IBM Dynamic Workload Console

IBM

Readme File for Fix Pack 2

Version 9.3.0

IBM Dynamic Workload Console

Readme File for Fix Pack 2

Version 9.3.0

Note

Before using this information and the product it supports, read the information in "Notices" on page 23.

Contents

Chapter 1. IBM Dynamic Workload Console Readme File for Fix Pack 2 for Version 9.3.0

Date   19 May 2016

Fix Pack Name
>   9.3.0-IBM-DWC-FP0002

Product
>   IBM® Dynamic Workload Console version 9.3.0

General Description
>   IBM Dynamic Workload Console 9.3.0 Fix Pack 2

This readme file provides important information about Fix Pack 2 for IBM Dynamic Workload Console version 9.3.0.

This readme file is the most current information for the fix pack and takes precedence over all other documentation for Dynamic Workload Console version 9.3.0 Fix Pack 2.

It is divided into the following sections:
- "About this fix pack"
- "Fix pack structure" on page 11
- "Installing the fix pack" on page 12
- "Documentation updates for IBM Dynamic Workload Console Fix Pack 1 and 2 for version 9.3.0" on page 19

IBM Dynamic Workload Console version 9.3.0 Fix Pack 2 supports all product versions indicated in the IBM Dynamic Workload Console version 9.3 Release Notes which can be accessed at the following link: http://www-01.ibm.com/support/docview.wss?uid=swg27045183#interoptable.

For the most up-to-date information about supported operating systems, software and hardware requirements, see the Detailed system requirements document at the following URL: http://www-01.ibm.com/support/docview.wss?uid=swg27045182.

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 only be applied on top of Dynamic Workload Console version 9.3.0.

This section includes the following subsections:
- "Features introduced with Fix Pack 2" on page 2
- "Features introduced with Fix Pack 1" on page 5
- "Problems fixed in Dynamic Workload Console Fix Pack 2 for version 9.3.0" on page 7

- "APARs and defects fixed in Dynamic Workload Console Fix Pack 1 for version 9.3.0" on page 8
- "Known limitations and workarounds" on page 9
- "How to configure Dynamic Workload Console to use all authenticated portal user roles" on page 11

Features introduced with Fix Pack 2

Hybrid Workload Automation

Pick a mixture of Workload Automation on Cloud and on Premises and reduce IT costs with hybrid scheduling management. Hybrid Workload Automation allows you to use a common User Interface to manage both on Premises and on Cloud engines.

You can monitor and execute actions in plan on the following objects: job, critical job, workstation, resource, prompt, job stream, file, and domain. The same efficient workload managed in the on premises environment can be scheduled to run in the on cloud environment.

You can transfer your workload from your on premises environment to your Workload Automation on Cloud through a simple import procedure. The workload is instantly reproduced and it is ready to be employed on your agents. Handling your workload in the on Cloud environment is a more cost effective way to utilize resources in the cloud only when you need them without relying on an on premises infrastructure. Workload Automation on Cloud reduces IT infrastructure costs, and it is a solution for utilizing resources only when you have a business need to run your workload. For more information about Hybrid Workload Automation see Hybrid scheduling environment in the online product documentation in IBM Knowledge Center.

New and improved web interfaces

The Workload Designer and Dynamic Workload Console interfaces have undergone some visual and usability improvements. The Workload Designer has been completely redesigned to improve your user experience. The new interface features a Welcome page which directs you to the main tasks to get you started with just one click. A similar function is available in the Welcome page for the Dynamic Workload Console, which provides a single entry point for accessing all your IBM Workload Scheduler web interfaces. For more information see Designing your workload available in the online product documentation in IBM Knowledge Center.

Checking prerequisites before running a silent installation

The silent installation method is an unattended installation that does not require user intervention, however, to ensure that the installation is not halted because of missing or insufficient system requirements, you can now run a script that checks for product system requirements before initiating the installation. The prerequisite check script is available for master domain manager and Dynamic Workload Console installations and checks requirements such as:

- Supported operating system.
- Sufficient RAM.
- Sufficient swap file space.
- Disk space for the creation of the installation and temporary directories passed in input to the script.

See "Disk space requirements" on page 13 for details about the product system requirements. For more information about the procedure for

running the prerequisite check see "Installing the fix pack using IBM Installation Manager silent installation" on page 16.

Creating a URL to launch the Plan View in context

You can create a URL to launch the Dynamic Workload Console and have it directly open the Plan View. You can then include this URL in an external application, for example, to quickly and easily access the Plan View. For more information see Creating a URL to launch the Plan View in context available in the online product documentation in IBM Knowledge Center.

Auto-complete for workstation names and user ID
An auto-complete function is now available for workstation names and user ID in job definitions in Workload Designer.

Managing Workload Security with Dynamic Workload Console
You can manage security settings in your environment by using Dynamic Workload Console

From the navigation toolbar -> Administration -> Workload Environment Design, select Manage Workload Security. Here you can create and manage security objects in the database.

According to the role-based security model, the security objects that you can define are:

Security roles
Each role represents a certain level of authorization and includes the set of actions that users or groups can do.

Security domains
Each domain represents the set of scheduling objects that users or groups can manage.

Access control lists
Each access control list is defined assigning roles to users or groups, on a certain security domain.

Tooltips and online help do assist you while accomplishing security tasks.

When the security file is updated on the master domain manager, the security settings on the master domain manager are automatically synchronized with the backup master domain managers.For more information see Managing workload security available in the online product documentation in IBM Knowledge Center.

Restarting Informatica PowerCenter jobs from the point of failure

When monitoring an Informatica PowerCenter job from Dynamic Workload Console, you can display detailed information about the Informatica PowerCenter workflow and run actions either on the workflow, or on any first-level tasks that are in the workflow, if these are sessions or worklets.

If the Informatica PowerCenter workflow fails, you can restart it from the failed task. For more information see Monitoring IBM Workload Scheduler jobs that run Informatica PowerCenter workflows available in the online product documentation in IBM Knowledge Center.

Reply to a message for an IBM i job from Dynamic Workload Console
When an IBM i job is in SUSP (suspended) status, waiting for a reply to a message, you can reply to the message directly from the Monitor Workload

of the Dynamic Workload Console. For more information see Scheduling jobs on IBM i in the online product documentation available in IBM Knowledge Center.

Single Entry Point

You're going back and forth between user interfaces and you're having trouble keeping track of which URL corresponds to which UI. Do you find yourself guessing or trying to remember the URL to access the mobile applications? Application Lab? The Dynamic Workload Console? The guessing game is over. The Single Entry Point is a single web-based page that provides direct access to all of the IBM Workload Scheduler user interfaces.

Single Entry Point is a role-based interface that you can access from any computer in your environment by using a web browser through the secure HTTPS.

Single Entry Point provides quick links to the most important Dynamic Workload Console tasks: connect your engines, design your workload, monitor your workload, and dashboard. With Single Entry Point you can access the mobile applications through the link or the Qrcode. Define your engine and your environment ID in the Single Entry Point interface, and access your Application Lab environment.For more information see IBM Workload Scheduler user interfaces available in the online product documentation available in IBM Knowledge Center.

Tivoli Common Reporting reports extended to MS SQL databases
Tivoli Common Reporting is an optional integration service of Jazz for Service Management extension for IBM WebSphere, which is installed with WebSphere Application Server.

Tivoli Common Reporting provides a web user interface functioning as a portal for IBM Cognos and allows you to administer, run, customize, and create IBM Workload Scheduler reports. Previously the reports were available only for IBM DB2 databases and now the support is extended to include also Microsoft SQL Server databases in a distributed environment. The reports include:
- Job Run History
- Job Run Statistics Chart
- Job Run Statistics Table

For more information see Tivoli Common Reporting reports available in the online product documentation available in IBM Knowledge Center.

The following are requests for enhancements (RFEs) introduced in Fix Pack 2:

RFE 75635 - Graphical View enhanced for wide monitors
You can display the Graphical View on wide monitors, so that also complex job streams are easily visible.

RFE 84003 - Modifying styles when exporting the Graphical View

You can define a custom style sheet to modify the styles used for the Graphical View, for example the background color, the color of links, and the color of objects. The changes are applied when exporting the Graphical View. For more information see Modifying styles when exporting the Graphical View available in the online product documentation available in IBM Knowledge Center.

For more information about new features introduced with this fix pack, see:
- The online product documentation in IBM Knowledge Center: http://www.ibm.com/support/knowledgecenter/SSGSPN_9.3.0/ com.ibm.tivoli.itws.doc_9.3/common/src_gi/eqqg1tdwcenh93fp2.htm.
- The IBM Workload Automation portfolio What's New page at: https://start.wa.ibmserviceengage.com/ibm/TWSSandbox/wa/ wa_whatisnew_v2.jsp.
- Helpful videos demonstrating new features for IBM Workload Scheduler on the Workload Automation channel.

Features introduced with Fix Pack 1

Conditional dependencies (RFE 103337)
With IBM Workload Scheduler you can define jobs to run when and as often as necessary. Sometimes some jobs might have to wait for other jobs to finish successfully before they start. Add even more flexibility to your job flows by choosing which job to run depending on the result of the job status or output of a previous job. Whenever you have conditions that specify whether or not a segment of your job flow should run, then that is a conditional dependency. When specifying dependencies, you can define job flows with alternative branches based on conditions, specifically to achieve the same results as using IF/THEN/ELSE statements. You can use return codes, job status, output variables, and job log content as conditional logic elements to determine the start of a successor job. In addition to providing flexibility to your job flows, the Graphical View provides a graphical representation of the relationships between the jobs and job streams, including the dependencies and conditions. This at-a-glance view of your job flow is easy to read and you can also edit your job flow from this view. For more information, see Applying conditional branching logic.

New job plug-ins

IBM Workload Scheduler Plug-in for Liberty
With the new IBM Workload Scheduler plug-in for JSR 352 Java™ Batch (plug-in for Liberty), you can schedule, run, and monitor your Java Batch applications and integrate them into more complex, composite batch workflows. For more information, see Schedule, execute, and monitor your Java Batch applications with IBM Workload Automation.

IBM Workload Scheduler Plug-in for MQTT
IBM Workload Scheduler integrates with MQTT to provide centralized management of your "Internet of Things" devices. MQTT is a publish and subscribe, simple, and lightweight messaging protocol. For more information, see Monitor and control your "Internet of Things" devices.

Implementing What-if Analysis changes to the plan
The IBM Workload Scheduler What-if Analysis shows activities displayed against time and gives you a visual representation of your plan at a glance in real time. Running the What-if Analysis before implementing the actual plan shows your predicted results at a glance. By seeing the results beforehand you can plan for any potential problems before you start. Any changes that you make in What-if Analysis are applied only for simulation purposes until you use the option "Apply changes" to the actual plan.

The jobs are visually displayed in a Gantt chart. A Gantt chart is a time and activity bar chart that illustrates a project schedule. It displays the current status of critical jobs, the planned start and end times, deadline, and the risk level associated to each critical job. For more information, see Analyzing the impact of changes on your environment.

Convert Crontab files and Windows Task Scheduler jobs
You can use the Dynamic Workload Console to read Crontab files or Windows Task Scheduler jobs and convert them into IBM Workload Scheduler objects. The jobs are added to your workload with the same specifications as the original jobs. The job streams reflect the time definition of the Cron or Windows Task Scheduler commands. You can then modify, schedule, and monitor them together with all your other objects. For more information, see Import Cron and Windows Task Scheduler.

WebSphere Application Server tools enhancements (RFE 33301)
Credentials required to submit WebSphere® Application Server tools (wastools) scripts supplied with the product are now optional when you submit the scripts to run. WebSphere Application Server administration scripts, such as starting and stopping the WebSphere Application Server, supplied with IBM Workload Scheduler retrieve the credentials stored in the `soap.client.props` file located in the properties directory of the WebSphere Application Server profile to avoid the necessity of supplying a user name and clear text password in the command line.

In addition to added security protection, the enhancement eliminates the maintenance costs associated with frequent password changes. The user ID and password are now optional and the credentials are retrieved from the soap.client.props file. However, unlike the master domain manager installation where the soap.client.props file is automatically customized with these credentials, the Dynamic Workload Console requires you to manually customize the soap.client.props file with the credentials to be able to use this enhancement. For more information, see Application server - starting and stopping.

Scheduling the centralized agent update
You can schedule the centralized update of multiple agent instances by creating a centralized agent update job, either by using the Dynamic Workload Console or the composer command line. When a job runs, it forwards to the master domain manager the Update agent request for all the fault-tolerant agent or dynamic agent instances that you selected, and then completes. For more information, see Scheduling the centralized agent update.

IBM i enhancements

Checking IBM i jobs that are waiting for a message reply
You can now use the Dynamic Workload Console and `conman showjobs` command line to check if an IBM i job is waiting for a reply to a message. An IBM i job that is waiting for a message reply is in the SUSPENDED status. This status indicates that the job is running while waiting for input. When the input is received, the job status changes to Running.

Viewing the message for which an IBM i job is waiting for a reply
You can also view the message for which the IBM i job is waiting for a reply. The message text and the reply are written into the

corresponding IBM Workload Scheduler job log, so that the IBM Workload Scheduler operator knows the exact message the IBM i job is waiting for.

Specifying the name of the queue where IBM i jobs are monitored
You can specify the name of the queue where the jobs are monitored by using the customizable property `MonitorQueueName` in the native job launcher section of the `JobManager.ini` file. If you do not specify this property, the default queue (`QBATCH`) is used.

For more information, see Scheduling jobs on IBM i systems.

Miscellaneous enhancements:

Graphical view enhancements (RFE 134705)
Viewing and printing large job streams from a graphical view has been improved. Changes have been made to the general layout including making external dependencies easier to view, changing the size of the graphical elements so that the entire job or job stream name is no longer truncated, and improving the zoom level so that you can zoom further on larger job streams.

Persistent settings for column resizing (RFE 114136)
Resizing columns is sometimes necessary, for example, to display the complete name of a job or job stream name. With this fix pack, any resizing you apply to a column is maintained throughout the current session and for all subsequent sessions. The same resizing is automatically applied to other views displaying the same information.

Job display improvement
The filter to show jobs regardless of their rerun status has been restored.

The following are requests for enhancements (RFEs) introduced in Fix Pack 1:
- 134688: No confirmation when deleting workload designer objects
- 134687: 17 character cutoff on database export
- 134293: No confirmation message for deleting objects in the Detail view screen
- 99989: Autorefresh in TWS 9.1

For more information about new features introduced with this fix pack, see Dynamic Workload Console version 9.3 Fix Pack 1 enhancements.

Helpful videos demonstrating new features for IBM Workload Scheduler is available on Workload Automation channel.

Problems fixed in Dynamic Workload Console Fix Pack 2 for version 9.3.0

This section lists APARs and internal defects solved by Fix Pack 2.

List of APARs fixed:
- **IV80576**: CRASH DURING PLAN VIEW OF A LARGE QUERY OF JOBSTREAM
- **IV69069**: DYNAMIC WORKLOAD CONSOLE UPGRADE FAILS DUE TO EWAS START ERROR XMN TOO LARGE

- **IV80208**: AWKIPC005E FAILED TO RUN WORKFLOW ERROR ENCOUNTERED WHEN ATTEMPTING TO RUN INFORMATICA ...
- **IV81244**: "REPLY YES TO XXXXX" (XXXXX=PROMPT) ACTION DOES NOT WORK AFTER
- **IV81313**: EVENT RULE LAUNCHING Z/OS JOB GETS ERROR AWSZAP006E AFTER
- **IV77219**: PROMPTSTATUSCHANGED EVENT LOST IF THE PROMPT HAS DOUBLE QUOTES ⌂
- **IV76571**: ERROR: 'UNRECOGNIZED COMMAND LINE ARGUMENT "-NOROOT"' WITH LINUX 9.3 TDWC INSTALL USING 'SETUPDWC.SH -NOROOT'. IV81197 JOBMANAGER SUDDENLY TERMINATES WITH CORE
- **IV78611**: PROBLEMS WHEN USING RUNCYCLE GROUPS AND FREEDAYS CALENDAR
- **IV81843**: UNABLE TO USE SPECIAL CHARACTERS IN Z/OS SHADOW JOB NAMES IN
- **IV81843**: DYNAMIC WORKLOAD CONSOLE 9.3 W/ IBM WORKLOAD SCHEDULER FOR Z/OS RETURNS SQL ERROR -206 FROM JOB HISTORY VIEW

List of APARs fixed in a z/OS environment:
- **IBMi agent:**
  - **PI56945**: CRITICAL JOB EXTENDED STATUS NOT UPDATED FOR SUSPENDED EVENT
  - **PI62211**: SUPPORT SUSPENDED STATUS IN A CONFIGURATION WITH DYNAMIC DOMAIN MANAGER
  - **PI62823:** SUPPORT SUSPENDED STATUS IN A CONFIGURATION WITH ALTERNATE WORKSTATION
- **PI61504**: SUPPORT INFORMATICA PLUG-IN ACTIONS FROM DYNAMIC WORKLOAD CONSOLE

List of defects fixed:
- **126590**: EQQA540W has been changed in ERROR so the save of operation record in job stream and current plan should be stopped.
- **130480**: TCR Installation fails on Linux for missing prerequisites.
- **131495**: JazzSM fresh installation takes long time.
- **133721**: Old product's name is present in the more info panel during Dynamic Workload Console installation.

APARs and defects fixed in Dynamic Workload Console Fix Pack 1 for version 9.3.0

This section lists APARs and internal defects solved by Fix Pack 1.

List of APARs fixed:
- **IV74788:** SUBMIT "EVERY 0000" JOB FROM TDWC RUNS ONLY ONCE INSTEAD OF EVERY.
- **IV73206:** When you change the LPAR z/OS® connector, the DWC does not sent the pifInit.

List of defects fixed:
- **141274:** Workload Designer - create job stream errors.

- **141277:** Workload Designer - absolute and relative interval doesn't work on conditional dependency.
- **144780:** By DWC, cannot release a dependency.
- **144463:** DWC silent installation 93FP1 one shot: failure during z-connector installation.
- **138468:** TDWC Upgrade from 851fp5 to 9.3 failure.
- **146907:** SSD - cannot create new dashboard using Google Chrome.
- **118719:** [DASH 56273] DWC - Workload Dashboard shows blank portlet in staging environment.
- **136243:** The scripts that customize SQL uses a wrong name as JRE home dir.
- **145505:** ING-TEST - DWC loads the same results even if you change the Engine Connection.
- **136245:** What if: canceled job status is not correct.
- **146757:** What if - the jobs have an incorrect duration.
- **147024:** What if - incorrect js status using IE
- **146760:** What if: wrong estimated duration for job in running state.
- **142003:** IWS 9.3.1 - DWC 9.3 GA and DWC 9.3 FP1 installation blocked if there are more than one node on JazzSM profile.
- **144077:** DWC 9.3.1, migrating DWC 9.1 FP2 to DWC 9.3 FP1 rollback does not work.

Known limitations and workarounds

The following are software limitations and workarounds that affect Dynamic Workload Console version 9.3.0 Fix Pack 1 and 2. For a list of known problems and limitations documented for the V9.3 General Availability release, refer to the Dynamic Workload Console V9.3 Release Notes.

9.3.0 Fix Pack 2

Launching a portlet results in error message: "This portlet page is not ready. Please try again.".
> When launching a portlet, such as clicking the **Manage Engine** link from the single entry point page from the Dynamic Workload Console, or when launching the Dynamic Monitoring Query portlet from Application Lab, the portlet does not respond immediately and returns the error message: "This portlet page is not ready. Please try again." Repeating the request several times eventually produces the portlet and its contents correctly.

Dynamic Workload Console workload dashboard unable to establish a connection with the master domain manager
> Unexpected security exception in Dynamic Workload Console SystemOut.log due to security exception after a trusted login

Adding a new dependency from the Monitor Workload entry the search does not work correctly if there is more than one job stream with the same name
> When trying to add dependencies to a job or a job stream from the Monitor Workload entry, if the job stream selected in the search panel has the same name as another job stream, the search reports all jobs related to all job streams with the same name.

Dashboard Application Services Hub console does not function correctly after applying WebSphere Application Server interim fix PI50993

Jazz for Service Management is a prerequisite for Dynamic Workload Console version 9.3 Fix Pack 2 that supports IBM WebSphere Application Server version 8.5.5.8. If you apply the IBM WebSphere Application Server interim fix PI50993 in a WebSphere Application Server Version 8.5.5.8 environment, the console does not function correctly. For information about resolving this problems see this technote http://www-01.ibm.com/support/docview.wss?uid=swg21980056.

IBM Jazz for Service Management Dashboard Application Services Hub (DASH) in high availability mode becomes unresponsive during workload execution with hundreds of users accessing the database simultaneously

When multiple threads access the database to retrieve the data, it makes the system become unresponsive. This is a known DASH problem and a workaround to resolving the problem is documented in the technote found at the following URL: http://www-01.ibm.com/support/docview.wss?uid=swg21981812.

9.3.0 Fix Pack 1

Conditional dependencies

Conditional dependencies are not supported for critical path

When trying to display predecessors from the More Actions menu in the monitor jobs view, predecessors related to conditional dependencies are not displayed because the Predecessors panel does not display all predecessors but rather this view is dedicated to displaying jobs that are fundamental to the success of the selected job, that is jobs that are in Critical Path, or Hot List.

Conditional dependencies are not supported in the What-if Analysis view

Conditional dependencies are not visible from the What-if Analysis view and you therefore cannot simulate, evaluate, and implement changes on the current plan.

Dynamic monitoring query results with multiple dependency criteria

When running a dynamic monitoring query that includes multiple dependencies specified in the query criteria, the results do not correspond to the combination of criteria specified.

Defining a workstation class with fault-tolerant agents at versions earlier than 9.3 Fix Pack 1

When defining a workstation class containing fault-tolerant agents at versions earlier than 9.3 Fix Pack 1, the following problems might be encountered: scheduled objects on the fault-tolerant agents are not correctly managed, the statuses of jobs and jobs are not reported consistently, and the number and statuses of unsatisfied dependencies related to conditional dependencies are reported incorrectly.

Cannot select empty file from Import Definitions portlet with Microsoft Internet Explorer 10

When performing an import cron or import Windows Task Scheduler operation from the Import Definitions portlet, if you select an empty file, the operation cannot complete. The problem is

due to a known Microsoft Internet Explorer bug for which an existing bug report has been opened at the following link: https://connect.microsoft.com/IE/feedback/details/813443/ uploading-empty-file-ie10-ie11-hangs-indefinitely.

Multiple instances of the same window are opened in Mozilla Firefox when pop-up windows are blocked

When the **Block pop-up windows** setting is enabled in the Mozilla Firefox browser, and a pop-up window is launched, multiple instances of the same window are opened. This behavior does not occur if pop-up windows are not blocked. A bug report has been filed with Mozille at the following link: https://bugzilla.mozilla.org/show_bug.cgi?id=1223754

Workaround: To work around this problem, follow the steps:

1. When blocking a pop-up, an information bar displays in the location bar. Click **Options** in the information bar and select **Allow pop-ups for this site**.
2. Close the first window that appears upfront.

The following is an alternative workaround:

1. Click **Options** in the information bar and select **Edit Pop-up Blocker Options**.
2. Click **Allow**.
3. Click **Close**.
4. Click **OK** on the Dynamic Workload Console.
5. Relaunch the Workload Designer.

How to configure Dynamic Workload Console to use all authenticated portal user roles

Technote 1667999 has been published with the steps needed to configure the Dynamic Workload Console to use all the authenticated portal user roles.

Fix pack structure

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

Fix pack files available using Fix Central

This is the structure of the fix pack in Fix Central:

```
+---9.3.0-IBM-DWC-FP0002.README.zip
|
+---9.3.0-IBM-DWC-AIX-FP0002.zip
|
+---9.3.0-IBM-DWC-LINUX390-FP0002.zip
|
+---9.3.0-IBM-DWC-LINUX_X86_64-FP0002.zip
|
+---9.3.0-IBM-DWC-WINDOWS_X86_64-FP0002.zip
```

Installing the fix pack

This section describes how to apply Fix Pack 2 to the Dynamic Workload Console version 9.3.0.

Before starting the installation, verify that:
- The Dynamic Workload Console is active.
- No user is connected to the Dynamic Workload Console to prevent the data related to their working session from being lost.

This section is divided into the following subsections:
- "Installation notes"
- "Interoperability notes"
- "Installation methods"
- "Disk space requirements" on page 13
- "Before Installing" on page 13
- "Installing the Dynamic Workload Console for the first time using the IBM Installation Manager wizard" on page 14
- "Installing the fix pack on the Dynamic Workload Console General Availability version 9.3 using the IBM Installation Manager wizard" on page 14
- "Installing the fix pack on a Dynamic Workload Console version earlier than 9.3" on page 15
- "Installing the fix pack using IBM Installation Manager silent installation" on page 16
- "Installation log files" on page 19

Installation notes

Read this section thoroughly before installing this fix pack.
- Before installing the fix pack, ensure you have installed the required prerequisite software. With the Dynamic Workload Console version 9.3 Fix Pack 2, a newer version of Jazz for Service Management is required, version 1.1.2.1.

  To obtain the latest information about software requirements for IBM Workload Scheduler , run the Software Requirements report and browse to the relevant section.
- **On UNIX systems only**: Before installing either the Dynamic Workload Console version 9.3 or this fix pack, make sure that **umask** is set to **022**. To verify that **umask** is set to the correct value, from a command prompt, run the **umask** command. If the value is different from **022**, modify it by running the command:

  ```
  umask 022
  ```

Interoperability notes

Dynamic Workload Console version 9.3.0 Fix Pack 1 supports all product versions indicated in the Dynamic Workload Console version 9.3 Release Notes which can be accessed at the following link: http://www-01.ibm.com/support/docview.wss?uid=swg27045183#interoptable.

Installation methods

When you install the fix pack, you can choose one of the following methods:
- "Installing the Dynamic Workload Console for the first time using the IBM Installation Manager wizard" on page 14

- "Installing the fix pack on the Dynamic Workload Console General Availability version 9.3 using the IBM Installation Manager wizard" on page 14
- "Installing the fix pack on a Dynamic Workload Console version earlier than 9.3" on page 15
- "Installing the fix pack using IBM Installation Manager silent installation" on page 16

Disk space requirements

Before starting the fix pack installation, ensure that you have the following space available in the file system. The values indicated in the table show the disk space required by the Dynamic Workload Console alone. For the disk space required by other components, see the relevant documentation. For the most up-to-date information about disk space and memory requirements, generate a dynamic hardware requirements report from the IBM Software Product Compatibility Reports web site at the following URL: http://www-969.ibm.com/software/reports/compatibility/clarity-reports/report/html/hardwareReqsForProduct?deliverableId=1393949467532 &osPlatforms=AIX|HP|IBM%20i|Linux|Solaris|Windows|z/OS &duComponentIds=S002|S001|A005|A003|A004.

Table 1. Disk space requirements for installing a Dynamic Workload Console fix pack

Operating System	Installation directory	Temporary directory
AIX®	2 GB	800 MB
Linux s390x	2 GB	800 MB
Linux x86-64	2 GB	800 MB
Windows 64	2,5 GB	1 GB

Note: In addition to the above disk space, the installation requires further 579 MB on /usr file system.

If the installation fails because of lack of free disk space, you must stop the installation, free space on your disk, and start the installation again.

Before Installing

Before installing the fix pack using any of the methods described in the following sections, complete the following actions:

1. Download the appropriate ZIP files for the operating system from IBM Fix Central.
2. Extract the content of the ZIP files into a directory, using one of the extraction tools available on your system or downloadable from the internet . The tool you use must be able to keep the file permissions on the extracted files, for example, infozip. On Windows systems, ensure that you extract the image into a path that is not very long, otherwise, the file name might be truncated. The maximum length allowed is 255 characters. If you are installing on a UNIX operating system, run the following command:

   ```
   chmod -R 755 <imagesDir>
   ```

Note: To extract the **.zip** file onto a Windows 64-bit system, ensure that the eImage is not located on the desktop because the Windows operating system extract tool has a problem. Choose another directory into which to extract the fix pack eImage.

Installing the Dynamic Workload Console for the first time using the IBM Installation Manager wizard

To install the Dynamic Workload Console for the first time using the interactive wizard, complete the following steps:

1. Perform the actions described in section "Before Installing" on page 13.

2. Download the version 9.3 General Availability eImage from Passport Advantage Online specific for the operating system and extract it into a path of your choice.

3. Download the version 9.3 Fix Pack 1 TAR or ZIP file from IBM Fix Central specific for the operating system and extract it. To extract the **.tar** file, ensure that you use the GNU version of the TAR command. Otherwise, if you extract the file using a version other than GNU, your fix pack installation fails. If you are installing on a UNIX operating system, run the following command:

   ```
   chmod -R 755 <imagesDir>
   ```

4. Depending on the type of operating system, run the following command:

   On Windows operating systems:
   > From the directory where you extracted the files, run `setupDWC.cmd` `-gapath <extraction_path>`.

   On UNIX and Linux operating systems:
   > From the directory where you extracted the files, run `setupDWC.sh` `-gapath <extraction_path>`.

   where *<extraction_path>* is the path into which you extracted the IBM Workload Scheduler General Availability eImage.

   The IBM Installation Manager window opens.

5. Select the packages you want to install and the click **Next** to continue.

6. In the Validating Results page, check that all the prerequisites are fulfilled and then click **Next** to continue.

7. In the Licenses page, read the license agreement for the selected package. If you agree to the terms of all the license agreements, click **I accept the terms in the license agreements** and then click **Next**.

8. In the Install Packages page, type the directory where you want to install the product and then click **Next** to continue.

9. In the Summary page, review your choices before upgrading the product package. To change any choices that you made on previous pages, click **Back** and make the changes. When you are satisfied with your installation choices, click **Install** to install the packages.

10. Click **Finish** to complete the installation.

Installing the fix pack on the Dynamic Workload Console General Availability version 9.3 using the IBM Installation Manager wizard

To install the fix pack using the interactive wizard, complete the following steps:

1. Perform the actions described in section "Before Installing" on page 13.

2. Download the TAR or ZIP file specific for the operating system and extract it. To extract the **.tar** file, ensure that you use the GNU version of the TAR command. Otherwise, if you extract the file using a version other than GNU, your fix pack installation fails. If you are installing on a UNIX operating system, run the following command:

```
chmod -R 755 <imagesDir>
```

3. You can start the installation process by using one of the following methods:
   the:

   IBM Installation Manager program

   a. Start the Installation Manager.

   b. In the menu bar, click **File** > **Preferences**.

   c. The Repositories window opens. Click **Add Repository**.

   d. In the Select a Repository window, in the Filter pane, type the path to the directory where the fix pack files are located.

   e. In the Directories pane, select the directory containing the fix pack files and click **OK**.

   The scripts `update.bat` or `update.sh`

   Depending on the type of operating system, run the following command:

   On Windows operating systems:
   On Windows platforms, you must use only the 32-bit version of IBM Installation Manager. From the root directory of the eImages, run `update.bat`.

   On UNIX and Linux operating systems:
   From the root directory of the eImages, run `update.sh`.

   The IBM Installation Manager window opens.

4. Verify that the check box **Search service repositories during installation and updates** is not selected, then click **OK** in the Repositories window.

5. Click **Update**.

6. In the Installation Packages page, select the **"Dynamic Workload Console"** > **"Version 9.3.0.1"** product package. Click **Next** to continue.

7. In the Licenses page, read the license agreement for the selected package. If you agree to the terms of all the license agreements, click **I accept the terms in the license agreements** and then click **Next**.

8. In the Summary page, review your choices before upgrading the product package. To change any choices that you made on previous pages, click **Back** and make the changes. When you are satisfied with your installation choices, click **Update** to install the update packages.

9. Click **Finish** to complete the installation.

Installing the fix pack on a Dynamic Workload Console version earlier than 9.3

To install the fix pack on a Dynamic Workload Console version earlier than 9.3, complete the following steps:

1. Perform the actions described in the section "Installing the Dynamic Workload Console for the first time using the IBM Installation Manager wizard" on page 14. Be sure to install the product in a directory different from the one where the version earlier than 9.3 is installed.

2. Follow the instructions in the upgrading chapter for the Dynamic Workload Console in the *Planning and Installation* guide.

Installing the fix pack using IBM Installation Manager silent installation

Before you begin

After you complete the actions described in the section "Before Installing" on page 13, if you want to install the fix pack in silent mode use the silent installation. When you run a silent installation, you must create a response file to use as input to the IBM Installation Manager silent installation commands. The response file includes all the information required to run the installation without user intervention.

As a prerequisite step, specifically for the Dynamic Workload Console silent installation, you can run a script that checks the system against the product system requirements to ensure a successful installation without delays or complications. The prerequisite check script checks requirements such as:

- Supported operating system.
- Sufficient RAM.
- Sufficient swap file space.
- Disk space for the creation of the installation, Jazz for Service Management, and temporary directories passed in input to the script.

For specific details about the product system requirements see "Disk space requirements" on page 13.

To run the prerequisite check script, copy the script `dwcPrereqcheck.bat` or `dwcPrereqCheck.sh` and the `Prerequisites` folder from the fix pack image to a folder on the system where you plan to run the installation and ensure you have read, write, and execute permissions on the `Prerequisites` folder. If the fix pack image is already on this system then you can run the script directly from the fix pack image location. Submit the script to run as follows:

On Windows operating systems:
> Run the following command:
>
> `dwcPrereqCheck.bat -instdir <DWC_HOME> -jazzdir <JAZZDIR> -tmpdir <tmp>`

On UNIX or Linux operating systems:
> Run the following command:
>
> `dwcPrereqCheck.sh -instdir <DWC_HOME> -jazzdir <JAZZDIR> -tmpdir <tmp>`
>
> where,
>
> *<DWC_HOME>*
> > Represents the Dynamic Workload Console installation path, for example, on Windows, this path is `C:\Program Files\IBM\TWAUI`.
>
> *<JAZZDIR>*
> > Represents the directory where the Jazz™ for Service Management extension for WebSphere is installed.
>
> *<tmp>* Represents the temporary folder on the system where you are running the installation.

The results of the prerequisite check are written to a text file named, `result.txt`, located in the `Prerequisites` folder.

You are provided with several sample response files located in the
\response_files\ directory. Depending on the initial version of your components,
select the appropriate response file, determine the eImages you need to download
and extract, and then customize the properties in the response file including the
settings for the repository location of the eImages before performing the silent
installation.

Important: During the silent installation, if the location specified for a repository is
not found, then correct the location and before rerunning the installation, clear the
repository locations from IBM Installation Manager:

1. Open the **Preferences** panel in Installation Manager.
2. From the **Repositories** page, select and remove the repository location in error.
3. Correct the repository location in the response file.
4. Rerun the silent installation.

Table 2. Response files for fix pack installation

Response File Name	Description	Required Images and Repository Location
IWS93_UPDATE_DWC3_<os_name>.xml	This response file applies the fix pack to a version 9.3 console bringing it to the 9.3 FP2 level.	9.3 FP2
IWS93_UPGRADE_DWC_<os_name>.xml	This response file upgrades a version 9.1 or 9.2 console to the 9.3 FP2 level.	• 9.3 FP2 • 9.3 GA
IWS93_FRESH_DWC_<os_name>.xml	This response file performs a fresh installation of the version 9.3 GA console plus fix pack 2. Use this installation if you have WebSphere Application Server and Installation Manager already installed.	• 9.3 FP2 • 9.3 GA
IWS93_FRESH_FULL_DWC_<os_name>.xml	This response file performs a first time fresh installation of the version 9.3 GA console, fix pack 2, WebSphere Application Server, Jazz for Service Management, Dashboard Application Services Hub, and Installation Manager. WebSphere Application Server, Jazz for Service Management, Dashboard Application Services Hub must be purchased separately.	• 9.3 FP2 • 9.3 GA • WebSphere Application Server • Jazz for Service Management extension for IBM WebSphere with Dashboard Application Services • Installation Manager
IWS93_FRESH_IntegrationWorkbench_<os_name>.xml	This response file performs a fresh installation of the version 9.3 GA Integration Workbench plus fix pack 2. Use this installation if you have WebSphere Application Server and Installation Manager already installed.	• 9.3 FP2 • 9.3 GA
IWS93_FRESH_FULL_IntegrationWorkbench_<os_name>.xml	This response file performs a first time fresh installation of the version 9.3 GA Integration Workbench, fix pack 1, WebSphere Application Server, and Installation Manager. WebSphere Application Server must be purchased separately.	• 9.3 FP2 • 9.3 GA • WebSphere Application Server • Installation Manager

About this task

Create your own response file or customize a sample response file to include the options required to complete the installation you want to perform. Complete the following steps:

Procedure

1. Copy the relevant response file to a local directory.
2. Edit the Dynamic Workload Console section. For details about the response file properties, see the topic about the Dynamic Workload Console response file properties in the *Planning and Installation* guide.
3. Save the file with your changes.
4. Open a command-line prompt.
5. Change to the Installation Manager `tools` directory. The default path for the `tools` directory is:
   - **On Windows operating systems:**
     ```
     C:\Program Files\IBM\Installation Manager\eclipse\tools
     ```
   - **On UNIX and Linux operating systems:**
     ```
     /opt/IBM/InstallationManager/eclipse/tools
     ```
6. To run the Installation Manager in silent mode, run the following command:
   - **On Windows operating systems:**
     ```
     imcl.exe -c
     ```
   - **On UNIX and Linux operating systems:**
     ```
     ./imcl -c
     ```
7. Type *P* and press the Enter key to access the **Preferences** menu.
8. Type *1* and press the Enter key to access the **Repositories** menu.
9. Remove all the listed repositories by typing the number beside each repository to edit it and then type *2* to remove the repository. Complete these actions for each of the listed repositories.
10. If there is an *X* beside the **S** menu item related to **Search service repositories**, type *S* and press the Enter key to deselect it.
11. Type *A* and press the Enter key to apply the changes.
12. Type *R* and press the Enter key to return to the main menu.
13. Type *X* and press the Enter key to exit.
14. Go to the Installation Manager `tools` directory. The default `tools` directory is:
    - **On Windows operating systems:**
      ```
      C:\Program Files\IBM\Installation Manager\eclipse\tools
      ```
    - **On UNIX and Linux operating systems:**
      ```
      /opt/IBM/InstallationManager/eclipse/tools
      ```
15. Run the following command:
    - **On Windows operating systems:**
      ```
      imcl.exe input <local_dir>\response_file.xml
      -log <local_dir>\log_file.xml
      -acceptLicense -nosplash
      ```
    - **On UNIX and Linux operating systems:**
      ```
      ./imcl input /<local_dir>/response_file.xml
      -log /<local_dir>/log_file.xml
      -acceptLicense -nosplash
      ```

where *response_file* is the name of the response file to be used for the installation, and *log_file* is the name of the file that records the output of the silent installation. For information about the installation log files see "Installation log files."

Installation log files

This section describes the log files created by the installation process using the IBM Installation Manager wizard.

- Log file for Installation Manager:

  On Windows operating systems:
  `C:\ProgramData\IBM\InstallationManager\logs\<YYYYMMDD_HHMM>.xml`

  Note: The folder `ProgramData` is a hidden folder.

  On UNIX and Linux operating systems:
  `/var/ibm/InstallationManager/logs/<YYYYMMDD_HHMM>.xml`

  where *<YYYYMMDD>* is the date and *<HHMM>* is the time when the log file is created.

Documentation updates for IBM Dynamic Workload Console Fix Pack 1 and 2 for version 9.3.0

Any additions or changes to the documentation as a result of these fix packs have been integrated into the online product documentation available in IBM Knowledge Center.

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 Handbook* at the following website:

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.

Notices

This information was developed for products and services offered in the US. This material might be available from IBM in other languages. However, you may be required to own a copy of the product or product version in that language in order to access it.

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

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

IBM Director of Licensing
IBM Corporation
North Castle Drive, MD-NC119
Armonk, NY 10504-1785
USA

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

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

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

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those

websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

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

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

IBM Director of Licensing
IBM Corporation
North Castle Drive, MD-NC119
Armonk, NY 10504-1785
USA

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

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

The performance data discussed herein is presented as derived under specific operating conditions. Actual results may vary.

The client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

The performance data and client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

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

Statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the

names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to actual people or business enterprises is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Trademarks

IBM, the IBM logo, and ibm.com® are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "http://www.ibm.com/legal/copytrade.shtml." Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

Adobe, the Adobe logo, PostScript and the Postscript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Cell Broadband Engine is a trademark of Sony Computer Entertainment, Inc., in the United States, other countries, or both and is used under license therefrom.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

IT Infrastructure Library is a registered trademark of the Central Computer and Telecommunications Agency which is now part of the Office of Government Commerce.

ITIL is a registered trademark, and a registered community trademark of the Office of Government Commerce, and is registered in the U.S. Patent and Trademark Office.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

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

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

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

Linear Tape-Open, LTO, the LTO Logo, Ultrium, and the Ultrium logo are trademarks of HP, IBM Corp. and Quantum in the U.S. and other countries.

IBM ®