

Readme File for Fix Pack 02 PTF U828062

Version 84.0



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Version 84.0

Note —
Before using this information and the product it supports, read the information in Chapter 3, "Notices," on page 17.
First Edition (November 2009)

This edition applies to fix pack 02 (PTF U828062) for version 8, release 4, modification level 0 of Tivoli Workload Scheduler for Applications.

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Chapter 1. Tivoli Workload Scheduler for Applications Fix Pack 02 for Version 8.4.0

Date

November 2009

Fix Pack Name

8.4.0-TIV-TWSWSE-FP0002

PTF Number

U828062

Product

IBM® Tivoli® Workload Scheduler for Applications, Version 8.4.0

General Description

Tivoli Workload Scheduler for Applications, Version 8.4.0 Fix Pack 02

This readme file provides important information about Fix Pack 02 for IBM[®] Tivoli[®] Workload Scheduler for Applications version 8.4.0.

This readme file is the most current information for the fix pack and takes precedence over all other documentation for TivoliWorkload Scheduler for Applications version 8.4.0 Fix Pack 02.

It is divided into the following sections:

- "About this fix pack"
- "Fix pack structure in the installation CDs" on page 5
- "Installing the fix pack" on page 7
- "Additional Information" on page 13

Review the following sections thoroughly before installing or using this fix pack.

About this fix pack

This section contains information specific for this fix pack including what has been modified or introduced, what has been fixed, product versions or components to which the fix pack applies and compatibility issues, if any.

Product versions and components to which the fix pack applies

This fix pack can be applied only on top of Tivoli Workload Scheduler for Applications 8.4.0.

This section includes the following subsections:

- "Options introduced with this fix pack"
- "Features introduced with Fix Pack 01" on page 2
- "Problems fixed" on page 2

Options introduced with this fix pack

This section describes the new option introduced with Tivoli Workload Scheduler for Applications version 8.4 Fix Pack 02.

Local option added to define SAP jobs

To define SAP jobs, the following local option has been added:

bapi_sync_level

(Optional) Specifies the synchronization level between the SAP function modules BAPI_XBP_JOB_COPY and BAPI_XBP_JOB_START_ASAP. Allowed values are:

high All RFC calls between BAPI_XBP_JOB_START_ASAP and BAPI_XBP_JOB_COPY are synchronized. This is the default.

medium

The RFC calls to BAPI_XBP_JOB_START_ASAP are synchronized.

low The RFC calls are not synchronized.

Features introduced with Fix Pack 01

This section describes the features introduced with Tivoli Workload Scheduler for Applications version 8.4 Fix Pack 01:

- "Displaying and rerunning of SAP process chains"
- "Definition of event rules based on IDoc records"

Displaying and rerunning of SAP process chains

Using the Tivoli Dynamic Workload Console, now you can:

- Display details about an SAP process chain that you scheduled as a Tivoli Workload Scheduler job, and any local subchains it contains.
- Rerun a Tivoli Workload Scheduler job that submits an SAP process chain, choosing among the following behaviors:
 - Submitting a new process chain instance.
 - Rerunning the original process chain from the failed processes.
 - Restarting a specific process of the original process chain.
 - Updating the status and details of the original process chain.

Definition of event rules based on IDoc records

You can monitor Intermediate Document (IDoc) records in SAP systems and forward events to the Tivoli Workload Scheduler's event integration framework. Using the Tivoli Dynamic Workload Console or composer command line, you define an event condition that contains the criteria that the IDocs must match to be forwarded to Tivoli Workload Scheduler. When the event condition occurs, the action you associated with it (for example, running a job) is performed.

Problems fixed

This section lists all APARs and internal defects solved by this fix pack and by previous versions.

APARs and Defects Fixed in Tivoli Workload Scheduler for Applications Fix Pack 02 for Version 8.4.0

List of APARs fixed:

Code APARs:

- IZ30277: R3batch contains hardcoded 10 seconds delay following call to BAPI_XBP_JOB_CLOSE.
- **IZ42214:** Error EEWO0267E encountered when an Sap job_id contains non numeric characters.
- IZ44832: Sap info packages randomly abend with EEWO0820E error.
- PK85483: MVS gateway (EEWSERVE) processing causes a job to be in failed status if an unexpected message is received from CA7 after /logon.

• PK88989: Reduce the size of the UNISXXXX socket buffers used by the MVS gateway (EEWSERVE) task, in order to reduce S878 abends.

List of defects fixed:

Code defects:

- 42717: R3evmon does not stop if the r3host is unreachable.
- 43102: Debug versions of r3evman / r3evmon crash when trying to query.
- 49492: SVT: MCMAGENT doesn't load lib on HP64.
- 49811: Process Chain with Local Process Chain is not displayed.
- 49881: Process Chain Node is shown duplicate after restart.
- 50043: Process Chain details file not found after upgrade to TWS 8.5.

APARs and Defects Fixed in Tivoli Workload Scheduler for **Applications Fix Pack 01 for Version 8.4.0**

List of APARs fixed:

Code APARs:

- **IZ09051:** Sap Joblog is filled.
- IZ21938: EEWWO0109E An internal error has occurred, errors encountered intermittently when launching SAP R/3 process chains.
- IZ23886: Update of ABAP variant content with dynamic job def is not working for XBP 1.0 sap.

Documentation updates

This section contains updated information that are included in the Tivoli Workload Scheduler for Applications version 8.4: User's Guide (Revised November 2009).

In chapter 10, section *Defining the configuration options*, Table 22, the information related to option PSFT_OPERATOR_PWD now reads as follows:

Option	Description
PSFT_OPERATOR_PWD	(Mandatory) Specifies the encrypted password (case-sensitive) of the PeopleSoft operator ID used for connecting to the PeopleSoft application server. This password cannot be longer than 8 characters.
	For details about how to encrypt the password, see "Encrypting PeopleSoft operator passwords".

In chapter 30, section *Known installation problems*, the following information was added to Table 68:

Area	Item
Uninstalling the product	Symptom : You installed (or upgraded to) Tivoli Workload Scheduler for Applications version 8.4, or later. When you try to uninstall it, uninstallation fails.
	Cause and Solution : To uninstall Tivoli Workload Scheduler for Applications, run the following command:
	On Windows operating systems TWS_home/methods/_xauninstn/uninstaller.exe
	On UNIX operating systems TWS_home/methods/_xauninstn/uninstaller.bin where:
	TWS_home The directory where you installed the product.
	_xauninstn The _xauninstn directory that was created with the most recent date.
Uninstalling the product	Symptom: You installed (or upgraded to) Tivoli Workload Scheduler for Applications version 8.4, or later, on a Tivoli Workload Scheduler instance whose version is prior to 8.5. Later, you upgrade to Tivoli Workload Scheduler version 8.5. When you try to uninstall Tivoli Workload Scheduler for Applications, uninstallation fails.
	Cause and Solution: This problem occurs because by upgrading Tivoli Workload Scheduler to version 8.5, the binary files are moved to a different directory. To uninstall Tivoli Workload Scheduler for Applications, perform either of the following:
	• Install Tivoli Workload Scheduler for Applications version 8.4 Fix Pack 2, then uninstall the product. -OR-
	 Uninstall Tivoli Workload Scheduler for Applications manually, as described in Technote 1384969.
Rolling back the product	Symptom: You installed (or upgraded to) Tivoli Workload Scheduler for Applications version 8.4, or later, on a Tivoli Workload Scheduler instance whose version is prior to 8.5. Later, you upgrade to Tivoli Workload Scheduler version 8.5. If you try to roll Tivoli Workload Scheduler for Applications back to its previous version, the operation fails.
	Cause and Solution: This problem occurs because by upgrading Tivoli Workload Scheduler to version 8.5, the binary files are moved to a different directory. To roll Tivoli Workload Scheduler for Applications back, follow the manual procedure described in Technote 1384969.

Area	Item		
Uninstallation of the product	Symptom : You installed (or upgraded to) Tivoli Workload Scheduler for Applications version 8.5 on a Tivoli Workload Scheduler instance whose version is prior to 8.5. Later, you upgrade to Tivoli Workload Scheduler version 8.5. When you try to uninstall Tivoli Workload Scheduler for Applications, uninstallation fails.		
	Cause and Solution : This is because of the updated path where Tivoli Workload Scheduler version 8.5 is installed. To be able to uninstall Tivoli Workload Scheduler for Applications, you must:		
	1. Reinstall all your access methods on the Tivoli Workload Scheduler version 8.5 instance.		
	2. Launch the uninstaller command from the _xauninstn directory that was created with the most recent date.		

Fix pack structure

This section describes the structure of the images contained in this fix pack.

It is divided into the following topics:

- "Fix pack structure in the installation CDs"
- "Fix pack files available via FTP" on page 6

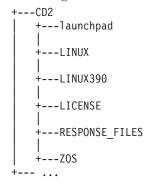
Fix pack structure in the installation CDs

This section shows the contents of the six CDs in this fix pack.

CD1 includes Fix Pack 02 images for AIX and for Microsoft Windows. It has the following structure:

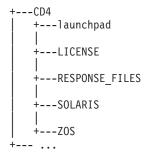


CD2 includes the Fix Pack 02 images for LINUX and LINUX390. It has the following structure:

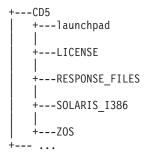


CD3 includes the Fix Pack 02 images for HPUX. It has the following structure:

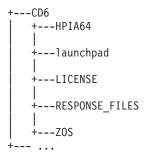
CD4 includes the Fix Pack 02 images for SOLARIS. It has the following structure:



CD5 includes the Fix Pack 02 images for SOLARIS_I386. It has the following structure:



CD6 includes the Fix Pack 02 images for HPIA64. It has the following structure:



Fix pack files available via FTP

```
+---AIX

8.4.0-TIV-TWSWSE-FP0002_AIX.TAR

+---HP

8.4.0-TIV-TWSWSE-FP0002_HP.TAR

+---HPIA64

8.4.0-TIV-TWSWSE-FP0002_HPIA64.TAR
```

```
+---LINUX
        8.4.0-TIV-TWSWSE-FP0002 LINUX.TAR
+---LINUX390
        8.4.0-TIV-TWSWSE-FP0002 LINUX390.TAR
+---SOLARIS
      8.4.0-TIV-TWSWSE-FP0002 SOLARIS.TAR
+---SOLARIS I386
       8.4.0-TIV-TWSWSE-FP0002 SOLARIS I386.TAR
+---I386NT
       8.4.0-TIV-TWSWSE-FP0002 I386NT.TAR
+---8.4.0-TIV-TWSWSE-FP0002.pdf
+---8.4.0-TIV-TWSWSE-FP0002.txt
+---8.4.0-TIV-TWSWSE-FP0002.VSR
```

Installing the fix pack

This section describes how to install IBM Tivoli Workload Scheduler for Applications, Version 8.4 Fix Pack 02.

Starting from TWS for applications 84 FixPack 2 it is possible to install 84 Fixpacks on a TWS instance previously upgraded to version 8.5 and it is not necessary to perform the steps described in Technote 1384969:

http://www-01.ibm.com/support/docview.wss?uid=swg21384969

Fix Pack 02 upgrades all the extended agents associated to the selected Tivoli Workload Scheduler for Application, Version 8.4 instances.

Fix packs are cumulative, so you can apply them directly to the general availability version of the product. Remember, however, that no fix pack will install unless you have the general availability version of the product installed on your computer. Before you install the fix pack, ensure that the following prerequisites are met:

- Tivoli Workload Scheduler processes are stopped
- No extended agent method is running

The section is divided into the following sub sections:

- "Hardware and software requirements"
- "Fix pack installation method" on page 8

Hardware and software requirements

Supported platforms

Supported platforms at the time of the release are detailed in the *User's* Guide. For the most recent information, consult the supported platforms matrix on the IBM software support Web site: http://www.ibm.com/ software/support.

- 1. From the Web site, select Tivoli support from the Other support sites
- 2. When the page displays, select IBM Tivoli Workload Scheduler for Applications from the Choose a product pull-down list.
- 3. Click the Supported Platforms in the Related Links section.
- 4. Click the Tivoli Platform and Database Support Matrix link.

5. Enter your IBM registration ID and password.

System requirements

Hardware and software prerequisites are detailed in the Tivoli Workload Scheduler for Applications: Release Notes. There are currently no changes to the information included in the Release Notes.

Fix pack installation method

The section is divided into following sub section:

- · "Installing using the ISMP wizard"
- "Installing using the ISMP silent installation"
- "Alternate install script on UNIX" on page 10
- "Installing using the Software Distribution installation" on page 11
- "Z/OS installation" on page 12

Installing using the ISMP wizard

To install the fix pack using the InstallShield MultiPlatform (ISMP) wizards perform the following steps:

- 1. Run the setup installation command appropriate for the platform on which you are installing the fix pack. The setup installation commands are located in platform specific directories. The installation program is launched.
- 2. The Welcome window is displayed. Click Next to continue. The installation program detects and lists all the instances installed on your workstation.
- 3. From the list, select the instance on which you want to apply the fix pack, and click Next to continue.
- 4. Choose one of the following actions and click Next to continue:
 - Apply
 - Rollback
 - Commit
 - Repair
- 5. You are shown the location where the files are installed with the features you selected, click Next to continue.
- 6. The installation starts.
- 7. Click Finish to complete the installation.

Note: Installing on HP-UX you could have this message: A Java Virtual Machine (JVM)is being installed in "/images/hpfta/tws/methods/_tools" and will overwrite the contents of this directory. Do you wish to overwrite this directory? You must answer yes, otherwise the installation fails.

Installing using the ISMP silent installation

This section describes how to install the fix pack using the setup installation command in silent mode. You can either specify the installation options directly on the command line or in a response file.

Note: Use the Installation option strings the exact way they are given below. To install the fix pack specifying the installation options directly on the command line, run one of the following commands:

- In a Windows environment: setup.exe -silent installation options
- In a UNIX environment:

```
setup.bin -silent installation options
```

Where the installation_options, both required, are:

```
-W CHANGE INSTANCE NAME BEAN.value="INSTANCE NAME"
```

and

-W DISPLAY ACTION.selectedAction="ACTION"

Where:

INSTANCE_NAME

Any TWS for Applications instance is identified by an instance name. This is usually the TWS user that owns the TWS home directory where the method was installed, but there are installation procedures that let the user choose the name for the instance (e.g. when performing a GA silent installation). You have to specify the instance name assigning its value to this option.

ACTION

Is the type of action you can perform. It can be one of the following values:

APPLY Apply the fix pack. If the fix pack is already

applied it will be interpreted as a repair action

UNDO Rollback the fix pack

COMMIT Commit the fix pack

This is an example that performs the APPLY action to a fix pack on a UNIX workstation:

```
setup.bin -silent
-W CHANGE_INSTANCE_NAME_BEAN.value="twsuser"
-W DISPLAY_ACTION.selectedAction="APPLY"
```

To install the fix pack using a response file, create your response file, or customize the TWS4APPSSilent.txt template response file contained in the RESPONSE_FILE directory of the fix pack. See the "Fix pack structure in the installation CDs" on page 5 for a detailed description of the fix pack structure CD-ROM. The response file must be accessible from the workstation where you want to perform the installation. Entries in the response file use the following format: option=value. Each entry must be written on a separate line.

To install the fix pack using a response file, run one of the following commands depending on the operating system in which you are applying the fix pack:

• In a Windows environment

```
setup.exe -silent -options responsefile
```

where responsefile is the name of the response file you created.

· In a UNIX environment

```
setup.bin -silent -options responsefile
```

where responsefile is the name of the response file you created.

This is a example of a response file that performs the APPLY action on the fix pack:

```
-W CHANGE_INSTANCE_NAME_BEAN.value="maestro"
-W DISPLAY ACTION.selectedAction="APPLY"
```

Alternate install script on UNIX

This section describes how to install and uninstall the fix pack using the twsappsFPinst script. The uninstall process uninstall all access method simultaneously.

Using the **twsappsFPinst** script you cannot:

- Install the Option Editor
- Have translated messages, because installation script is not localized. All the messages are shown in English

Because this installation script is included in the fix pack package, you can use it directly from the fix pack CD while applying a fix pack. To install the fix pack using the **twsappsFPinst**, perform the following steps:

1. Run the **twsappsFPinst** using the syntax described below:

```
If you want to know the syntax for the command, run:
twsappsFPinst -u
If you want to know the version for the command, run:
twsappsFPinst -v
If you want to apply the fix pack, run:
     twsappsFPinst -apply -twsuser <user name> [<access method>]...
                     [-inst_dir <TWS_install_directory>]
If you want to commit the fix pack, run:
     twsappsFPinst -commit -twsuser <user name> [<access method>]...
                     [-inst_dir <TWS_install_directory>]
If you want to rollback the fix pack, run:
 twsappsFPinst -rollback -twsuser user name [access method]...
                     [-inst_dir TWS_install_directory]
If you want to uninstall the fix pack, run:
 twsappsFPinst -uninst -twsuser <user name>
       [-inst_dir <TWS_install_directory>]
Note: This will remove _tools and also_xauninst
```

where:

user name

Specifies the user under which Tivoli Workload Scheduler is installed.

access_method

Is one of the following:

• SAP R/3

r3

Oracle

mcm

PeopleSoft

ps

z/OS

ZOS

The following are examples of how to perform fix pack actions. In all the examples, the script is located in the /mnt/cdrom/AIX directory with the SPB directory and Tivoli Workload Scheduler is installed in the tws840 home directory (/home/tws840

Example 1 - Apply the fix pack to all the access methods belonging to the tws840 installation:

[/mnt/cdrom/AIX]# ./twsappsFPinst -apply -twsuser tws840

Example 2 - The following example is equivalent to the previous (but it explicitly lists all the access methods):

[/mnt/cdrom/AIX]# ./twsappsFPinst -apply -twsuser tws840 -r3 -zos -mcm

Example 3 - Apply the fix pack to r3batch and zosagent only:

[/mnt/cdrom/AIX]# ./twsappsFPinst -apply -twsuser tws840 -r3 -zos

Example 4 - Apply the fix pack to r3batch only:

[/mnt/cdrom/AIX]# ./twsappsFPinst -apply -twsuser tws840 -r3

The following are some usage examples to uninstall all the access methods or selected ones.

Example 1- Uninstall the whole product (all the access methods) installed in the tws840 home directory;

[/home/tws840/methods]# ./ xauninst/twsappsFPinst -uninstall -twsuser tws840

Note: This command removes the _tools and _xauninst directories.

Example 2- Uninstall the whole product (all the access methods) installed in the Tivoli Workload Scheduler instance in /opt/tws840 directory;

[/home/tws840/methods]# ./ xauninst/twsappsFPinst -uninstall -twsuser tws841 -twsdir /opt/tws840

Note: This command removes the _tools and _xauninst directories.

Note: If you installed Tivoli Workload Scheduler for Applications using this script, you must install also the Fix Pack 02 using this same method, but you must launch the script in a shell where you have not set the Software Distribution environment with command:

swd env.sh

Otherwise, the twsappsFPinst script is unable to find all the libraries it needs to be able to.

Installing using the Software Distribution installation

To install the fix pack using the Software Distribution command line perform the following steps:

1. Import the TWS4APPS_method_platform.SPB into the Profile Manager, using the wimpspo command as follows:

wimpspo -c @ProfileManager -f SOURCE PATH\TWS4APPS method platform FP02.SPB -t build -p DEST PATH\TWS4APPS method platform FP02.SPB [SoftwarePackageName.8.2.1.02]

If you specify the SoftwarePackageName, this must be the same name you specified to install the IBM Tivoli Workload Scheduler for Applications, Version 8.4 software package. As default, if you do not specify the SoftwarePackageName, the software package profile

TWS4APPS_method.8.4.0.02 is created in the profile manager. For a complete listing of the options required, see Chapter 2, "Installing IBM Tivoli Workload Scheduler for Applications using Tivoli Software Distribution, version 4.1 or Tivoli Configuration Manager, version 4.2 or later" in the User's Guide.

This section describes an example to install the Fix Pack 02 of the **r3batch** access method to a Windows endpoint, where the SoftwarePackageName of the IBM Tivoli Workload Scheduler for Applications, Version 8.4 software package was TWS4APPS_R3BATCH_I386NT.8.4.

To install the Fix Pack 02 of the r3batch access method launch the following command:

```
wimpspo -c @myprofilemanager -f e:\I386NT\SPB\TWS4APPS_R3BATCH_I386NT_FP02.SPB
-t build -p c:\fixpack\TWS4APPS_R3BATCH_I386NT_FP02.SPB
TWS4APPS_R3BATCH_I386NT.8.4.0.02
```

Refer to the *IBM Tivoli Configuration Manager Reference Manual for Software Distribution* for a detailed explanation of the *wimpspo* command. For a complete list of options required to install by Software Distribution refer to the tables in Chapter 2 of "IBM Tivoli Workload Scheduler for Applications: User's Guide" Version 8.4.0.

2. To install the fix pack in undoable mode, run the following command: winstsp -uy -D INSTALL_DIR=TWSHOME @SoftwarePackageName.8.4.0.02@Endpoint:endpointname

Note: This is not valid for PeopleSoft.

- 3. To roll back to the previous code level, run the following command: wundosp @SoftwarePackageName.8.4.0.02 @Endpoint:endpointname
- 4. To commit the fix pack, run the following command: waccptsp @SoftwarePackageName.8.4.0.02 @Endpoint:endpointname
- 5. After the commit action, if you want to remove the software package, run the following command:

```
wremovsp @SoftwarePackageName.8.4.0.02 @Endpoint:endpointname
```

6. To repair a fix pack installation, run the following command: winstsp -mr @SoftwarePackageName.8.4.0.02 @Endpoint:endpointname

Z/OS installation

To install the Fix Pack 02, download the LOADLIB_840WSEFP02 and the SAMPLES_840WSEFP02 files contained in the ZOS directory of the fix pack "Fix pack structure in the installation CDs" on page 5 to the z/OS system.

To unload the files onto your z/OS system:

- 1. From your TSO session emulator, select the ISPF command shell (TSO command) and use the File Transfer utility (Send to Host) to transfer the LOADLIB library and SAMPLES member from the CD to the z/OS system, setting the transfer for a logical record length of 80 and a fixed record format.
- Receive the members in output data sets using the INDSN option. This unloads 12 load modules into the output library and two samples into the sample library.

For example:

LOADLIB

 Issue the following command: TSO RECEIVE INDSN('TWS4APPS.LOADLIB.L80')

A prompt is displayed similar to the following:

```
INMR901I Dataset TWS84.XAGENT.V8R4MO.FIXPAC04.DRV1511.LOADLIB
from TWSUSR2 on NODENAME NMR906A
Enter restore parameters or 'DELETE' or 'END' +
```

2. Reply:

```
da('TWS4APPS.LOADLIB')
```

Where: "da" means "data set" and the MVS™ data set name in quotes is the name you want for the output loadlib data set.

Some IEBCOPY messages are displayed as the library is uncompressed.

SAMPLIB

1. Issue the following command:

```
TSO RECEIVE INDSN('TWS4APPS.SAMPLIB.L80')
```

A prompt is displayed similar to the following: INMR901I Dataset TWS84.XAGENT.V8R4M0.FIXPAC04.DRV1511. SAMPLIB

from TWSUSR2 on NODENAME NMR906A Enter restore parameters or 'DELETE' or 'END' +

2. Reply:

da('TWS4APPS.SAMPLIB')

Where: "da" means "data set" and the MVS data set name in quotes is the name you want for the output samplib data set. Some IEBCOPY messages are displayed as the library is uncompressed.

Additional Information

Software prerequisites

Tivoli Workload Scheduler for Applications version 8.4 prerequisites Tivoli Workload Scheduler version 8.2, or later.

Note: To define event rules based on SAP R/3 events with Tivoli Workload Scheduler for Applications 8.4 Fix Pack 02, the master domain manager must have Tivoli Workload Scheduler 8.4 Fix Pack 01, or later, installed.

Chapter 2. Contacting IBM Software Support

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

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

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

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

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

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

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

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