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Preface

This guide describes the installation, configuration, and usage of the JD Edwards Adapter with Tidal Workload Automation (TWA).

Audience

This guide is for administrators who install and configure the JD Edwards adapter for use with TWA, and who troubleshoot TWA installation and requirements issues.

Related Documentation

For a list of all Tidal Workload Automation guides, see the Tidal Workload Automation Documentation Overview of your release on tidalautomation.com at:

http://docs.tidalautomation.com/

Note: We sometimes update the documentation after original publication. Therefore, you should also review the documentation on tidalautomation.com for any updates.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see What’s New in Tidal Product Documentation at:

https://docs.tidalautomation.com/rss

Subscribe to What’s New in Tidal Product Documentation, which lists all new and revised Tidal technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.
The table below provides the revision history for the Tidal Workload Automation JD Edwards Adapter Guide.

**Table 2-1**

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<th>Issue Date</th>
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<td>6.0.1</td>
<td>January 2011</td>
<td>New release.</td>
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<tr>
<td>6.1.0</td>
<td>October 2012</td>
<td>New release.</td>
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<tr>
<td>6.2.1</td>
<td>June 2014</td>
<td>Available in online Help only.</td>
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<td>6.2.1 SP2</td>
<td>June 2015</td>
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<td>6.2.1 SP3</td>
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<td>Consolidated all JD Edwards Adapter documentation into one document.</td>
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<td>6.3</td>
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<td>Rebranded “Cisco Tidal Enterprise Scheduler (TES)” to “Cisco Workload Automation (CWA)”.</td>
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<td></td>
<td></td>
<td>Miscellaneous edits for the 6.3 release.</td>
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<td>6.3.3</td>
<td>Jan 2018</td>
<td>Rebranded “Cisco Workload Automation (CWA)” to “Tidal Workload Automation (TWA)”.</td>
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Introducing the JD Edwards Adapter

This chapter provides an overview of the JD Edwards Adapter and its requirements:

- Overview, page 7
- Requirements, page 7

Overview

The Tidal Workload Automation JD Edwards Adapter facilitates the automation and scheduling of JD Edwards as part of cross-platform, cross-application enterprise process orchestration. The JD Edwards Adapter:

- Uses the same user interface approach as other types of jobs and provides seamless integration of Universal Batch Engine (UBE) management into existing operational processes.
- Provides integrated security management features with the TWA that can be applied to JD Edwards connections and jobs, ensuring secure management and use of required security credentials.

You can use the JD Edwards Adapter to add complex scheduling functions to an existing JD Edwards solution from a centralized console. You can schedule, launch, monitor, and control JD Edwards Universal Batch Engine (UBE) programs, which are used to execute JD Edwards defined processes. The JD Edwards adapter also provides easy to use access for connectivity setup, job definition, and monitoring.

The JD Edwards Adapter includes the following features:

- JD Edwards connection management to monitor system status with a live connection to the Enterprise Server.
- JD Edwards job management to do the following:
  - Schedule and monitor JD Edwards UBEs from a centralized work console with TWA.
  - Specify parameter overrides for data selection and processing options used for job execution.
  - Print, save, and delete report output.
  - Associate defined dependencies and events with TWA for scheduling control.
  - Provide job execution control including terminating, holding, and releasing scheduled UBEs.

Requirements

The requirements for the JD Edwards Adapter are as follows:

- Tidal Workload Automation 6.0.1 or later is required.
- EnterpriseOne Application Release 8.12+ with JD Edwards tools 8.96+
- Tidal Workload Automation Adapters require Java 7.

Note: See the Tidal Workload Automation Compatibility Guide for specific versions.
Configuring the JD Edwards Adapter

Overview

The JD Edwards Adapter software is installed as part of a standard installation of TWA. However, you must perform the following steps to license and configure the adapter before you can schedule and run JD Edwards jobs:

- **Configuring the JDE.INI Configuration File** – Configure the JDE.INI configuration file for your platform.
- **Licensing an Adapter** – Apply the license to the JD Edwards Adapter. You cannot define a JD Edwards connection until you have applied the JD Edwards license.
- **Configuring the JD Edwards Adapter** – Configure the JDE API (before startup!), debug options, and the HTTPS protocol for the JD Edwards Adapter.
- **Securing the JD Edwards Adapter** – Define JD Edwards users that the adapter can use to establish authenticated sessions with the JD Edwards server and permit requests to be made on behalf of the authenticated account.
- **Defining a JD Edwards Adapter Connection** – Define a JD Edwards connection so the master can communicate with the JD Edwards server.

See Configuring service.props for details about configuring service.props to control such things as polling, output, and log gathering.

Configuring the JDE.INI Configuration File

The JDE.INI configuration file on the Enterprise Server must be reviewed and changed, if necessary, to start jdenet kernel processes for the XML Dispatcher as described below.

To configure the JDE.INI configuration file on the Enterprise Server:

1. Review and modify the JDE.INI configuration as appropriate for your operating system:

**LINUX/SOLARIS/AIX/HPUX**

```ini
[JDENET_KERNEL_DEF16]
krnlName=XML LIST KERNEL
dispatchDLLName=libxmllist.so (.sl for HPUX)
dispatchDLLFunction=XMLListDispatch
maxNumberOfProcesses=1
numberOfAutoStartProcesses=0

[JDENET_KERNEL_DEF22]
krnlName=XML DISPATCH KERNEL
dispatchDLLName=libxmlmdispatch.so (.sl for HPUX)
dispatchDLLFunction=JDEK_XMLDispatch
maxNumberOfProcesses=6
numberOfAutoStartProcesses=1
```

**WINDOWS**

```ini
[JDENET_KERNEL_DEF16]
```
The `maxNumberOfProcesses` setting provides 6 kernel processes for handling the JDE adapter requests. This number can be tuned up or down depending on the level of activity from the adapter.

The `numberOfAutoStartProcesses` should be set to a value greater than zero so that a kernel process is available to handle adapter requests.

2. If the list, call method and/or ube request types have not been defined in the [XMLLookupInfo] section, add them as shown in the following example:

   ```
   XMLRequestType1=list
   XMLKernelMessageRange1=5257
   XMLKernelHostName1=local
   XMLKernelPort1=0

   XMLRequestType2=callmethod
   XMLKernelMessageRange2=920
   XMLKernelHostName2=local
   XMLKernelPort2=0

   XMLRequestType7=ube
   XMLKernelMessageRange7=380
   XMLKernelHostName7=local
   XMLKernelPort7=0
   XMLKernelReply7=1
   ```

3. If you make any changes, restart the Enterprise Server.
Licensing an Adapter

Each TWA Adapter must be separately licensed. You cannot use an Adapter until you apply the license file. If you purchase the Adapter after the original installation of TWA, you will receive a new license file authorizing the use of the Adapter.

You might have a Demo license which is good for 30 days, or you might have a Permanent license. The procedures to install these license files are described below.

To license an Adapter:
1. Stop the master:
   - Windows:
     a. Click on **Start** and select **All Programs>Tidal Workload Automation >Scheduler>Service Control Manager**.
     b. Verify that the master is displayed in the **Service** list and click on the **Stop** button to stop the master.
   - UNIX:
     Enter `tesm stop`
2. Create the license file:
   - For a Permanent license, rename your Permanent license file to `master.lic`.
   - For a Demo license, create a file called `demo.lic`, then type the demo code into the `demo.lic` file.
3. Place the file in the `C:\Program Files\TIDAL\Scheduler\Master\config` directory.
4. Restart the master:
   - Windows:
     Click **Start** in the Service Control Manager.
   - UNIX:
     Enter `tesm start`
     The master will read and apply the license when it starts.
5. To validate that the license was applied, select **Registered License** from **Activities** main menu.

Configuring the JD Edwards Adapter

After installation, there are configuration tasks that you might want to perform before using the JD Edwards adapter:

- Configuring the JDE API Before Startup (Recommended), page 12
- Configuring Debug Options for the JD Edwards Adapter, page 12
- Configuring the HTTPS Protocol for the JD Edwards Adapter, page 16

See Configuring service.props, page 45 for details about configuring service.props to control such things as polling, output, and log gathering.
Configuring the JDE API Before Startup (Recommended)

Prior to using the JD Edwards adapter, TWA requires that some specific files on the JDE Server be copied to the TWA Master installation directory and configured in the CLASSPATH. Without this configuration, there are two errors that might occur at Master/adapter startup time:

- **Unable to find the configure file jdelog.properties**
  (printed in the JDEdwards.out file from the JDE API jar Base_JAR.jar)

- **Unable to find class loader, JMXMP connection may not work**
  (logged from JDE API ManagementAgent_JAR.jar)

You can prevent getting these errors at startup time by configuring the JD Edwards adapter prior to startup as described below.

**To configure the JD Edwards API prior to startup**

1. Login to the JDE server.
2. Navigate to C:\JDEdwards\E900\DDP\system\classes.
3. Copy the files jdelog.properties and jmxremote_optional.jar to your local directory (for example: c:\temp\) where TWA Master is installed.
4. Login to the system where the Master is installed.
5. Set the CLASSPATH for your machine type:
   - For Windows, change the CLASSPATH in environment variables to point jdelog.properties and jmxremote_optional.jar files. Your class path should look like this:
     ```
     %CLASSPATH%;C:\temp\;C:\temp\jmxremote_optional.jar;
     ```
     where C:\temp is the location of the files you copied in step 3.
   - For Linux, use this command to set the CLASSPATH:
     ```bash
     export CLASSPATH=$CLASSPATH:/opt/JDE:/opt/JDE/jmxremote_optional.jar
     ```
6. Restart the TWA Master.
7. To validate that the configuration worked, check for the **Unable to find the configure file jdelog.properties** error in the log file JDEdwardsService.out.

**Note:** Please let the technical support know if you get errors at startup after performing this configuration.

Configuring Debug Options for the JD Edwards Adapter

When defining a connection or a job using the JD Edwards adapter, the options below can be used to assist in debugging:

- Connection Definition Debug Options, page 12
- Job Definition Debug Options, page 13

Connection Definition Debug Options

Two JDE Connection definition tabs can be used to configure debugging:

- Options
Overrides

JDE Connection Definition/Options Tab

**DEBUG** – This parameter needs to be added to the connection definition Options tab. It turns the debugging function on or off. When set to ON, diagnostic data is added to the adapter log and job output. You may be asked to turn this option on when working with Technical Support to investigate an issue.

![Configuration Parameter Definition](image)

JDE Connection Definition/Overrides Tab

To select and set the following two values, the **Overrides Enabled** check box needs to be checked.

- **Include jde.log and jdedebug.log in output** – Optionally select this check box to include the text from both the log and debug log for the UBE process.
- **Debug level** – Select the up arrow button or down arrow button to set the debug level. Valid values are 0 to 6, 6 being the highest.

![Connection Definition (Create Mode)](image)

Job Definition Debug Options

Three JDE Job Definition tabs can be used to configure debugging:

- Options
- Output
- Debug
JDE Job Definition/Options Tab

**Debug level** – Click the up or down arrow buttons to set the UBE debug level. Valid values are 0 to 6, 6 being the highest.

![JDE Job Definition/Options Tab Diagram](image)

JDE Job Definition/Output Tab

The jde.log and jdedebug.log can be enabled in job definition screen also. To include the logs, the connection must be setup with a UNC and/or FTP path so that adapter can access these files.

If the jde.log and jdedebug.log is enabled in connection or job definition then the logs would be included in the output summary along with the job output in JAC.

If the ** Overrides Enabled** check box is checked in the connection definition, then the connection level value takes precedence.
JDE Job Definition/Debug Tab

If the DEBUG parameter is set to ON in the JDE Connection Definition (see JDE Connection Definition/Options Tab, page 13), the job definition debug tab shows the data of UBE in XML format. This page is typically used by Technical Support to assist with problem resolution.
Configuring the HTTPS Protocol for the JD Edwards Adapter

It is recommended that JD Edwards Web servers be configured to use SSL via the HTTPS protocol for Data Services/Data Integrator. If your environment is configured to use HTTP, you can skip this section.

For complete instructions on configuring JD Edwards servers to use the HTTP or HTTPS protocol, refer to the JD Edwards documentation that ships with the product.

Obtain Security Certificates

From a Windows desktop, you can obtain a security certificates for each target JD Edwards server using the Microsoft Internet Explorer Certificate Cache.

**Note:** Although other procedures are available for obtaining the required certificates, the procedure below can be performed from your Windows desktop.

**Note:** You need to carry out the following instructions only if your server certificate is generated in-house (that is, self-signed) or if your server certificate is signed by a Certification Authority that is not trusted by the version of Java you are using. Alternatively, if your adapter connection fails by reporting the error “unable to find valid certification path to requested target” you need to carry out the following instructions.

**To obtain target JD Edwards server security certificates**

1. Open the Internet Explorer browser and navigate to the following dispatch URL (replacing the server name and port as it applies to your environment).

   https://<adminHost:adminPort>/admin/servlet/webservices

   where adminHost is where the Data Integrator Administrator is installed and adminPort is the port the Data Integrator Administrator is listening on.

   A Security Alert message displays. If not, click on the lock icon that appears on the URL box.

2. Click View Certificate to open the Certificate dialog.
3. Click **Install Certificate**.

4. On the **Certificate Import Wizard Welcome** panel, click **Next**.

5. On the **Certificate Store** panel, use the default option **Automatically select the certificate store based on the type of certificate** and click **Next**.

6. On the **Completing Certificate Import Wizard** panel, click **Finish**.

7. If a **Security Warning** message displays informing you that you are about to install a certificate from a certification authority, click **Yes** to continue with the certificate installation.

   A message stating *The import was successful* displays.

8. Click **OK** to close the message and return to the **Certificate** dialog.

9. Click **OK** on the **Certificate** dialog. You can close your browser now.

10. Repeat the process for each JD Edwards server that you want to connect to with the JD Edwards Adapter.

### Export Security Certificates

After you have obtained the security certificates for the target servers, you must export them from the Internet Explorer cache to a local directory.

**To export the cached certificates to a local directory**

1. On the local computer, create the following directory for the certificates:

   ```
   C:\JDE-Certs
   ```

2. In Internet Explorer, select **Tools>Internet Options**.

3. On the **Internet Options** dialog, select the **Content** tab.

4. In the Certificates area, click **Certificates**.

5. On the **Certificates** dialog, select the **Trusted Root Certification Authorities** tab to display the list of trusted certificates. This list should contain the certificates for the target servers that were obtained in the previous procedure (see Obtain Security Certificates, page 16).

6. Scroll through the list of certificates to find the certificates.

7. Perform the following procedure for each target server certificate:
   
   a. Select the certificate and click **Export** to launch the Certificate Export Wizard.

   b. On the **Welcome** panel, click **Next**.

   c. On the **Export File Format** panel, use the default option DER encoded binary X.509 (.CER) and click **Next**.

   d. On the **File To Export** panel, enter the complete path to the **JDE-Certs** directory and a unique name for the certificate:

   ```
   C:\JDE-Certs\servername.cer
   ```

   e. Click **Next**.

   f. On the **Completing the Certificate Export Wizard** panel, click **Finish** to complete the export.

   A message stating *The export was successful* displays.
g. Click OK to close the message box.

8. After all target server certificates have been exported, click Close to exit the Certificates dialog.

9. Click OK to close the Internet Options dialog.

Import Target Server Certificates Into a Java Keystore

You must now import the target server certificates into a local Java keystore.

Note: These instructions assume that a JRE or JDK is in your system PATH.

To import certificates into a Java keystore

1. Open a Windows Command Prompt window.

2. Change to the directory where the certificates are stored by entering the following commands:
   
c:  
cd \JDE-Certs

3. Use the Java keytool utility to import a certificate. The following syntax is used:
   
   keytool -import -file <certificate-filename> -alias <servername>-keystore <your_trusted_keystore.keystore-filename>
   
   For example:
   
   C:\JDE-Certs\keytool -import -file sdkpubs01.crt -alias sdkpubs01 -keystore BOXI.keystore

4. When prompted to create a password for the keystore, enter a password at the prompt. The keystore utility displays the certificate information.

5. At the Trust this certificate? [no] prompt, type yes and press Enter. The certificate is imported into the <your_trusted_keystore>.keystore keystore and the following message displays:
   
   Certificate was added to keystore

6. Repeat this procedure for each target server.

7. Navigate to the following folder where the TWA JD Edwards adapter is installed and create a new directory named config:
   
   <install dir>\master\services\{88EBA24D-7B9A-4EAC-855B-F29D99CE37E9}\config

8. Create a text file named service.props in the \config directory located under the Adapter’s GUID directory if it doesn’t already exist.

9. Open the service.props text file and add the following line:
   
   Keystore=c:\\JDE-Certs\\<your_trusted_keystore>.keystore
   
   (Note the use of escaped backslashes for Windows directories).

See Configuring service.props, page 45 for information about general and JD Edwards-specific properties that can be set to control logging and connections for the JD Edwards Adapter. Configuring service.props, page 45

Securing the JD Edwards Adapter

There are two types of users associated with the JD Edwards Adapter, Runtime Users and Schedulers. You maintain definitions for both types of users from the Users pane.
Runtime Users

Runtime users in the context of JD Edwards jobs represent those users and passwords required for authentication. JD Edwards operations require authentication against a valid JD Edwards user as defined by a JD Edwards administrator.

Schedulers

Schedulers are those users who will define and/or manage JD Edwards jobs. There are three aspects of a user profile that grant and/or limit access to scheduling jobs that affect JD Edwards:

- Security policy that grants or denies add, edit, delete and view capabilities for JD Edwards jobs.
- Authorized runtime user list that grants or denies access to specific authentication accounts for use with JD Edwards jobs.
- Authorized agent list that grants or denies access to specific JD Edwards Adapter connections for use when defining JD Edwards jobs.

Defining Runtime Users

To define a runtime user:

1. From the Navigator pane, expand the Administration node and select Runtime Users to display the defined users.

2. Right-click Runtime Users and select Add Runtime User from the context menu (Insert mode). You can also right-click to select an existing user in the Users pane and select Edit Runtime Users from the shortcut menu (Edit mode).

   The User Definition dialog displays.

3. If this is a new user definition, enter the new user name in the User/Group Name field.

4. For documentation, enter the Full Name or description associated with this user.

5. In the Domain field, select a Windows domain associated with the user account required for authentication, if necessary.

6. To define this user as a runtime user for JD Edwards jobs, click Add on the Passwords tab.
The Change Password dialog displays.

7. Select JDEdwards from the Password Type list.

8. Enter a password (along with confirmation) in the Password/Confirm Password fields.

Only those users with a password specified for JD Edwards will be available for use with JD Edwards jobs. If you want the TWA to use FTP to get JDE log and debug log files or save local copies of PDF output, you will also need to provide an FTP password in the row for Windows/FTP Password. You can also create a separate runtime user definition for use with the FTP function. See the Use FTP option on the Options tab of the JDE Adapter Connection Definition dialog in Step 17.

The password cannot be blank.

9. Click OK to return to the User Definition dialog.

The new password record displays on the Passwords tab.

10. Click OK to add or save the user record in the TWA database.

Note: For more information about the User Definition dialog, see the “Users” chapter in your Tidal Workload Automation User Guide.

Authorizing Schedulers to Work With JD Edwards Jobs

Access to the JD Edwards scheduling environment is controlled by assigning JD Edwards functions in a security policy. The scheduling administrator should create a new security policy or edit an existing policy in TWA as described in the "Users" chapter of the User Guide, that in addition to the normal user privileges, includes the capability to add and/or edit JD Edwards jobs. A user whose assigned security policy does not include JD Edwards privileges cannot create and/or run JD Edwards jobs.

To grant JD Edwards access privileges:

1. In the Navigator pane, select Security Policies to display the Security Policies pane.

2. Select a security policy for the JD Edwards job privileges and double-click on it to display its Security Policy Definition dialog.

3. In the Security Policy Name field, enter a name for the policy.

4. On the Functions page, scroll down the list of function categories and double-click on the JDEdwards Jobs category to display the available functions.
5. Double-click the category row to display the **JDEdwards Jobs** dialog and select the desired job privileges then click **OK**.

A check mark appears next to the **JDEdwards Jobs** function category indicating that one or more functions are selected within the category.

If needed, different security policies with varying authorized functions can be created to provide different levels of access for a variety of users.

**To define a TWA user to work with JD Edwards jobs:**

1. From the **Navigator** pane, expand the **Administration** node and select **Interactive Users** to display the defined users.

2. Right-click **Interactive Users** and select **Add Interactive User** from the context menu (Insert mode). You can also right-click a user in the **Interactive Users** pane and select **Edit Interactive User** from the shortcut menu (Edit mode).

   The **User Definition** dialog displays.

3. If this is a new user definition, enter the new user name in the **User/Group Name** field.

4. For documentation, enter the **Full Name** or description associated with this user.
5. In the **Domain** field, select a Windows domain associated with the user account required for authentication, if necessary.

6. On the **Security** page, select the **Other** option and then select the security policy that includes authorization for JD Edwards jobs.

7. Click the **Runtime Users** tab.

8. Select the JD Edwards users that this scheduling user may use for JD Edwards authentication in JD Edwards jobs.

9. Click the **Agents** tab.

10. Click the check boxes for the JD Edwards connections that this scheduling user can access when scheduling jobs.

11. Click **OK** to save the user definition.

### Defining a JD Edwards Adapter Connection

You must create one or more JD Edwards connections before TWA can run your JD Edwards jobs. These connections also must be licensed before TWA can use them. A connection is created using the **Connection Definition** dialog.

### Adding a JD Edwards Adapter Connection

**To add a connection:**

1. From the **Navigator** pane, navigate to **Administration>Connections** to display the **Connections** pane.

2. Right-click **Connections** and select **Add Connection>JD Edwards Adapter** from the context menu.

The **JDEdwards Adapter Connection Definition** dialog displays.
3. On the **General** page, enter a name for the new connection in the **Name** field.

4. In the **Job Limit** field, select the maximum number of concurrent active processes that TWA should submit to the JD Edwards server at one time.

5. From the **Default Runtime User** drop-down list, you have the option to select the name of a default user for JD Edwards jobs.

The runtime user is used for authentication with JD Edwards to authorize scheduled operations.

Only authorized users that have been defined with JD Edwards passwords display in this list. The selected user is automatically supplied as the default runtime user in a new TWA JD Edwards job definition.

6. Click the **JD Edwards Connection** tab.

7. In the **Enterprise Server** field, enter the name of your JD Edwards server.

8. In the **Environment** field, enter the environment that you are connecting to.

9. In the **JDENET Port** field, enter the JDENet listener port.
To determine the correct port to enter, see the following section of the *JDE.INI* configuration file on the Enterprise Server:

```ini
[JDENET]
serviceNameListen=6014
serviceNameConnect=6014
```

10. From the User list, select the associated Runtime User for JD Edwards to be used for connecting to JD Edwards.

This is a persistent user connection to JD Edwards that is only used for administration and monitoring and for jobs with a matching runtime user. Jobs with a different runtime user specified will create additional temporary connections.

11. In the Role field, enter a role associated with the user.

12. Click the Test button to test the connection.

13. Click the Overrides tab.

The Connection Definition – Overrides tab dialog displays.

14. Select the Overrides Enabled check box if you want to override values that apply to all jobs that use this connection.

This can be useful to temporarily debug an issue or to delete jobs while you are running tests.

15. Complete the following information in the JD Edwards EnterpriseOne Global Overrides section:

- **Batch Server** – This field is read-only
- **Queue** – Select a queue from the drop-down menu. If blank, the default queue for the UBE is used.
- **Delete job upon normal completion** – Optionally select this check box to delete the job and its output when the job completes normally.
- **Include jde.log and jdedebug.log in output** – Optionally select this check box to include the text from both the log and debug log for the UBE process.
- **Debug level** – Select the up arrow button or down arrow button to set the debug level.
Valid values are 0 to 6.

- **Printer(s)** - Select the printers that you want to use.
- **Print immediately** - Select to send output to the chosen printer(s).

16. Click the **Options** tab to configure parameters for this connection.

The **Connection Definition – Options** tab dialog displays.

17. Complete the following information in the **Output Handling (by Scheduler)** section:

- **PrintQueue Path** – Enter the path as follows:
  - If you are going to use FTP for job output, the path is an absolute or relative path based on the home directory of the chosen FTP logon. (The FTP server defaults to the batch server for the job.)

  The path needs to point to the environment’s **PrintQueue** folder where PDF output and logs are created. The adapter retrieves files that follow the prefix naming convention `<UBE>_<Version>_<JobNo>_PDF`.

  - If you are not going to use FTP for job output, enter a valid mapped drive letter or a UNC path.

  The TWA master service account needs to have access to the mapped drive or UNC path.

  Enter the path to the output file from the perspective of the TWA master. For example, if the **PrintQueue** folder is on a machine mapped on the TWA master as the O: drive, but mapped on JD Edwards as the H: drive, the path entered here should use the O: designation. You can use UNC conventions and mapped drives to specify locations on remote machines. If the batch server is not running under Windows you need to have an NFS mount so that the Windows Scheduling master has access to the files, although it is recommended that you choose to use FTP in this case.

  The absolute pathname is needed. Provide the full pathname which includes the root directory and the descending series of subdirectories leading to the resulting **PrintQueue** folder.

- **Use FTP** – Select if the TWA should FTP the JDEdwards job output rather than reading the file directly over the network.

- **FTP User** – Select an FTP user from the drop-down menu.
To add or edit parameters, select the parameter and click **Add** or **Edit** to display the **Configuration Parameter Definition** dialog.

The following parameters are available:

- **DEBUG** – Turns the debugging function on or off. When set to ON, diagnostic data is added to the adapter log and job output. You may be asked to turn this option on when working with technical support to investigate an issue.

  The **Debug** tab only shows in the **Job Definition** dialog if this option is enabled. For more information, see Step 23.

- **JDELAUNCHDELAY** – The minimum number of milliseconds to delay between submitting UBE requests to the server. The JDE kernel sometimes has trouble if multiple UBEs are launched simultaneously. 100 ms is recommended.

18. Click **OK** to save the new JD Edwards connection.

The configured connection displays in the **Connections** pane.

The status light next to the connection indicates whether the TWA Master is connected to the JD Edwards server. If the light is green, the JD Edwards server is connected.
A red light indicates that the master cannot connect to the JD Edwards server. JD Edwards jobs will not be submitted without a connection to the JD Edwards server. You can only define jobs from the Client if the connection light is green.

If the light is red, you can test the connection to determine the problem. Right-click the connection and select Test from the context menu. A message displays on the Test JD Edwards Connection dialog describing the problem. Or go to Operator>Logs to look for error messages associated with this connection.
This chapter describes how to use the JD Edwards Adapter with TWA which entails:

- Defining JD Edwards Jobs, page 29
- Monitoring JD Edwards Job Activity, page 36
- Defining JD Edwards Events, page 40
- Controlling Adapter and Agent Jobs, page 42

Defining JD Edwards Jobs

This section provides instructions for defining a JD Edwards job in TWA and describes the various options that can be included in the jobs.

JD Edwards Job Definition

You define jobs to run JD Edwards batch versions (consisting of UBE programs and corresponding collections of data selection and processing options). This section describes the basic steps for defining a JD Edwards job.

To define a JD Edwards job:

1. In the Navigator pane, select Definitions>Jobs to display the Jobs pane.
2. Right-click Jobs and select Add>JDE Job from the context menu.
   The JD Edwards Job Definition dialog displays.
The **Run** tab opens first when defining a new JD Edwards job. You must first specify a name for the job, the JD Edwards adapter connection that will be used for the job, and a valid runtime user who has the appropriate JD Edwards authority for the report being scheduled.

3. In the upper portion of the dialog, specify the following information to describe the job:
   - **Job Name** – Enter a name that describes the job.
   - **Job Class** – If you want to assign a defined job class to this job, select it from the drop-down list. This field is optional.
   - **Owner** – Select the owner of the job. The owner can be an individual TWA user or a workgroup (recommended).
   - **Parent Group** – If this job exists under a parent group, select the name of the parent group from the drop-down list. All properties in the **Agent Information** section are inherited from its parent job group.

4. Specify the following connection information in the **Agent/Adapter Information** section:
   - **Agent/Adapter Name** – Select the JD Edwards adapter connection to be used for this job from the drop-down list.
   - **Agent List Name** – Select a list for broadcasting the job to multiple servers or load balancing across servers.
   - **Runtime User** – Select a valid runtime user with the appropriate JD Edwards authority for the job from the drop-down list.

5. Specify the appropriate **Tracking** and **Duration** information for the job.

   Refer to the *Tidal Workload Automation User Guide* for information on these options.

6. Click the **JDE Job Definition** tab.
7. To search for a UBE using the Find field located below the Browser tab, complete the following steps:

   a. In the Find field, specify the UBE program name or use wildcards to browse through a list of matching UBE names.

   b. Click Find.

   c. After locating the UBE and corresponding version you want to schedule, double-click the entry or right-click and use the Select menu option.

   The JDE Task Details section is populated with the program and version selected. This is read only.

   d. To improve performance, the adapter creates a cache of all UBEs and versions when it connects. If a UBE or version is added after this point, it may not display when Find is used. Use the Refresh Cache button to update the list for a specific UBE from the JDE database. This option only updates the matching UBE specified in the Find field. The button is disabled if a wildcard is specified.

8. Click the Options subtab.
This tab defines the queue, debug level, and tag that can be included in events.

9. Complete the following information on this dialog:
   - **Batch Server** – Displays the batch server the job to which the job is submitted.
     This value is read-only.
   - **Queue** – Select a batch from the Queue drop-down menu. The default is to use the queue currently associated with the UBE.
   - **Debug level** – Click the up or down arrow buttons to set the UBE debug level.
     Valid values are 0 to 6.
   - **Event Tag** – This field allows you to associate an identifier that you can refer to in a JD Edwards event.
     For example, if your event sends an email about a new report, you can insert the event tag as a variable in the email’s subject line or body text. You can use a variable in this field, such as a local group variable that identifies the customer or other data selection to which this run applies.
     Place the cursor in the field and click Variables to enter a variable to be replaced at runtime.

10. Click the **Output** subtab to specify formatting, saving, and printing options.
11. In the **Format** section, check the **Create CSV** check box if you want to create a CSV output file in addition to the PDF file that JD Edwards always creates.

12. In the **Include** section, select the check boxes for the output that you want to include in the TWA’s output displayed on the **Output** tab of the **Job Details** dialog from the console as described in To monitor job activity:, page 36.

   The **Output** tab of the **Job Details** dialog displays job summary data along with jde.log and jdedebug.log, if configured. An option to display only the PDF name is available so the output can be used as a variable in downstream jobs.

   To include log files, the connection must be set up with a UNC and/or FTP path so the adapter can access these files.

13. (Optional) In the **Save to local folder** field, enter the full local path from the master’s perspective where you want the output to be saved.

14. (Optional) In the **Printer(s)** section, select the **Print immediately** check box and select the check box next to each printer that you want to use.

15. (Optional) Select the **Delete job upon normal completion** check box.

   This option not only deletes the output on the server, but deletes the job record from JDE’s F986110 table.

16. Click the **Data Selection** subtab to override data selection clauses.
17. To edit the override value, double-click the selected row to display the **Data Selection Override Values** dialog.

18. To override the operator, select an operator from the **Operator** list.

   The operator values are as follows:
   
   - **EQ** - Equal
   - **NE** - Not equal
   - **GT** - Greater than
- **GE** - Greater than or equal to
- **LT** - Less than
- **LE** - Less than or equal to
- **IN** - In a set of values; requires more than one value separated with commas
- **NI** - Not in a set of values; requires more than one value separated with commas
- **BW** - Between a range of values; requires exactly two values, separated with a comma
- **NB** - Not between a range of values; requires exactly two values, separated with a comma

19. In the **Override Value(s)** field, enter a override value. Optionally, click **Variables** to insert a variable to be replaced with a value at runtime.

   An empty value in the **Override(s)** field indicates that no override value will be used at time of submission. To explicitly override a value with an empty string, the special variable, `<Blank>`, must be entered into the field.

20. Click the **Processing Options** subtab to override processing options.

21. To edit the override value, double-click the selected row to display the **Data Processing Override Values** dialog.
22. In the **Override Value** field, enter a override value. Optionally, click **Variables** to insert a variable to be replaced with a value at runtime.

An empty value in the **Override(s)** field indicates that no override value will be used at time of submission. To explicitly override a value with an empty string, the special variable, `<Blank>`, must be entered into the field.

23. Click the **Debug** subtab to aid in troubleshooting the UBE version’s associated data in XML format.

This page is typically used by support to assist with problem resolution.

---

**Note:** The Debug tab only shows if DEBUG=ON is specified on the Options tab of the Connection Definition dialog. The **Debug** tab displays the XML definition associated with the selected UBE and version.

---

**Monitoring JD Edwards Job Activity**

As JD Edwards tasks run as prescheduled or event-based jobs, you can monitor the jobs as you would any other type of job in TWA using the Job Details dialog. You can also use Business Views to monitor job activity and view when the jobs are active. (See the Tidal Workload Automation User Guide for instructions on using Business Views.)

**To monitor job activity:**

1. In the **Navigator** pane, select **Operations>Job Activity** to display the **Job Activity** pane.

2. Right-click to select a job and choose **Details** from the context menu.

The **Job Details** dialog displays.
The Status page displays by default. You can view the status of the job, the start and end time, how long it ran, and how it was scheduled. The external ID is the JDEdwards job number.

3. Click the Output tab to view a task summary after the job completes.

If you chose to include the jde log and/or jde debug log for the UBE, that will be shown below in the summary.

4. Click the JDE tab to view job definition details and the variables that are used when the job was submitted and to make any changes for a specific job before it is run.

5. Click the Run Info tab to view additional details about the job.

You can also view information about the runtime status while the job is running, including any runtime value overrides that are in affect.

You can also view the logs in real time if the connection is configured to access the logs.
6. Click the **Data Selection** subtab to view the data selection values that were in effect during this run.

7. Click the **Processing Options** subtab to view the processing options that were in effect during this run.
8. Click the **Logs** subtab to view the log generated during the run.

   If the job has not completed yet, the log may not be complete.

9. Click the **Debug Log** tab to view the debug log associated with the job, if any.

   Because debug logs can be very large, only the last part of the file is shown, but this can be very useful to see what a job is doing while it is running.
When you have finished viewing the job activity details, click OK to close the dialog.

Defining JD Edwards Events

Using the JD Edwards Adapter, you can define events that can be used for alerting and invoking an automated response through email and/or inserting additional jobs into the schedule. The Event Definition dialog is displayed when you add or edit a JD Edwards event. TWA can monitor events and then take one or more actions when the event trigger occurs. You must configure a calendar for the event from the Schedule tab to schedule when the event is enabled, which is when monitoring will occur. If needed, you can configure the monitor to operate only during certain time periods or leave the monitor in operation at all times.

JD Edwards Event Definition

To define a JD Edwards event:

1. In the Navigator pane, navigate to Definitions>Events>JDE.

2. Right-click JDE and select Add JD Edwards Event from the context menu.

   The JDE Event Definition dialog displays.

3. Enter a name for the event in the Event Name field.

4. Select an owner from the Owner drop-down list.

5. In the Monitor area, specify the following information:

   - Connection - Select the JDEdwards connection from the drop-down list.

   This is the connection that will be monitored for the specified event.
— **Event Trigger** – Select the condition that causes TWA to trigger the associated actions. Currently, the only event trigger is **UBE Processing Complete**. Monitoring is only for jobs initiated by the TWA.

An event can be triggered upon UBE completion to pass JD Edwards job specific variables to any scheduling action, such as setting variables, submitting other jobs, and sending e-mails and alerts.

— **Program (UBE)** – Enter the batch program that you want to monitor. You can use regular expression wildcards in this field.

— **Batch Version** – Optionally enter the batch version. You can use regular expression wildcards in this field.

**Note:** The other tabs on the JDE Event Definition dialog are general event configuration options and are not specific to the JD Edwards Adapter. Any action that is available in TWA, such as sending email, generating alerts, sending SNMP traps, setting variables, and adding jobs, is available as a response to a JD Edwards event.

6. Click **OK** to save the event definition.

**Define an Action for an Event**

You can add any action for a JD Edwards event that is available in TWA.

**For example, to define an email action for a JD Edwards event:**

1. In the **Navigator** pane, select **Definitions>Events>JDE** to display the **JDE Event Definition** dialog.

2. Right-click **JDEdwards Events** and select **Edit Event** from the context menu to display the **JDEdwards Event Definition** dialog.

3. Click the **Associated Actions** tab.

4. In the **Available Actions** section, right-click and select **Add Mail Action**.

The **Action Definition: E-Mail** dialog displays.
5. Complete the required fields on the **Action Definition** dialog and click **OK**.

### Controlling Adapter and Agent Jobs

Scheduler provides the following job control capabilities for the process currently running or the job as a whole:

- **Holding a Job**—Hold a job waiting to run.
- **Aborting a Job**—Abort an active job.
- **Rerunning a Job**—Rerun a job that completed.
- **Making One Time Changes to an Adapter or Agent Job Instance**—Make last minute changes to a job.
- **Deleting a Job Instance before It Has Run**—Delete a job instance before it has run.

### Holding a Job

Adapter/agent jobs are held in the same way as any other Scheduler jobs.

Adapter/agent jobs can only be held before they are launched. Once a job reaches the Adapter/Agent system, it cannot be held or suspended.

The JD Edwards event variables that are available with the JDEdwards Adapter are shown below, and only apply when the action is associated with a JD Edwards event.
To hold a job:
1. From the Job Activity pane, right-click on the job.
2. Select Job Control>Hold/Stop.

Aborting a Job

Adapter/agent jobs are aborted in the same way as any other Scheduler jobs.

To abort a job:
1. From the Job Activity pane, right-click on the job.
2. Select Job Control>Cancel/Abort.

Rerunning a Job

On occasion, you may need to rerun an Adapter/Agent job. You can override parameter values first, if necessary, from the Adapter/Agent tab.

To rerun a job:
1. From the Job Activity pane, right-click the Adapter/Agent job you need to rerun.
2. Select Job Control>Rerun option from the context menu.

Making One Time Changes to an Adapter or Agent Job Instance

Prior to a run or rerun, you can edit data on the specific Adapter/Agent tab. To ensure that there is an opportunity to edit the job prior to its run, you can set the Require operator release option on the Options tab in the Adapter Job Definition dialog. Use this function to make changes to an Adapter job after it enters Waiting on Operator status as described in the following procedure.

To make last minute changes:
1. From the Job Activity pane, double-click the Adapter/Agent job to display the Job Details dialog.
2. Click the Adapter tab.
3. Make the desired changes to the job and click OK to close the Job Details dialog.
4. If this job is Waiting on Operator, perform one of the following tasks:
   - To release the job, select Job Control->Release.
   - To rerun the job with changes, select Job Control->Rerun.

Deleting a Job Instance before It Has Run

Adapter/Agent job instances are deleted in the same way as any other Scheduler job.

Deleting a job from the Job Activity pane removes the job from the Scheduler job activity only. The original definition is left in tact.

To delete a job instance:
1. From the Job Activity pane, right-click the Adapter/Agent job to be deleted.
2. Select Remove Job(s) From Schedule.
4

Configuring service.props

About Configuring service.props

The service.props file is used to configure adapter behavior. service.props is located in the \config directory located under the Adapter’s GUID directory. You can create both the directory and file if it does not yet exist. Properties that can be specified in service.props control things like logging and connection configuration. Many of the properties are specific to certain adapters; others are common across all adapters.

service.props Properties

The table below lists many of the parameters that can be specified in service.props. Some properties apply to all adapters (shaded in the table) and some properties are adapter-specific as indicated by the Applicable Adapter(s) column. The properties are listed in alphabetical order.

<table>
<thead>
<tr>
<th>Property</th>
<th>Applicable Adapter(s)</th>
<th>Default</th>
<th>What It Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>BYPASS_SEC_VALIDATION</td>
<td>Oracle Apps</td>
<td>N</td>
<td>If set to Y, the secondary user validation is bypassed. If not, secondary user validation is performed.</td>
</tr>
<tr>
<td>CLASSPATH</td>
<td>All</td>
<td>&lt;none&gt;</td>
<td>(Optional) – The path to the JDBC driver. If the default CLASSPATH used when the Adapter process is started does not include an appropriate JDBC driver jar required to connect to the PowerCenter Repository Database, you will need to specify this service.props configuration.</td>
</tr>
<tr>
<td>CONN_SYNC</td>
<td>Informatica, Oracle Apps, SAP</td>
<td>N</td>
<td>Setting this flag to Y allows synchronous connections without overloading the RDOOnly Thread. If set to N, the adapter might stop trying to reconnect after an outage or downtime.</td>
</tr>
<tr>
<td>DISCONN_ON_LOSTCONN</td>
<td>Informatica</td>
<td>N</td>
<td>Setting this flag to Y avoids an unnecessary logout call to the Informatica server when the connection is lost. This logout call usually hangs.</td>
</tr>
<tr>
<td>EnableDynamicPollingInterval</td>
<td>All</td>
<td>N</td>
<td>Use to avoid frequent polling on long-running jobs. When set to Y in service.props of a particular adapter, these properties are enabled: MinDynamicPollInterval–Minimum value should be 5 seconds. MaxDynamicPollIntervalInMin–Maximum value should be 5 minutes. PercentOfEstDuration–Default value is 5.</td>
</tr>
<tr>
<td>HADOOP_JAVA_HOME</td>
<td>Sqoop</td>
<td>&lt;none&gt;</td>
<td>If the Java version used in the Hadoop environment is lower than Java 8, then install the same lower JDK version in the in the Master and include the path of the JDK in this property.</td>
</tr>
</tbody>
</table>
**Table 4-1**

<table>
<thead>
<tr>
<th>Property</th>
<th>Applicable Adapter(s)</th>
<th>Default</th>
<th>What It Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGNORE_CODES</td>
<td>Informatica</td>
<td>&lt;none&gt;</td>
<td>This parameter can be set in service.props, job configuration and connection configuration parameters. The order of precedence is service.props (applicable for all jobs running in all connections), job level (only for that particular job), and connection (applicable for all jobs in the connection). This parameter is used to specify Informatica-specific error codes, separated by commas (,), that you want to ignore while running a job.</td>
</tr>
<tr>
<td>IGNORESUBREQ</td>
<td>Oracle Apps</td>
<td>N</td>
<td>Y or N. Setting this flag to Y stops huge job xml file transfers back and forth between the adapter and the AdapterHost during polls when a single request set has multiple sub-requests of more than 100. The default value is N or empty.</td>
</tr>
<tr>
<td>kerbkdc</td>
<td>MapReduce</td>
<td>&lt;none&gt;</td>
<td>If the Hadoop cluster is Kerberos secured, use this value to specify the KDC Server. For example, kerbkdc=172.25.6.112</td>
</tr>
<tr>
<td>kerbrealm</td>
<td>MapReduce</td>
<td>&lt;none&gt;</td>
<td>If the Hadoop cluster is Kerberos secured, use this value to specify the Kerberos Realm. For example, kerbrealm=TIDALSOFT.LOCAL</td>
</tr>
<tr>
<td>Keystore</td>
<td>BusinessObjects, BusinessObjects BI, BusinessObjects DS, Cognos, JD Edwards, Oracle Applications, UCS Manager, VMware, Web Service</td>
<td>&lt;none&gt;</td>
<td>Specify &lt;br&gt;Keystore=c:&lt;adapter_certificate_directory&gt;&lt;your_trusted_keystore&gt;.keystore &lt;br&gt;when importing certificates into a Java keystore.</td>
</tr>
<tr>
<td>LAUNCH_DELAY (in milliseconds)</td>
<td>Informatica</td>
<td>&lt;none&gt;</td>
<td>This parameter can be set in service.props, job configuration and connection configuration parameters. The order of precedence is service.props (applicable for all jobs running in all connections), job level (only for that particular job), and connection (applicable for all jobs in the connection). If a non-zero value is set for this parameter, then the jobs are delayed for the specified number of milliseconds before being submitted to Informatica.</td>
</tr>
<tr>
<td>LoginConfig</td>
<td>BusinessObjects BI Platform, BusinessObjects Data Services</td>
<td>&lt;none&gt;</td>
<td>Specifies the location of the login configuration if using WinAD or LDAP authentication. For example: &lt;br&gt;LoginConfig=c:\windows\bscLogin.conf &lt;br&gt;where “c:\windows\bscLogin.conf” is the location of the login configuration information. Note the use of \ if this is a Windows location.</td>
</tr>
<tr>
<td>Property</td>
<td>Applicable Adapter(s)</td>
<td>Default</td>
<td>What It Controls</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------</td>
<td>-----------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>MaxLogFiles</td>
<td>Informatica, JDBC, PeopleSoft</td>
<td>50</td>
<td>(Optional) – Number of logs to retain.</td>
</tr>
<tr>
<td>OUTPUT_ASYNC_LOGOUT</td>
<td>Informatica</td>
<td>N</td>
<td>Setting this flag to Y avoids jobs getting stuck in Gathering Output status.</td>
</tr>
<tr>
<td>OUTPUT_SYNC</td>
<td>All</td>
<td>Y</td>
<td>Enables concurrent output gathering on a connection. To enable this feature, set the value to N.</td>
</tr>
<tr>
<td>POLL_SYNC</td>
<td>All</td>
<td>Y</td>
<td>Enables concurrent polling on connections of the same type. This is helpful when there is a heavily load on one connection of an adapter. The heavily loaded connection will not affect the other adapter connection. To enable this feature, set the value to N.</td>
</tr>
<tr>
<td>QUERY_TIMEOUT</td>
<td>Oracle Apps</td>
<td>N</td>
<td>Y or N. If set to Y, the timeout value defined using the parameter QUERY_TIMEOUT_VALUE is applied to the SQL queries. Default value is N or empty.</td>
</tr>
<tr>
<td>QUERY_TIMEOUT_VALUE</td>
<td>Oracle Apps</td>
<td>unset</td>
<td>The time period in seconds that SQL queries wait before timeout. If 0 or not set, there is no timeout.</td>
</tr>
<tr>
<td>READPCHAINLOG</td>
<td>SAP</td>
<td>Y</td>
<td>Used to control the log gathering in SAP Process Chain jobs. This property depends on the Summary Only check box of the job definition Options tab.</td>
</tr>
<tr>
<td>SCANFOR_SESSIONSTATS</td>
<td>Informatica</td>
<td>Y</td>
<td>Y or N – Set this parameter to N to turn off the default behavior of Informatica jobs collecting the session statistics during the job run.</td>
</tr>
<tr>
<td>SCANFOR_SESSIONSTATS_AFTERTWFENDS</td>
<td>Informatica</td>
<td>N</td>
<td>Y or N – Set this parameter to Y to turn off the gathering of session statistics during each poll for the status of Informatica jobs.</td>
</tr>
<tr>
<td>TDLINFA_LOCALE</td>
<td>Informatica</td>
<td>&lt;none&gt;</td>
<td>Points to the Load Manager Library locale directory. See “Configuring the Informatica Adapter” in the Informatica Adapter Guide for how to set this for Windows and Unix environments.</td>
</tr>
<tr>
<td>TDLINFA_REQUESTTIMEOUT</td>
<td>Informatica</td>
<td>&lt;none&gt;</td>
<td>(Optional) – The number of seconds before an API request times out. The default is 120 seconds, if not specified.</td>
</tr>
<tr>
<td>TDLJDBC_LIBPATH</td>
<td>JDBC</td>
<td>&lt;none&gt;</td>
<td>(Windows only, optional) An alternate path to the JDBC library files. The library file path should have been configured given system environment variables. This option is available in case you wish to use an alternate set of libraries and may be helpful for trouble-shooting purposes.</td>
</tr>
<tr>
<td>TDLJDBC_LOCALE</td>
<td>JDBC</td>
<td>&lt;none&gt;</td>
<td>The path to the JDBC locale files.</td>
</tr>
<tr>
<td>TRANSACTION_LOG_BATCH_SIZE</td>
<td>MS SQL</td>
<td>5000</td>
<td>Set this parameter if more than 5000 lines need to be read from the transaction table.</td>
</tr>
<tr>
<td>version_pre898</td>
<td>JD Edwards</td>
<td>N</td>
<td>If running on a JD Edwards server version that is less than 8.9.8, set version_pre898=Y.</td>
</tr>
</tbody>
</table>