or wwaitscan -e ep_name -t 1 and the prompt is returned, the return code (echo \$?) is 0 even if the Inventory distribution is still active in wgetsstat. A return code different from zero is required when not all data has been stored in the database.

APAR IY67806**Abstract:**

Hard disks wrongly detected

Error Description:

On Red Hat 7.3, both Inventory 4.0 and the patch 56 detect the correct size for two installed hard disks but in addition they also detect seven hard disks with 0 MB size, which do not exist.

APAR IY68056**Abstract:**

The swsigs.txt file is sent with every signature scan

Error Description:

The swsigs.txt file is sent with every signature scan. There is no way to set a flag not to send the file.

APAR IY68383**Abstract:**

Log file sent by default to data handler

Error Description:

When running the wepscan -s command, the INV_SA.LOG file is sent by default to the data handler together with the INV_SA.DAT file. An option is needed to force the wepscan -s command not to send the log file to the data handler.

APAR IY68584

Abstract:

Hardware scan not showing the correct processor

Error Description:

Hardware scan is not showing the correct value for the processor: it shows "unknown" while WMI shows "Intel(R) Pentium(R) 4 CPU 2.80GHz".

APAR IY68619

Abstract:

Inventory scan fails if the mrmmbios.mif file contains a value between double quotes.

Error Description:

The Inventory scan fails because the mrmmbios.mif file contains a value between double quotes. The problem occurs because the mif parser cannot handle attribute values between double quotes.

APAR IY68757

Abstract:

Problem scanning Toshiba Tecra 8xxx series notebooks.

Error Description:

Inventory encounters a problem scanning the serial number of Toshiba Tecra 8xxx series notebooks. The scanned information in the COMPUTER table shows Y9343641E,PAT80AE-4B6A-GR,460092. This value should only contain the MIF attribute "Serial Number" of the MIF group ComponentId. The scanner is retrieving the value from the mrmmbios.mif file.

APAR IY68772

Abstract:

INV_CB_METHS core dumps after application of 4.2.1-INV-FP02

Error Description:

INV_CB_METHS core dumps after installing the fix pack 4.2.1-INV-FP02, if the collector is down and the scan fails.

APAR IY68793

Abstract:

MIF parse error when performing a hardware scan

Error Description:

A MIF parse error message occurs when performing a hardware scan, due to a negative value in the Memory Modules group:

```
Start Table
Name = "Memory Modules Table"
ID = 31
Class = "TIVOLI
Memory Modules
1"
1,-2048,8192,"DIMM 01","DIMM"
2,-2048,8192,"DIMM 02","DIMM"
....
```

APAR IY68842

Abstract:

Error on Windows Japanese endpoints

Error Description:

When performing a hardware scan on Windows Japanese endpoints, the following error might occur when running the **wrimtrace** command and inserting data into the table COMPUTER:

```
CLI0109E String data right truncation. SQLSTATE=22001
```

APAR IY68885**Abstract:**

PMEM Service fails to start on Windows

Error Description:

After applying 4.2.1-INV-FP02, the System Event log is filling with errors because the PMEM Service fails to start on Windows 2000 and Windows 2003 systems. The system errors are logged each time an Inventory hardware scan is performed.

APAR IY69103, Internal defect 177490**Abstract:**

Hardware scan fails on SuSE Linux 7.3

Error Description:

Hardware scan fails on SuSE Linux 7.3 platforms with a large drive mapped. A MIF parse error is generated by a negative value in the Partition Table.

APAR IY69341**Abstract:**

The `inv_ora_upgrade_421_422.sql` script does not create the T_FILE_DESC table correctly.

Error Description:

The upgrade script modifies the FILE_DESC table, but does not drop and recreate the T_FILE_DESC table based on the changes in the FILE_DESC table.

APAR IY69344**Abstract:**

Error with `inv_db2_mvs_custom_upgrade_42_422.sql`

Error Description:

The upgrade script `inv_db2_mvs_custom_upgrade_42_422.sql` causes an error with the following statement:

```
ALTER TABLE NATIV_SWARE ALTER COLUMN PACKAGE_NAME SET DATA TYPE  
VARCHAR (128)
```

APAR IY69400**Abstract:**

Column ASP_VIEW cannot be created as delivered

Error Description:

The column ASP_VIEW included in the `inv_db2_mvs_421_FP02.sql` script cannot be created as delivered because the COMPUTER_SYS_ID and TM_OBJECT_ID are included in the group by clause, but not in the select list.

APAR IY69466

Abstract:

The **wloadiso** command returns an error on AIX® endpoints

Error Description:

When running the **wloadiso** command from an AIX endpoint to send data for an isolated scan, data (contained in the INV_ISO.DAT file) cannot be sent to the database because the **mc_get_data** on the endpoint fails with the following error in the **mcollect.log** file:

```
Mar 17 14:32:22 1 pid:00024490 tid:537204488 tmf_req_invoke
failed (nobody lcf) for mc_get_data on
1707025648.206.517+ TMF_Endpoint::Endpoint :
CLLFW0005E: Failed to open File:
/opt/tivoli/lcf/inv/ISOLATED/depot/INV_ISO.DAT.
```

APAR IY69517**Abstract:**

Error in Inventory DB2 MVS™ schema scripts for upgrade to ITCM 4.2.2.

Error Description:

DB2 on MVS does not support constraints larger than 255 characters.

APAR IY69882**Abstract:**

MIF parse error on AS/400® due to a maximum size for the parser

Error Description:

If the whole size of the file **tivhscan.mif** is larger than 16384 Kilo Bytes, the parser fails. This problem occurs with AS/400.

APAR IY70006**Abstract:**

Group class name problem

Error Description:

Core dump on UNIX and Dr. Watson on Windows, when reading a custom MIF file that does not contain the class entry in the group.

APAR IY70008**Abstract:**

No Inventory tables updated if **custom.mif** is missing

Error Description:

4.2.1-INV-0012 causes no Inventory tables to be updated if the **custom.mif** file is missing.

APAR IY700039**Abstract:**

wcollect -n command implementation for gateway collector

Error Description:

APAR IY52466 implemented the new parameter **wcollect -n** only for data handlers. This parameter is also required for gateway collectors.

APAR IY70234**Abstract:**

bios.ini ignored during hardware scan

Error Description:

The bios.ini file filled while running the command mrmmbios -d bios -a is ignored during the hardware scan by the mrmmbios tool. The only way to force mrmmbios to read the information from the bios.ini file is to use the command mrmmbios -d bios.ini as a script to run inside the profile, after the scan.

APAR IY70283**Abstract:**

Problem with mc_request_collection when Data Handler crashes

Error Description:

The Data Handler crashes and the Data Handler scheduler is down, the mc_request_collection is invoked by some gateway collectors, but as the threshold is reached, the Data Handler does not attempt to start the scheduler thread in this situation.

APAR IY70284**Abstract:**

CD-ROM and FLOPPY devices not inserted in the database

Error Description:

When performing a hardware scan on Windows machines, CD-ROM and FLOPPY devices are not inserted in the Inventory database due to a duplicate value of the HDISK_ID information. In order to align the inventory database entries with the new identifier number, you should distribute a hardware inventory scan with the replace option only if your target is a Windows machine without a floppy drive.

APAR IY70308**Abstract:**

Obtaining unique serial number for HP-UX servers

Error Description:

The machine identification number is retrieved using the uname interface instead of using the new confstr(3C) or getconf(1) interfaces when available (HP-UX 11i Version 1.5).

APAR IY70320**Abstract:**

Incorrect token COLUMN in the 4.2.2 upgrade script for MSSQL

Error Description:

A syntax error is returned when running one of the following scripts:

- h_inv_ms_sql_upgrade_421_422.sql
- h_inv_syb_upgrade_421_422.sql
- h_inv_ms_sql_upgrade_42_422.sql
- h_inv_syb_upgrade_42_422.sql

due to the incorrect token COLUMN used in the statement.

APAR IY70324**Abstract:**

The hardware scan returns a wrong value for Intel® Pentium® 4 processors

Error Description:

The hardware scan does not return the correct value when scanning Intel Pentium 4 2 processors.

APAR IY70604**Abstract:**

`dist_timeout` value set by the **winvmgr** command is ignored

Error Description:

Even if you set the `dist_timeout` parameter by using the command **winvmgr**, the default timeout period is not overridden.

APAR IY70846**Abstract:**

Inventory scan takes the `lcf.id` value

Error Description:

Even if the GUID exists on the endpoint machine and the `wadminep ep_name view_GUID` returns the correct value, the Inventory scan takes the `lcf.id` value. This is because an old `libguid` module is not replaced by the migration to Inventory 4.2.1. If replacing the module with one from an Inventory 4.2.1 environment, the GUID is taken by the scan as the `computer_sys_id`. The problem occurs on Windows and UNIX endpoints with Inventory 4.2.1 and on UNIX endpoints with Inventory 4.2.1 and Fix Pack 1.

APAR IY70912**Abstract:**

Incorrect user name returned by Inventory when WMI is used

Error Description:

When scanning Windows endpoints, Inventory reports an incorrect user name in the `PC_SYS_PARAMS` table, when the user is a string containing more than one "\".

APAR IY70916**Abstract:**

Problem with Inventory configuration GUI

Error Description:

The Inventory Configuration GUI cannot be opened through a putty or SSH session.

APAR IY70951**Abstract:**

Processor model not detected on Linux and reported as unknown

Error Description:

The processor model "Intel(R) Pentium(R) 4 CPU 3.20GHz" cannot be detected on Linux and is reported as unknown.

APAR IY71000**Abstract:**

Processor speed of Pentium III

Error Description:

Inventory reports as CurrentClockSpeed the value computed by the legacy algorithm when SMBIOS is unavailable and WMI is available, instead of reporting the value provided by WMI.

APAR IY71001**Abstract:**

Wrong processor speed

Error Description:

Inventory uses the legacy code for retrieving all the CPU information, if the WMI attribute ProcessorID is empty. It should use the legacy code only for the information which is not provided by WMI.

APAR IY71015**Abstract:**

Inventory is issuing a wrong commit command

Error Description:

Inventory requires commit to the database after processing one thousand lines, while the commit should be performed after processing one hundred lines.

APAR IY71336**Abstract:**

Problem with processor model NC600 HP

Error Description:

The processor model NC600 HP is reported as unknown. This problem occurs with Windows XP endpoints.

APAR IY71807**Abstract:**

fs_total_size and fs_free_size reported as 0

Error Description:

Both the fs_total_size and the fs_free_size are reported as zero in the Partition Table. This problem occurs with Windows 2003.

APAR IY72224**Abstract:**

The wscanner commands stops while scanning nfs mounts (partition group)

Error Description:

When parsing the mnttab file, the lines containing the ignore type are wrongly considered as a valid partition entry. This condition causes the command to stop.

APAR IY72269**Abstract:**

After applying fix pack 4.2-INV-FP05, the IP addresses are lost

Error Description:

The scanner cannot correctly interpret arrays of IP addresses and subnet masks.

APAR IY72790

Abstract:

Cannot perform a disconnected scan because the libguid60.dll is missing

Error Description:

When trying to perform a disconnected scan, a pop-up message is displayed to indicate that the libguid60.dll is missing.

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

Table 5. Scalable Collection Service APARs included in this fix pack

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

The following section describes each APAR in detail:

APAR IY66400

Abstract:

Data Handler input thread remains forever pending

Error Description:

Data Handler input thread remains forever pending if a network failure occurs while a downstream collector is sending data.

APAR IY69816

Abstract:

Collector is unable to handle data from downstream collectors

Error Description:

After creating the tmersrvd account on a HP-UX collector following the requirement specified in the Framework defect 136410, the collector is unable to handle any more data from downstream collectors or endpoints due to a permission issue.

APAR IY70039

Abstract:

`wcollect -n` parameter implementation for gateway collector

Error Description:

Cannot configure the INPUT_QUEUE_THRESHOLD parameter for the WAN entry point collector, but only for a data handler object. In a scenario with interconnected Tivoli regions, you need to configure the INPUT_QUEUE_THRESHOLD also for the WAN entry point collector.

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

Table 6. Software Distribution APARs and defects included in this fix pack

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-FP01				
50612	53158	53237	53601	54732
55053				

Table 6. Software Distribution APARs and defects included in this fix pack (continued)

IY62538	IY64478	IY64629	IY65524	IY66475
IY67292	IY67569	IY68170	IY68396	IY68180
IY68626	IY69109	IY69196	IY70587	IY70596
IY70844	IY71401	IY71443	IY71461	IY71795
IY72216	IY72454	IY71403		
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-FP01				
53439				
IY64483	IY64706	IY65274	IY65596	IY66578
IY66652	IY66698	IY67113	IY67173	IY67996
IY68051	IY68282	IY68290	IY68380	IY68411
IY68587	IY68700	IY68864	IY69280	IY69401
IY70198	IY70206	IY70495	IY70505	IY71010
IY71192	IY71983	IY71991	IY72698	IY72786
Software Package Editor, Version 4.2.2, 4.2.2-SWDJPS-FP01				
53526	IY67722	IY67890	IY68161	IY68433
IY72632				
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-FP01				
IY67416	IY67572	IY72490	IY73227	

The following section describes each defect and APAR in detail.

Defect 50612

Abstract:

Performance problems when CMBD is enabled

Error Description:

Performing distributions when CMDDB is enabled requires at least two queries to be performed on each target which result in performance problems.

Defect 53158

Abstract:

CM 4.2.1- FP02: a problem is encountered when uninstalling an InstallShield software package on Windows XP

Error Description:

Uninstalling an InstallShield software package on Windows XP endpoints does not uninstall the Tivoli Desktop.

Defect 53439

Abstract:

The **Descend** check box does not work on an AS/400 library

Error Description:

Software Package Editor for AS/400: selecting the **Descend** check box on an AS/400 library causes the software package to fail while building.

Defect 53526**Abstract:**

CM421F2P1 - Software Package Editor for OS/400® cannot open package

Error Description:

Cannot open software packages created with the Software Package Editor for OS/400 on Windows 2000 endpoints.

APAR IY62538**Abstract:**

An import from an endpoint fails, and displays the error message FRWSL0024E.

Error Description:

Using Software Distribution, Version 4.2.1 GUI, the Software Distribution import operation from an endpoint fails if both build and overwrite options are selected. The following error message is displayed:

```
Import failed:
FRWSL0024E A failure was detected by the oserv daemon :
FRW0G0003E general failure
- The SoftwarePackage profile icon remained open (empty profile)
- when the .spb is ftp'd to MN Source Host and imported from
  the ManagedNode locally, the import succeeds as well as
  distributes successfully.
```

The spd_eng trace shows that communications with the endpoint were broken while the source host was trying to receive the file from the endpoint (Software Distribution *spde*.trc* file), as follows:

```
- get_file invoke error msg - 'FRWTC00056/10/2004 2:25:06 PM (5) :
iom_end; failed with code 67' : communication failure '
```

APAR IY64478**Abstract:**

The SD_H_INST table is updated even when the historical database feature and CMSTATUS are disabled.

Error Description:

If the local endpoint catalog, epsp.cat contains IC-D- CM status, the SD_H_INST table is updated even when the historical database feature and CMSTATUS are disabled.

APAR IY64483**Abstract:**

Commit actions are not run after a reboot performed by the user.

Error Description:

Commit actions are not run after a reboot performed by the user.

APAR IY64629**Abstract:**

Error messages returned are too long to be displayed.

Error Description:

Truncated error messages are displayed for MDist 2 distributions.

APAR IY64706**Abstract:**

The Software Package Editor cannot manage Windows registry keys named Default

Error Description:

Importing a software package containing Windows registry keys named Default, changes the registry key name.

APAR IY65274**Abstract:**

A problem occurs while installing an MSI software package using a batch file

Error Description:

The MSI package requires two .mst files and fails when the user is logged in without the full Administration permissions. If the user has full permissions, the installation succeeds.

APAR IY65524**Abstract:**

Software Distribution force-like option required to address targets with several entries in COMPUTER_SYS_ID column in the COMPUTER table

Error Description:

If at least one target for a distribution is not valid for the Inventory database, the force option cannot be used. No distribution can be submitted against these targets until the data in Inventory database is made consistent. With this APAR, a force-like option has been introduced to ignore incorrect Inventory targets. If a distribution to 50 targets with the force option is submitted, and there are two targets with duplicate entries in the Inventory database, the distribution is submitted to the remaining 48 targets.

Additional Info:

A new configuration variable IGNORE_BAD_INVENTORY_TARGETS is added. If this variable is set to **true** the behavior described above is applied. The default value is **false**. To set this variable to **true**, run the following command from the Tivoli server:

```
wswdcfg -s ignore_bad_inventory_targets=yes
```

APAR IY65596**Abstract:**

Corruption of endpoint catalog (epsp.cat) file.

Error Description:

If for any reason the local catalog becomes corrupt on the endpoint there is no way to distribute software packages to that target. The only workaround is to manually remove the corrupt files from the work directory.

APAR IY66475

Abstract:

The **winstsp** command does not work with **enable_disconnect** parameter. The code can be saved locally to a depot when the disconnected mobile option is not selected.

Error Description:

The **winstsp** command saves the **enable_disconnect** distribution option only if it is set to TRUE (**enable_disconnect=y**).

APAR IY66578**Abstract:**

Table SD_INST is inconsistently updated

Error Description:

After a datamoving operation, the **epsp.bak** file is removed by the **get_sync_action** method. The next operation performed on the endpoint forces a complete resynchronization of the entire endpoint catalog.

APAR IY66652**Abstract:**

ITCM 4.2.1 FP02: disconnected install actions across two reboots fail

Error Description:

Resinit.exe does not correctly manage the offset and always starts with 0, causing the failure. The product works correctly after the offset is initialized to the correct value.

APAR IY66698**Abstract:**

Installing a software package including multiple **execute_program** and **reboot** actions in transactional in-a-reboot mode, causes the log file to be incomplete

Error Description:

Log files on the server side are not completely updated for packages containing several restart actions when they are installed in transactional-automatic commit-manual reboot mode. Only operations performed after the last restart are included in the log file.

APAR IY67113**Abstract:**

The undo operation fails because a corequisite file is not copied in the active area

Error Description:

In a software package running a user program during the undo operation with **Transactional=Y** and with a corequisite file, the corequisite file is not copied from the service area to the active area and the undo operation fails. Another problem is encountered: if the package contains an **execute_user_program** during **commit**, the user program is not performed during "**wundosp -ty -cn**", but it is performed during "**wremovsp -ty -cn**".

APAR IY67173**Abstract:**

Failure when distributing a software package adding an object into an OS400 library.

Error Description:

Create a software package using the Software Package Editor for OS400. This software package adds an object into an OS400 Library with a name on the destination different from the name on the source. After distributing the software package, the object is stored in the OS400 Library with the name it had on the source machine instead of the name set for the destination.

APAR IY67292**Abstract:**

Tivoli roles are different for **wsetsnsp** command line and GUI functions.

Error Description:

The command **wsetsnsp** requires **admin**, **senior**, or **super** Tivoli roles in the policy region where the package resides. Using the GUI, adding or removing a nested software package requires the **user** Tivoli role.

APAR IY67416**Abstract:**

Need an option to change the Autopack way of handling of registry keys

Error Description:

For new registry keys, the Autopack technology produces software packages specifying position="end" in the win_registry_key stanza, without the user being allowed to select the default position. The new DefaultPosition key is introduced in the autopack.ini file. If this key is present, its value (begin, end, position) indicates the default position, otherwise the default value is **end**.

APAR IY67569**Abstract:**

SWD 4.2.1 FP02: an error is returned when the Inventory integration is enabled.

Error Description:

The information about the software package inventory signature to be mapped is not correctly handled. This generates two different problems:

- The Inventory integration scenario does not work properly because information is not updated in the Inventory database.
- swdmgr code allocates an increasing amount of memory and it could cause serious errors on AIX workstations when the maximum memory size configured is reached.

APAR IY67572**Abstract:**

SWD 4.2.1 FP01: the **wdbldspb** command returns an error on OS400 workstations.

Error Description:

The **wdcrtsp** command creates an incorrect software package for AS/400 workstations: the source and destination libraries are missing in the OS400_object section. Trying to build such a software package returns the system error CFP3C81.

APAR IY67722

Abstract:

ITCM 4.2.1 FP02: editing a corequisite file using the Software Package Editor inserts an incorrect filename in the source file name field.

Error Description:

When editing an existing corequisite file with the Software Package Editor and using the browse function to browse the file, the **Name** field is updated, but the **Path** field is not. When first creating the corequisite file, using the browse function causes all fields to be populated with the correct source information; however, when editing, only a partial update occurs, requiring manual information entry.

APAR IY67890**Abstract:**

INSTALLDIR is not a drop-down option in the properties tab

Error Description:

INSTALLDIR is not a drop-down option in the properties tab in the SPE, but it seems to be added to the SPD when manually typed in with a value.

Additional Info:

In the properties panel of the Install MSI product and patch of the SPEditor, the INSTALLDIR properties have been added to the combo box. Destination folder was left on the Wizard, export and import, only for backward compatibility.

APAR IY67996**Abstract:**

Installation of a software package containing per-user actions fails when the wdusrprf.exe key is not present on the target. The operation is registered as successful in the Software Distribution log.

Error Description:

If the wdusrprf.exe key is deleted from the registry, a distribution containing per-user actions is unsuccessful but the operation is registered as successful in the Software Distribution log.

APAR IY68051**Abstract:**

ITCM 4.2.1 FP02: the **wdinstsp** command fails on Netware 5.1 endpoint.

Error Description:

Customer reports that the **wdinstsp** command fails on Netware 5.1 endpoints if long file names are present in the package. With this fix, LongNameSupport is enabled.

APAR IY68161**Abstract:**

The Software Package Editor Solaris native package does not detect or display package attributes in the Package Instances tab.

Error Description:

Package attributes are not correctly managed in the Solaris native package. Moreover, non-root users that use the Software Package Editor wizard to create a Solaris native package find that package properties are automatically filled in.

APAR IY68170

Abstract:

Retrieving a single file does not create a directory on the target

Error Description:

When retrieving a single file using the **wspmvdata** command, the directory on the target is not created. When retrieving multiple files using the **wspmvdata** command with the asterisk (*) character, the directory is created on the target. The problem occurs when retrieving data from Windows to UNIX operating systems.

APAR IY68626

Abstract:

If a post script is not specified and the flag `FailOnPostScript` is set, the plan goes into Failed status

Error Description:

Submitting a plan containing a data moving operation, a post script specified at Endpoint level, and the flag `FailOnPostScript` set to TRUE, you get these results:

- MDist 2 returns successful
- APM returns failed
- `DataMovingRequests.1.log` displays the following:
DISSE0198I User program exit code: 0

APAR IY68282

Abstract:

If undo is made on an undoable software package, Windows shell folders are not removed

Error Description:

If an undo operation is performed on the undoable software package, the Windows shell folder is not removed. The remove operation is performed without any errors or warnings, but the folder remains on the desktop.

APAR IY68290

Abstract:

After distributing a file to UNIX endpoints, the undo operation does not restore the original owner of the file.

Error Description:

The undo operation for a filesystem operation does not reset the original UID. With this fix, the original UID is correctly restored after an undo operation.

APAR IY68380

Abstract:

Problem with text file and command line objects

Error Description:

When creating an **Add a command line** object, and selecting the position **Before last match**, in the workspace of the Software Package Editor the position is displayed as **After first matches**. When installing the Software Package Editor for Endpoints created with the endpoint, the line is not added correctly.

APAR IY68396

Abstract:

Discrepancy between CM_STATUS_QUERY and SWDISTDATA_QUERY results.

Error Description:

A package being installed on an endpoint fails and exits with return code 1. The SD_INST and SD_H_INST tables contain an entry with IC--E. If you submit the package again with the force option and the endpoint is not available, the distribution status is UNAVAILABLE or INTERRUPTED and during this time interval the status of the package is IC--C. When the distribution expires or is cancelled, the gateway returns the error to Software Distribution. Software Distribution does not receive any report from the endpoint, therefore should only modify the final C in the package status. The final result, on the contrary, is that also if the second distribution never reaches the endpoint, the final status in the SD_INST table is IC---, while in the SD_H_INST table it is still IC--E for the first distribution.

APAR IY68411

Abstract:

Installation transactional=yes with autocommit at reboot fails if the retry_ep_cutoff timeout has been reached.

Error Description:

The current status of all active distributions at the endpoint side is stored in the status hash table. Each status is deleted from the list after the distribution has completed. This mechanism works correctly for paused distribution, but if the original distribution is in **restart pending** state, it is considered complete and removed from the list.

APAR IY68433

Abstract:

The DISSP6039W error is returned when opening a software packages in spd format using the Software Package Editor on a Windows endpoint.

Error Description:

The Software Package Editor does not open software packages in .spd format containing the instructions for adding a Windows shell folder.

APAR IY68587

Abstract:

A problem is encountered with disconnected Software Distribution installations.

Error Description:

Cannot add registry entries using the disconnected command line.

APAR IY68700

Abstract:

Software Distribution does not correctly manage an RPM package installation

Error Description:

An RPM Package is installed, but when you force another installation you receive the following error:

STANDARD ERROR (program: /bin/rpm - exit code = 1)
rpm: only installation, upgrading, rmsource and rmspec may be
forced

APAR IY68864

Abstract:

Problem with a software package that performs a user program action with exit code set to Warning.

Error Description:

In a disconnected environment, the commit operation is not correctly performed when transactional installation completes with a warning.

APAR IY69280

Abstract:

Installing a software package containing an execute_user_program does not correctly resolve the operation_phase variable.

Error Description:

If the commit operation is performed in undoable-in-transactional cycle, the operation_phase is not reset to commit after performing the backup.

APAR IY69109

Abstract:

Provide fix for APARs IY51149, IY54176, and IY62012 for the migration script to all database vendors

Error Description:

APARs IY51149 and IY62012 solved the problem only for the DB2 vendor but a fix is required also for all supported vendors. For this APAR, the customer found the problem with Oracle. The fix addresses INFORMIX, SYBASE, SQL, and ORACLE databases.

APAR IY69196

Abstract:

The Plans_db2_mvms_migr_42_422.sql script fails with the following error: dsnt408i sqlcode = -670 record length of table exceeds page size limit.

Error Description:

The row length of the table is completely occupied by a record and the table cannot be altered to add any additional columns.

APAR IY69208

Abstract:

Installing a software package containing an execute_user_program action does not correctly resolve the operation_phase variable.

Error Description:

If the commit operation is performed in an undoable-in-transactional cycle the operation_phase is not reset to commit after performing the backup. With this fix, if the backup is performed successfully the operation_phase is correctly set to commit state.

APAR IY69401

Abstract:

An error is returned when installing an AIX software package if the install directory and images do not exist on the endpoint.

Error Description:

If the product images are included in the package (bundle installation) and they are not located on a remote server, the file set cannot be loaded until the bundle is made available.

APAR IY70198**Abstract:**

The reexecute operation during the commit phase is not working.

Error Description:

The reexecute operation during the commit phase does not work when the exit code for success_reboot_now_reexecute is specified.

APAR IY70206**Abstract:**

The mandatory_date feature of user notification does not work if the **mobile** parameter is set to **hidden**.

Error Description:

The **mandatory_date** feature of the user notification option works only if the **mobile** parameter is set to **Optional** or **Mandatory**. If the distribution is **Hidden** from mobile consoles, the **mandatory_date** feature is ignored.

APAR IY70495**Abstract:**

Preexisting software packages can no longer be distributed after upgrading from 40 to 421.

Error Description:

After upgrading to Software Distribution 4.1, the customer can no longer distribute software packages created with the previous version.

APAR IY70505**Abstract:**

Distributing software packages from a Windows Tivoli region to a UNIX endpoint

Error Description:

Distributing a Software Package Editor for endpoints built on a Windows machine to a UNIX system, the target directory permissions are changed from 755 to 000.

APAR IY70587**Abstract:**

Inconsistent behavior is encountered when working with activity plans.

Error Description:

If some targets have the software already installed, they are given a status of SUCCESS, so the next activity in the plan starts. If all the targets have the software installed, all the targets get a status of FAILED and the next activity is CANCELED_BY_CONDITION.

APAR IY70596

Abstract:

An error is encountered when performing a commit operation on Linux Red Hat ES 3.0.

Error Description:

On a Linux Red Hat ES 3.0 platform, when committing a transactional software package using the **Commit and Close** button, the following oserv error is received:

FRWSL0024E A failure was detected by the oserv daemon.

APAR IY70844

Abstract:

When installing a 422 managed node and adding it to an upgraded server, the revision level is still 42

Error Description:

In some upgrade scenarios, the revision level for Software Distribution is not updated correctly.

APAR IY71010

Abstract:

The transactional remove of a software package with a transactional execute user program at remove time fails if run a second time

Error Description:

Install, commit, and then remove a software package defined as transactional and having a transactional remove script. If the remove operation fails for any reason, any subsequent remove operations fail as well and an error message is logged in the Software Distribution log.

APAR IY71192

Abstract:

Software Distribution target log files show commit phase actions

Error Description:

Software Distribution 4.2 with Fix Pack 4, when performing a transactional installation of a software package, commit in-a-reboot, during the installation the log file on the target shows the actions that will occur during the commit phase before the commit occurs.

APAR IY71401

Abstract:

Problem with **MAX_NUM_TRANSACTIONS** and **REPORT_TRANSACTION_TIMEOUT** parameters

Error Description:

The parameters **MAX_NUM_TRANSACTIONS** and **REPORT_TRANSACTION_TIMEOUT** cannot be applied by the Software Distribution Manager at reporting time.

APAR IY71403

Abstract:

Improve the performance of wspmvdata

Error Description:

The run time of the command `wspmvdata` needs to be improved.

APAR IY71443**Abstract:**

`winstsp -l force_mandatory=n` does not work

Error Description:

The installation is automatically started when the mandatory date is reached.

APAR IY71461**Abstract:**

SD_INST table not updated with correct EXEC_TIME value

Error Description:

When the software packages are uploaded to the SD_INST table during the time frame when `is_cmstatus_enabled=false`, the EXEC_TIME of the software packages is wrong. It should be the actual installation time, not the time of the update to the SD_INST table.

APAR IY71795**Abstract:**

Software Distribution data moving retrieve from endpoints - tpost script rerun

Error Description:

When `oserv` is restarted while the tpost script is running on one of the endpoints, the tpost script is run twice on the next endpoint. This should not occur.

APAR IY71983**Abstract:**

`spd_eng` does not set the correct value for environment variable USERPROFILE.

Error Description:

On Windows endpoints, `spd_eng` does not set the correct value for the environment variable USERPROFILE before starting the user program.

APAR IY71991**Abstract:**

Configuration Manager does not correctly manage variables set to blank in the `sdist.nfo` and `swdis.var` files.

Error Description:

Configuration Manager does not correctly manage variables with value set to blank in the `sdist.nfo` or `swdis.var` files.

APAR IY72216**Abstract:**

Enabling the software dependency check causes `spo_core` to increase the memory size.

Error Description:

When running a Software Distribution install operation with the dependency check enabled, spo_core memory size keeps growing due to a memory leak.

APAR IY72454**Abstract:**

Data moving send or retrieve operations on Windows source hosts fail to remove a subdirectory.

Error Description:

Data moving send or retrieve operations on Windows source hosts fail to remove a subdirectory in the \$DBDIR.

APAR IY72490**Abstract:**

The customer requires a method for recovering information from a corrupted endpoint catalog (epsp.cat file)

Error Description:

If the epsp.cat file becomes corrupt, all information on software packages on the endpoint is lost. With this defect, the new **-b catalog_backup_file** option has been added to the **wdlssp** command. This option creates a backup copy of the catalog to the file you specified. The information stored in the epsp.cat file is retrieved up to the point where the corruption occurred. Some data in the new file might be inconsistent if the command failed to retrieve complete data from the corrupt catalog. You can then manually replace the catalog with the new file.

APAR IY72632**Abstract:**

Software Package Editor: You can only insert 16 characters in the **Package Version** field in the **General** tab of the **Package Properties** panel

Error Description:

The input field should allow the user to type 64 characters.

APAR IY72698**Abstract:**

ITCM 4.2.1 - FP02: corequisite files are not removed from the Software Distribution service folder after performing a commit operation

Error Description:

Corequisite files are not removed from the Software Distribution service folder after performing a commit operation

APAR IY72786**Abstract:**

Failed container conditions are logged twice in software package log if the software package includes a restart/reboot action

Error Description:

A software package with multiple containers with conditions, ending with a restart, is distributed to an endpoint. Upon the reboot of the endpoint, the software package log on the Tivoli server shows that the failed conditions in the software package were evaluated twice.

APAR IY73227

Abstract:

After installing the 4.2.2-SWD-0001 interim fix on a Windows workstation where the Software Package Editor for Endpoints, Version 4.2.2 is installed, the Software Package Editor for Endpoints does not start.

Error Description:

After installing the 4.2.2-SWD-0001 interim fix on a Windows workstation where the Software Package Editor for Endpoints, Version 4.2.2 is installed, the Software Package Editor for Endpoints does not start.

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

Table 7. Activity Planner APARs and internal defects included in this fix pack

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

The following section describes each defect and APAR in detail:

Defect 53632

Abstract:

The cancel recovery operation does not work correctly

Error Description:

The cancel recovery operation does not work correctly

APAR IY64606

Abstract:

Enable multicast setting lost when saving and reopening an activity plan.

Error Description:

When you create a plan in the Activity Plan Editor to load a package to a repeater depot and select the **Enable multicast** check box, this selection is lost if you save the plan and open it again.

APAR IY66021

Abstract:

Activity Planner hangs on preview and submission of a plan with targets specified in a file which the Tivoli administrator is not authorized to access.

Error Description:

If the Tivoli administrator submitting or previewing the plan does not have the same rights as the user who created the file containing the list of targets, Activity Planner hangs.

APAR IY66713

Abstract:

Activity Planner does not start if plans contain targets specified with different methods, for example using a file containing the target names and a list of target names.

Error Description:

Activity Planner does not start if plans contain targets specified with different methods, for example using a file containing the target names and a list of target names.

APAR IY68138**Abstract:**

Error encountered with 4.2.2 Fix Pack 2 when modifying distribution deadline in activity

Error Description:

The distribution deadline in the Activity Planner 4.2.2 Fix Pack cannot be modified from a **Relative** setting to a **Default** or **Absolute** setting. This problem occurs while using the Activity Plan Editor endpoint client updated with Fix Pack 2.

APAR IY68180**Abstract:**

Provide an option for data moving to specify the path where the file is saved on the destination system.

Error Description:

Files moved using data moving are saved to a default directory. The option introduced with this APAR specifies the path where the file is saved on the destination system. In the command line, the new **-G** option has been added to the **wspmvddata** command, while in the Activity Planner and Software Distribution GUI, the new **Modify Destination Path** check box has been added.

APAR IY69394**Abstract:**

Incomplete description of the Preview button in the Activity Plan Editor help.

Error Description:

The description of the Preview button in the Activity Plan Editor help is incomplete.

APAR IY70368**Abstract:**

Activity Planner 4.2.2 does not allow you to cancel an activity plan in Starting state.

Error Description:

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

APAR IY71064

Abstract:

Restart of plan does not work

Error Description:

The restart of the plan does not work if an intermediate activity has been completed in successful state.

APAR IY71340**Abstract:**

START_NOT_BEFORE option incorrectly resolved

Error Description:

If a plan is submitted from an endpoint with an Activity Planner monitor between 12 and 13 p.m. the start_not_before option is incorrectly resolved.

APAR IY71810**Abstract:**

No exception is returned by Activity Planner if the admin user is not configured.

Error Description:

Activity Planner requires swd_admin to be properly configured to read files containing a list of targets. If swd_admin is not assigned the required role, Activity Planner cannot read the file, but no exception is reported in the Activity Planner traces at submission time.

APAR IY71812**Abstract:**

Filtering Activity Planner monitor option not working

Error Description:

The filtering option does not work properly and does not show the requested results.

APAR IY71963**Abstract:**

Activity Plan Monitor exceeds the maximum size for the transactional log file on Sybase.

Error Description:

Several Activity Plan Monitor GUIs with Automatic Update Refresh enabled cause the Sybase transaction log file to exceed the maximum size after a few hours.

Change Manager: The following APAR and internal defects for Change Manager were fixed.

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

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

The following section describes each APAR in detail.

APAR IY65948

Abstract:

The idlcall does not work with Change Manager 421.

Error Description:

The idlcall for synchronizing targets does not work with Change Manager 421.

APAR IY66712**Abstract:**

The **wimprmod -o** command does not work with Configuration Manager 421 with fix pack 2 installed.

Error Description:

If you try to delete a reference model after importing it using the force option, the reference model is not deleted. This can be verified by running the **wlstrmod** command to list the reference model: the reference model is not deleted. In the database, all the elements in the reference model are duplicated with different IDs.

APAR IY68427**Abstract:**

A Java™ exception is encountered when previewing a reference model if no state is specified.

Error Description:

If the value of the STATUS column of the SD_INST table is blank, Change Manager does not perform the Preview and Submit function correctly and returns an exception. To make the fix effective, run the following command to upgrade the Change Manager plug-in after installing 4.2.1-SWDSRV-F2P2:

```
wccmplugin -s SoftwareDistribution -f $BINDIR/TME/CCM/GUI/swd_plugin.xml
```

Running this command requires the CCM_Admin Tivoli authorization role. If the Activity Planner is running, stop it using the **wstopapm** command.

Tivoli Resource Manager: The following APARs and internal defects for Tivoli Resource Manager were fixed:

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

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

Defect 52136**Abstract:**

Installing the same software package for Palm or WinCE devices twice does not require the force option

Error Description:

No check is performed for software packages for Palm or WinCE devices to verify whether the package was previously installed.

Defect 52488**Abstract:**

Cannot manage devices and Web user interface using one Tivoli Web Gateway server

Error Description:

The WebSeal server requires two different instances, while, during the Tivoli Web Gateway installation, you can specify only one parameter for each of the following variables: WEBSEAL_PROTOCOL WEBSEAL_PORT and the instance server name in the WEBSEAL_MOUNT_POINT. Therefore, the Tivoli Web Gateway server cannot point to both WebSeal instances at the same time.

Defect 53058**Abstract:**

Inventory report for Nokia 9500 device base configuration should only contain base configuration data

Error Description:

When performing the base configuration on a Nokia 9500 device, the complete Inventory report is sent to the Tivoli server. The Inventory report should send only the tables affected by the operation.

Defect 53688**Abstract:**

Result streams no longer managed by MCollect

Error Description:

MCollect cannot open the stream result files created in the Tivoli Web Gateway result directory. As a consequence, no result are returned to the Tivoli server.

Defect 53711 and 53875**Abstract:**

Unsolicited update of several devices results in failure

Error Description:

The following error message is returned: INVDH0026E The Inventory status collector returned a status for scan ID 0 which is not valid on target *target_name*. The Inventory tables are not updated as expected.

APAR IY71394**Abstract:**

Inventory is not working with PDAs

Error Description:

Inventory profiles are correctly distributed to PDAs, but no report is returned to the Tivoli server, due to an error during the conversion to the Inventory .dat format.

Web Interface: The following APARs and internal defects for the Web Interface were fixed.

Table 10. Web Interface APARs and internal defects included in this fix pack.

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

The following section describes each defect and APAR in detail:

Defect 53432

Abstract:

Error message ORA-00904 encountered when running Oracle scripts for Inventory 4.2.2 on Nokia devices

Error Description:

When running the Oracle scripts to upgrade the Inventory repository from 4.2.1 to 4.2.2 (inv_ora_upgrade_421_422.sql), the ORA-00904 error message (invalid identifier) occurs due to the use of the Oracle reserved word "UID" as a column name (that is in the "CREATE TABLE MO_EMAIL" statement). The same failure also occurs when running the Oracle scripts for the Inventory 4.2.2 fresh installation.

APAR IY70235

Abstract:

Garbled characters are returned when scanning Japanese endpoints using the Web Interface

Error Description:

When performing a scan on Japanese endpoints using the Web Interface, some Japanese characters are garbled in the Inventory database.

APAR IY70838

Abstract:

Trace always created even if trace enabled set to false

Error Description:

The traces are always written. There is no way to disable the trace.

Directory Query: The Directory Query Facility, Version 4.2.2 component does not currently contain any fixed APARs.

Pristine Manager and Pristine Manager Gateway: The following APARs and internal defects for the Pristine Manager, Version 4.2.2 and the Pristine Manager Gateway, Version 4.2.2 components were fixed:

Table 11. Pristine Manager and Pristine Manager Gateway APARs and internal defects included in this fix pack

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

The following section describes each APAR in detail.

APAR IY71465

Abstract:

Configuration Manager 4.2.2/ Pristine Manager: cannot create the operating system element

Error Description:

The OSELEMENT table contains a column named LABEL, which is a reserved word. To use it as a column name, it must be included in quotes. The same problem occurs when creating a machine element.

Fixes contained in previous interim fixes

The following APARs and defects were shipped in the 4.2.2-SWD-0001 interim fix:

Table 12. Fixes contained in previous interim fixes

Software Distribution, Version 4.2.2, 4.2.2-SWDSRV-0001		
53145	IY63953	IY65973
IY67238	IY68130	IY68180
IY68271		
Software Distribution Gateway, Version 4.2.2, 4.2.2-SWDGW-0001		
IY64746	IY66754	IY66786
Software Package Editor for Endpoints, Version 4.2.2, 4.2.2-SWDEP-0001		
IY64746	IY66754	IY66786
Activity Planner , Version 4.2.2, 4.2.2-APM-0001		
53904	54567	IY65552
IY65622	IY67421	IY67427
IY67715	IY68048	IY68180
IY68241	IY70368	

Installation

This section describes how to install fix pack 1 to upgrade the various components of IBM Tivoli Configuration Manager, Version 4.2.2. The method of installation depends on the component you are upgrading. Once you have installed the fix pack, you cannot uninstall it automatically. Ensure that you perform a complete backup of your system before installing this fix pack.

This section includes the following topics:

- “Hardware and software requirements”
- “Traditional fix pack installation methods” on page 48
- “Software package block (SPB) fix pack installation for GUI components” on page 51
- “Updating the Inventory schema” on page 54

Hardware and software requirements

This section includes the following topics:

- “Supported platforms” on page 48
- “System requirements” on page 48

Supported platforms

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

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

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

System requirements

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

Traditional fix pack installation methods

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

- “Installing fix packs using ISMP”
The InstallShield MultiPlatform (ISMP) program, which installs the appropriate IBM Tivoli Configuration Manager fix pack for the entire Tivoli management region (Tivoli region).
- “Installing fix packs using the Tivoli desktop” on page 49
A graphical user interface that you use to select the fix pack to install and the target workstations on which to install them.
- “Installing fix packs using the CLI” on page 50
Tivoli Management Framework command that you use to specify the fix pack to install and the target workstations on which to install them from the command line interface.
- “Installing fix packs using SIS” on page 51
The SIS console or SIS commands you use to specify the fix pack to install and on which target workstations to install them.

Installing fix packs using ISMP

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

The ISMP tool provides a depoting mechanism with which you can plan the upgrade of the entire Tivoli region by creating activity plans that can be scheduled at a later date.

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

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

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

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

1. Locate the setup executable and run the following command in the root directory of IBM Tivoli Configuration Manager 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 fix pack directory, `$fixpack/xml`. Click **Next**.
4. The actions necessary to upgrade your environment are being generated. When the process completes, a panel displays the fix pack 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 you want to run. Change the status of steps you do not want to run immediately to Held.
7. Click **Run All** to run all steps whose status is Ready or click **Run Next** to run steps individually.

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

Installing fix packs using the Tivoli desktop

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

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

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

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

Installing fix packs using the CLI

When upgrading products using the **wpatch** command, specify the name of the index file using the file shown in Table 13. When using the **wpatch** command to upgrade a product, you specify the following information on the command line:

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

Example:

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

where:

-c CD-ROM/images

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

-i index file

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

managed node

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

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

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

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

Table 13. IND files for components

IND file	Component name	Tag
422INVFP	Inventory, Version 4.2.2	4.2.2-INV-FP01
422LCFFP	Inventory Gateway, Version 4.2.2	4.2.2-INVGW-FP01
422CLLFP	Scalable Collection Service, Version 4.2.2	4.2.2-CLL-FP01
APMFP1	Activity Planner, Version 4.2.2	4.2.2-APM-FP01
CCMFP1	Change Manager, Version 4.2.2	4.2.2-CCM-FP01
TRMFP1	Resource Manager, Version 4.2.2	4.2.2-TRMSRV-FP01
TRMGWFP1	Resource Manager Gateway, Version 4.2.2	4.2.2-TRMGW-FP01
SWDFP1	Software Distribution, Version 4.2.2	4.2.2-SWDSRV-FP01
SWDGWFP1	Software Distribution Gateway, Version 4.2.2	4.2.2-SWDGW-FP01
SDJFP1	Software Package Editor, Version 4.2.2	4.2.2-SWDJPS-FP01
WEBUIFP1	Web Interface, Version 4.2.2	4.2.2-WEB-FP01
PMFP1	Pristine Manager 4.2.2	4.2.2-PMSRV-FP01
PMGWFP1	Pristine Manager Gateway 4.2.2	4.2.2-PMGW-FP01

Installing fix packs using SIS

When installing fix packs using Tivoli Software Installation Service, select the fix packs to be installed using the component name shown in Table 13 on page 50.

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 53
- “Software Distribution server command” on page 53
- “Software Distribution disconnected command” on page 54

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

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

The default variables for each component defined in the SPB fix packs are listed in Table 14.

Table 14. Default variables defined in SPB fix packs

Variable	Value	Description
Tivoli_APM_GUI_Fix.v4.2.2.FP01		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.

Table 14. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
Tivoli_CCM_GUI_Fix.v4.2.2.FP01		
DSWIN_DIR	\$(program_files)\Tivoli\Desktop	The directory where the Tivoli Desktop is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_SWDEP_PC_Fix.v4.2.2.FP01		
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	\$(program_files)\Tivoli\JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_SWDEP_NW_Fix.v4.2.2.FP01		
target_dir	\$(product_dir)\SD422CLI	
Tivoli_SWDEP_OS2_Fix.v4.2.2.FP01		
package_type	ALL	
target_dir	\$(product_dir)\speditor	The directory where the Software Package Editor is installed.
Tivoli_SWDEP_UNIX_Fix.v4.2.2.FP01		
target_dir	\$(product_dir)/speditor	The directory where the Software Package Editor is installed.
TME_JAVATOOLS	/opt/Tivoli/JavaTools	The directory where the JRE 1.3 is installed.
Tivoli_SWDEP_NTAS400_Fix.v4.2.2.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 the JRE 1.3 is installed.
Tivoli_SWDEP_400PS_Fix.v4.2.2.FP01		
Note: This package has to be installed on the AS/400 system to which user wants to connect through Software Package Editor for AS/400.		
package_type	ALL	
target_dir	\$(product_dir)\speditor	
Tivoli_WebUI_Fix.v4.2.2.FP01		
AppServer	/opt/WebSphere/AppServer	Specifies the WebSphere Application Server home directory.
WebSrvDoc	/usr/IBMHttpServer/htdocs/en_US	Specifies the directory for the Web Server documentation.
LCF_LIBDIR	/opt/Tivoli/lcf/lib/aix4-r1	Specifies the LCFLIB directory for the endpoint.
Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP01		
CLUSTER_ENV	false	Specifies whether the cluster Tivoli Web Gateway Server is to be upgraded.
INTERP	aix4-r1	Specifies the INTERP of the Tivoli Web Gateway Server.

Table 14. Default variables defined in SPB fix packs (continued)

Variable	Value	Description
AppServer	/opt/WebSphere/AppServer	Specifies where the WebSphere Application Server home is located.
LCF_DATDIR	/opt/Tivoli/lcf/dat/1	Specifies the LCFDAT directory for the endpoint.
LCFROOT	/opt/Tivoli/lcf	Specifies the LCFROOT directory for the endpoint.
DMS.Destination	/usr/TivTWG	Specifies where the Tivoli Web Gateway is installed.
Hostname	hostname.domain	Specifies the Tivoli Web Gateway hostname.

SPB Patch Installer

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

The following is a summary of the upgrade process using the SPB Patch Installer. Refer to the *SPB Patch Installer Guide* located in the `spb_installer` directory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 1 CD (2 of 2) for complete instructions on using this tool.

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

1. Insert the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 1 CD (2 of 2).
2. Locate and run the setup program located in the `spb_installer` directory.
 - On Windows, run the `setup.exe` file.
 - On all other platforms, run the `setup_platform.bin`.
3. Read the Welcome panel and click **Next**.
4. Specify the `CM422_SPB_FP01.xml` file for the fix pack located in the `/package` subdirectory on the IBM Tivoli Configuration Manager, Version 4.2.2 Fix Pack 1 CD (2 of 2). Click **Next**.
5. Select **Apply** and click **Next**.
6. Specify the components you want to install and click **Next**.
7. Clear the selection of the components for which you do not want to install in undoable mode. Click **Next**.
8. You might be prompted to specify the value of some variables defined in the SPB. Ensure that they are consistent with the existing installation on the workstation to be upgraded.
9. A Summary panel is displayed. Click **Next**.
10. The upgrade process starts.

Software Distribution server command

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

1. Create a new Profile in a Profile Manager, using the naming convention described in Table 15.
2. Import the SPB fix pack provided into the new Profile.
3. Select the endpoints to which you want to distribute the fix pack.
4. Submit the installation using either the command line or the Tivoli desktop.

If you need to overwrite the values of the default variables, use the "-D" option (winstsp -D variable=value GUI_component.spb) from the command line, or the Default Variables panel from the Tivoli desktop.

Software Distribution disconnected command

To use this type of installation, you must have the Software Distribution Software Package Editor component installed on the endpoint. If you need to overwrite the values of the default variables, use the "-D" option (wdinstsp -D variable=value GUI_component.spb) from the command line.

Software package block fix packs

Table 15 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 4.2.2 GA SPBs are a prerequisite of the fix pack SPBs.

Table 15. Names of SPB files and software profiles

SPB Files	Package name with Version
Tivoli_APM_GUI_Fix.v4.2.2.FP01.spb	Tivoli_APM_GUI_Fix.v4.2.2.FP01
Tivoli_CCM_GUI_Fix.v4.2.2.FP01.spb	Tivoli_CCM_GUI_Fix.v4.2.2.FP01
Tivoli_SWDEP_\${interp}_Fix.v4.2.2.FP01.spb	Tivoli_SWDEP_\${interp}_Fix.v4.2.2.FP01
Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP01.spb	Tivoli_SWDEP_NTAS400_Fix.v4.2.2.FP01
Tivoli_SWDEP_400PS_Fix.v4.2.2.FP01.spb	Tivoli_SWDEP_400PS_Fix.v4.2.2.FP01
Tivoli_WebUI_Fix.v4.2.2.FP01.spb	Tivoli_WebUI_Fix.v4.2.2.FP01
Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP01.spb	Tivoli_Web_Gateway_SRV_Fix.v4.2.2.FP01

Updating the Inventory signatures

The latest software signatures are packaged in fix pack 4.2.2-INV-FP01. After you install the fix pack, the signatures are located in the \$BINDIR/./generic/inv/SIGNATURE directory in the SWSIGS.INI file. For more information on how to install these signatures, see the **winvsig** command in the *IBM Tivoli Configuration Manager: User's Guide for Inventory*.

Updating the Inventory schema

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

The fix pack installation stores several files named `inv_db_vendor_schema.sql` and `inv_db_vendor_4.2.2_schema.sql` on the managed nodes where the patch is installed, in the following directory:

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

where:

`db_vendor`

Is the shortname for the database

History scripts are provided for each of the scripts listed above for updating the history tables. The history scripts are named according to the following convention: `h_inv_<db_vendor>_schema.sql`, where:

`db_vendor`

Is the shortname for the database

Running the full schema scripts removes all existing data from the database. To maintain the existing data in the database, run the `inv_db_vendor_422_FP01` scripts.

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

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

Upgrading plug-ins

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

Activity Planner

When you have installed 4.2.2-APM-FP01, Activity Planner scripts are in the `$BINDIR/TME/APM/SCRIPTS` directory. You need the `APM_Admin` Tivoli region authorization role to run these scripts.

1. Run the `upgr_tl_plugin.sh` script.
2. If you have also installed 4.2.2-SWDSRV-FP01, run the `upgr_swd_plugin.sh` script.

Change Manager

If you have installed both 4.2.2-CCM-FP01 and 4.2.2-SWDSRV-FP01, run the `upgr_swd_plugin.sh` script. This script is in the `$BINDIR/TME/CCM/SCRIPTS` directory. You need the `CCM_Admin` Tivoli region authorization role to run it.

Documentation notes

Documentation notes

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

New information contained in this fix pack

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

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

- **APAR IY53753**

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

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

- **APAR IY53218**

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

Cloning software packages from the Tivoli desktop

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

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

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

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

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

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

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

APAR IY65552

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

Error messages are truncated

If error messages are longer than 250 characters, they are truncated.

To solve this problem, add the

```
max_error_info_size
```

keyword in the DEFAULT section of the apm.ini file and enlarge the ERROR_INFO column in the ACT_STATUS_TGT table to the same value defined for the

```
max_error_info_size
```

keyword. The maximum size for this column depends on the database you are using.

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

Defect 53849

In Chapter 8 "Maintaining and troubleshooting a Configuration

Management Environment", section "Verifying an Installation", add the following text at the end of the Activity Planner and Change Manager sections:

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

Defect 53479

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

Note: Before you can install the Japanese language pack, you must uninstall the Japanese language pack for version 4.2.1, if present.

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

• **Defect 51869**

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

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

• **APAR IY66515**

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

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

• **Feature 54613**

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

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

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

Use this option to define a set of software packages for which user login and shutdown operations can be disabled while the distribution is taking place. If you define a package as **first**, this package is the first in a series for which you can define these options. Define the other packages in the series as **middle** and the last package as **last**. A software package defined as **last** must exist for each software package defined as **first**. If the series consists of just one package, define this package as

both, which means the software package is both first and last in the series. The default value is **none** which means user login and shutdown operations cannot be disabled.

-Y max_login_allowed

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

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

- **APAR IY72490:**

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

wdlssp

wdlssp -B.

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

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

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

APAR IY68383

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

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

Documentation problems and corrections contained in this fix pack

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

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

- **APAR IY53753**

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

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

- **APAR IY58534**

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

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

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

- **APAR IY65042**

In Chapter 2, section "Selecting Targets for an Activity", add the following text to the first item in the bulleted list in step 4: A list of target names. Select this type if you define the targets using the \$(TARGET_LIST) variable.

- **APAR IY66346**

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

- RIM_view or RIM_update role, depending on database operation.

as follows:

- RIM_view and RIM_update roles.

In sub-section "Understanding the Activity Planner Environment", Table 1. Activity Planner roles and operations, add the RIM_view and RIM_Update roles in all the cells of the **Required roles** column.

- **APAR IY70370**

In Chapter 2 "Using the Command Line", Table 5 "Subelements that define the activity plan", targets_computation row, add the following information:

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

Planning and Installation Guide: The following information changes apply to the *IBM Tivoli Configuration Manager: Messages and Codes*.

- **APAR IY58932**

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

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

- Windows 2000
- Windows XP
- Windows Server 2003

with the following two paragraphs:

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

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

- **APAR IY68178**

In Chapter 4, section "Upgrading Database Scripts", sub-section "Upgrading From IBM Tivoli Configuration Manager Version 4.2" replace the paragraph that describes how to upgrade to Software Distribution 4.2.2 with the following text: The Software Distribution upgrade from 4.2 to 4.2.2 does not require any upgrade script for the database repository.

- **APAR IY68188**

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

IBM DB2 into:

IBM DB2 Server

- **APAR IY71740**

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

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

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

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

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

APAR IY72012

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

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

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

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

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

- **APAR IY70318**

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

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

Workaround: Change the collate to SQL_Latin1_General_CP1_CI_AS and the primary language of the user owning the Change Manager tables to English.

- **APAR IY71166**

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

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

Workaround: Open Software Package Editor using the Tivoli desktop.

Chapter 2. Support information

If you have a problem with your IBM software, you want to resolve it quickly. This section describes the following options for obtaining support for IBM software products:

- “Searching knowledge bases”
- “Obtaining fixes”
- “Receiving weekly support updates” on page 64
- “Contacting IBM Software Support” on page 65

Searching knowledge bases

You can search the available knowledge bases to determine whether your problem was already encountered and is already documented.

Searching the information center

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

Searching the Internet

If you cannot find an answer to your question in the information center, search the Internet for the latest, most complete information that might help you resolve your problem.

To search multiple Internet resources for your product, use the **Web search** topic in your information center. In the navigation frame, click **Troubleshooting and support ► Searching knowledge bases** and select **Web search**. From this topic, you can search a variety of resources, including the following:

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

Obtaining fixes

A product fix might be available to resolve your problem. To determine what fixes are available for your IBM software product, follow these steps:

1. Go to the IBM Software & download Web page at <http://www.ibm.com/support/us>.
2. Click **Downloads and drivers** in the **Support topics** section.
3. Select the **Software** category.
4. Select a product in the **Sub-category** list.
5. In the **Find downloads and drivers by product** section, select one software category from the **Category** list.

6. Select one product from the **Sub-category** list.
7. Type more search terms in the **Search within results** if you want to refine your search.
8. Click **Search**.
9. From the list of downloads returned by your search, click the name of a fix to read the description of the fix and to optionally download the fix.

For more information about the types of fixes that are available, see the *IBM Software Support Handbook* at <http://techsupport.services.ibm.com/guides/handbook.html>.

Receiving weekly support updates

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

1. Go to the IBM Software Support Web site at <http://www.ibm.com/software/support>.
2. Click **My support** in the upper right corner of the page.
3. If you have already registered for **My support**, sign in and skip to the next step. If you have not registered, click **register now**. Complete the registration form using your e-mail address as your IBM ID and click **Submit**.
4. Click **Edit profile**.
5. In the **Products** list, select **Software**. A second list is displayed.
6. In the second list, select a product segment, for example, **Application servers**. A third list is displayed.
7. In the third list, select a product sub-segment, for example, **Distributed Application & Web Servers**. A list of applicable products is displayed.
8. Select the products for which you want to receive updates, for example, **IBM HTTP Server** and **WebSphere Application Server**.
9. Click **Add products**.
10. After selecting all products that are of interest to you, click **Subscribe to email** on the **Edit profile** tab.
11. Select **Please send these documents by weekly email**.
12. Update your e-mail address as needed.
13. In the **Documents** list, select **Software**.
14. Select the types of documents that you want to receive information about.
15. Click **Update**.

If you experience problems with the **My support** feature, you can obtain help in one of the following ways:

Online

Send an e-mail message to erchelp@ca.ibm.com, describing your problem.

By phone

Call 1-800-IBM-4You (1-800-426-4968).

Contacting IBM Software Support

IBM Software Support provides assistance with product defects.

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

- For IBM distributed software products (including, but not limited to, Tivoli, Lotus, and Rational products, as well as DB2 and WebSphere products that run on Windows, or UNIX operating systems), enroll in Passport Advantage in one of the following ways:

Online

Go to the Passport Advantage Web site at http://www.lotus.com/services/passport.nsf/WebDocs/Passport_Advantage_Home and click **How to Enroll**.

By phone

For the phone number to call in your country, go to the IBM Software Support Web site at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region.

- For customers with Subscription and Support (S & S) contracts, go to the Software Service Request Web site at <http://techsupport.services.ibm.com/ssr/login>.
- For customers with IBMLink, CATIA, Linux, S/390, iSeries, pSeries, zSeries, and other support agreements, go to the IBM Support Line Web site at <http://www.ibm.com/services/us/index.wss/so/its/a1000030/dt006>.
- For IBM eServer software products (including, but not limited to, DB2 and WebSphere products that run in zSeries, pSeries, and iSeries environments), you can purchase a software maintenance agreement by working directly with an IBM sales representative or an IBM Business Partner. For more information about support for eServer software products, go to the IBM Technical Support Advantage Web site at <http://www.ibm.com/servers/eserver/techsupport.html>.

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

To contact IBM Software support, follow these steps:

1. “Determining the business impact”
2. “Describing problems and gathering information” on page 66
3. “Submitting problems” on page 66

Determining the business impact

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

Severity 1

The problem has a *critical* business impact. You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.

Severity 2

The problem has a *significant* business impact. The program is usable, but it is severely limited.

Severity 3

The problem has *some* business impact. The program is usable, but less significant features (not critical to operations) are unavailable.

Severity 4

The problem has *minimal* business impact. The problem causes little impact on operations, or a reasonable circumvention to the problem was implemented.

Describing problems and gathering information

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

- What software versions were you running when the problem occurred?
- Do you have logs, traces, and messages that are related to the problem symptoms? IBM Software Support is likely to ask for this information.
- Can you re-create the problem? If so, what steps were performed to re-create the problem?
- Did you make any changes to the system? For example, did you make changes to the hardware, operating system, networking software, and so on.
- Are you currently using a workaround for the problem? If so, be prepared to explain the workaround when you report the problem.

Submitting problems

You can submit your problem to IBM Software Support in one of two ways:

Online

Click **Submit and track problems** on the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html>. Type your information into the appropriate problem submission form.

By phone

For the phone number to call in your country, go to the contacts page of the *IBM Software Support Handbook* at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region.

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

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