

TransactionVision®

TransactionVision Web Application Installation and Configuration Guide *Version 5.0.0*

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Contents

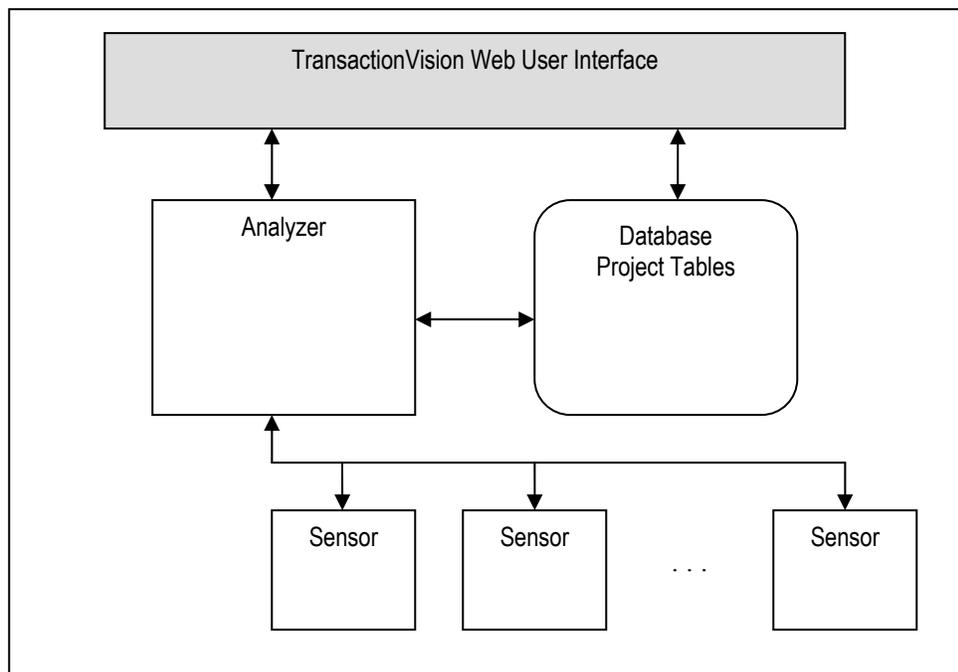
Chapter 1	TransactionVision Web Application Overview.....	1
	Installation Overview	2
	Upgrading from Previous TransactionVision Releases.....	2
	Additional TransactionVision Resources	2
Chapter 2	Installing the Web Application on Distributed Platforms.....	5
	Initial Installation	6
	Upgrade Installation	7
	Installation Files	9
	Uninstalling the Web Application.....	9
Chapter 3	Installing the Web Application on Windows.....	11
	Initial Installation	12
	Upgrade Installation	12
	Modifying the Installation.....	13
	Uninstalling the Web Application.....	15
Chapter 4	Configuring the Web Application for IBM WebSphere.....	17
	Configuration Overview.....	17
	Using TVisionSetupInfo.....	18
	Using TVisionSetup	31
	Additional Procedures for WebSphere Application Server 5.1 Express Edition	38
Chapter 5	Configuring the Web Application for BEA WebLogic.....	39
	Configuration Overview.....	39
	Using TVisionSetupInfo.....	40
	Using TVisionSetup	53

Chapter 6	Configuring Web Application Logging.....	63
	Log Files.....	63
	Circular Logging.....	63
	Trace Logging.....	64
	Using Windows and UNIX System Logs.....	65
Chapter 7	Integrating TransactionVision with Tivoli Enterprise Console.....	67
	TEC Integration Setup.....	67
	Installation and Setup.....	68
Appendix A	Utilities Reference.....	73
	MigrateConfig.....	73
	MigrateDB.....	74
	TVisionSetup.....	75
	TVisionSetupInfo.....	77
Appendix B	Configuration Files.....	79
	JobManager.properties.....	79
	Ldap.properties.....	79
	License.properties.....	83
	Setup.properties.....	83
	StatisticsCache.properties.....	83
	tvision-wl-config.properties.....	84
	tvision-ws-config.properties.....	85
	UI.properties.....	85
Appendix C	TransactionVision Changes to WebSphere Application Server....	87
	JVM System Property Settings.....	87
	JVM Classpath Updates.....	87
	Added Files.....	88
Appendix D	Configuring Application Servers for TransactionVision.....	89
	Configuring WebSphere for TransactionVision.....	89
	Configuring WebLogic for TransactionVision.....	91
Appendix E	LDAP Configuration Scenarios.....	101
	Quick Steps to Get LDAP Up and Running with TransactionVision.....	101
	Add or Integrate TransactionVision to an Existing Set of LDAP Users.....	102

Chapter 1 TransactionVision Web Application Overview

The TransactionVision web application is an enterprise application for IBM WebSphere or BEA WebLogic. It provides the TransactionVision graphical user interface. All interaction takes place through web pages. Users and administrators login to the web user interface through a web browser. The web user interface communicates with the Analyzer to provide data collection configuration information such as communication links and data collection filters. It also connects to project database schemas to display project analysis and report results.

The following diagram shows the relationship of the TransactionVision Web Application to other TransactionVision components:



Installation Overview

The TransactionVision installation consists of the following three TransactionVision packages:

- The Analyzer binaries and configuration files. Install this package on all hosts where you want the Analyzer service to run. For instructions on installing and configuring the Analyzer, see the *TransactionVision Analyzer Installation and Configuration Guide*.
- The TransactionVision Web Application, which consists of WebSphere or WebLogic related files such as the .ear file, JSPs, servlets, etc. Install this package on the hosts that users and administrators will access via web browsers to use and manage TransactionVision. This guide provides instructions for installing the Web Application.
- TransactionVision Sensors. Install these packages on all hosts running applications that you wish to collect information about. For instructions on installing and configuring Sensors, see the *TransactionVision Sensor Installation and Configuration Guide*.

Installation steps vary for the different TransactionVision components on different platforms.

Before installing the Web Application, make sure the systems you are installing on meet the software requirements for TransactionVision. Requirements vary for each package (Sensors, Analyzer, and Web Application). See the TransactionVision Release Notes for detailed software requirements.

Upgrading from Previous TransactionVision Releases

The Java Servlet, JMS and EJB Sensors from TransactionVision 4.2.1 can be used with the TransactionVision 5.0.0 Analyzer. TransactionVision 5.0.0 Sensors may not be used with older versions of the TransactionVision Analyzer.

Additional TransactionVision Resources

Documentation Roadmap

This guide provides instructions for installing and configuring the TransactionVision web user interface. In addition to this guide, the following documents are provided with TransactionVision:

- The *TransactionVision Planning Guide* provides information to help you plan the TransactionVision implementation in your environment.
- The *TransactionVision Analyzer Installation and Configuration Guide* provides instructions for installing and configuring the TransactionVision Analyzer, as well as configuring your database to work with the Analyzer. This file is also available from the TransactionVision Help menu.
- The *TransactionVision Sensor Installation and Configuration Guide* provides instructions for installing and configuring TransactionVision Sensors. This file is also available from the TransactionVision Help menu.
- The *TransactionVision Administrator's Guide* provides instructions managing user accounts and communication links, configuring projects and data collection filters, and managing services and schemas. This file is also available from the TransactionVision Help menu.
- The *TransactionVision User's Guide* provides instructions using TransactionVision analysis views. This file is also available from the TransactionVision Help menu.
- The *TransactionVision Programmer's Guide* provides information for creating custom beans and reports for use with TransactionVision.
- The *TransactionVision Security Guide* provides an overview of the security features and setup procedures of TransactionVision. These features and procedures ensure that data collected by TransactionVision is secure and accessible to the appropriate people.

Contacting Bristol Support

If you encounter a problem installing or configuring TransactionVision, contact Bristol Support by any of the following methods:

- TransactionVision: Choose the Help > Bristol Support menu item. From the submenu, you may open the Bristol Support home page, open the TransactionVision knowledgebase, or open a problem report form.
- Web: <http://www.bristol.com/support>
- Email: support@bristol.com
- Phone: **203-798-1007** Press 3

Chapter 2

Installing the Web Application on Distributed Platforms

To install the TransactionVision Web Application on distributed (UNIX) platforms, perform the following steps.

1. Change to the directory location of the TransactionVision installation files (either a CD device or download directory).
NOTE: On Solaris and HP-UX, you must copy the installation files from CD device to a temporary directory on your host's hard drive.

2. Login as superuser:

```
su
```

3. Enter the following command to begin the installation procedure:

```
./install.sh
```

The following menu is displayed:

```
This script will install/uninstall different
TransactionVision components.
```

```
Unzipping/Untaring common package files ...
Unzipping/Untaring Analyzer package files ...
Unzipping/Untaring web package files ...
Unzipping/Untaring Application Server sensor package
files ...
Unzipping/Untaring JMS sensor package files ...
Unzipping/Untaring WebSphere MQ sensor package files
...
```

Important! The six "Unzipping..." lines above are only for Solaris and HP-UX installations.

```
The following TransactionVision packages are
available for installation:
```

1. TransactionVision Analyzer
2. TransactionVision Web

3. TransactionVision Application Server Sensor
4. TransactionVision JMS Sensor
5. TransactionVision WebSphere MQ Sensor

99. All of above
- q. Quit install

Please specify your choices (separated by ,) by number/letter:

Important! Note that actual options and numbers depend on the installation files available on your computer: Also note that the Application Server Sensor package installs both the Servlet and EJB Sensors.

If this is the first time installing TransactionVision components on this computer, continue with “Initial Installation.” If an earlier version of TransactionVision is installed on this computer, continue with “Upgrade Installation.”

Important! If WebSphere 6.0 is shutdown during the installation while there is an active session connected to the WebSphere Application Server administration user interface, you will see the following message upon restart and logging back into the administration console:

```
The master configuration has been updated. You currently
have workspace conflicts with these modifications. To see
these updates you must save or discard your current
workspace modifications.
```

If you choose to save your workspace modifications at this point, any changes that the TransactionVision utilities had just made during installation will be reversed. Instead, choose to discard your current workspace modifications. Any new modifications can be made once the master configuration is then reloaded.

Initial Installation

1. To install only a single component, type the number associated with the TransactionVision component package and press Return. In this example, type **2** and press Return to install only the Web Application.

To install multiple, but not all components, type the numbers associated with the components you wish to install, separated by commas, and press Return.

To install all available components, type **99** and press Return.

The installation script installs the specified package(s), then displays the menu again.

2. To quit the installation procedure, type **q** and press Return. To install additional components, see the installation instructions for those components.

Upgrade Installation

1. To install only a single component, type the number associated with the TransactionVision component package and press Return. In this example, type **2** and press Return to install only the Web Application.

To install multiple, but not all components, type the numbers associated with the components you wish to install, separated by commas, and press Return.

To install all available components, type **99** and press Return. See the installation instructions for the other components you wish to install for information about installing those components.

If the installation script determines that a previous version of TransactionVision is installed, it displays the following message:

```
There is an earlier version of TransactionVision
installed on the system.
The earlier version has to be uninstalled before
installing the current package(s).
Continue with the uninstallation? (Y/N) [N]:
```

2. Type **Y** and press Return to uninstall the previous version. If you type **N** and press Return, the installation process ends without uninstalling the previous version or installing the new version.

Before uninstalling the previous version, TransactionVision provides the option of migrating configuration files and project database schemas to the new installation:

```
Installation has detected an previous installation of
TransactionVision.
Migration converts configuration files and database
table schemas from the previous installation to the
new installation.
This step is required for TransactionVision to work
correctly with existing projects generated by an
earlier version of TransactionVision.
Continue to migrate TransactionVision project tables
and backed up configuration files from the previous
version? (Y/N) [Y]
Answer N and the database migration step can be
```

performed at a later time using the `MigrateDB.sh` script.

3. Type **Y** and press **Return** to migrate configuration files and project database schemas from the previous installation to the new version. The installation script automatically creates a backup copy of existing configuration files for the migration. It then uninstalls the previous version of TransactionVision, installs the new Sensor package (and addition components, if specified), and displays the installation menu. Continue to step 4.

If you choose not to migrate configuration files and project database schemas at this time, you may migrate project database schemas at a later time, after configuring TransactionVision components with the **MigrateDB.sh** script. See Appendix A, “Utilities Reference,” for information about this utility.

If you type **N** and press **Return**, the installation script provides the option of making a backup copy of configuration files for future reference:

```
Back up the configuration files from the previous
installation? (Y/N) [Y]
Answer N will over write those files, causing any
setup information to be lost.
```

Type **Y** and press **Return** to create a backup copy of your configuration files. The installation script prompts you to specify a backup location:

```
Backup copy of configuration files to
[/opt/TVision/migrate_tv421_date_time]:
```

Press **Return** to use the default location, or enter the desired backup directory location. The installation utility performs the following tasks:

- Copies the current configuration files to the specified directory
 - Uninstalls the previous version of TransactionVision.
 - Installs the new web package (and additional components, if specified).
 - Displays the installation menu again.
4. To quit the installation procedure, type **q** and press **Return**.

Installation Files

The following table shows the installation file names for the TransactionVision web package for each distributed platform.

Platform	Files
AIX	tvision_web_500_aix.bff
Linux	tvision_web_500_linux.rpm
Solaris	tvision_web_500_solaris_tar.gz

Uninstalling the Web Application

To uninstall TransactionVision components, perform the following steps:

1. Login as superuser:

```
su
```

2. Enter the following command:

```
install.sh -u
```

The following menu is displayed (note that actual options depend on the TransactionVision packages installed on your computer):

```
The following TransactionVision packages are
installed on the system:
```

- ```
1. TransactionVision Web
2. TransactionVision Analyzer
3. TransactionVision Application Server Sensor
4. TransactionVision JMS Sensor
5. TransactionVision WebSphere MQ Sensor

99. All of above
q. Quit uninstall
```

```
Please specify your choices (separated by ,) by
number/letter:
```

3. Type the number associated with the TransactionVision package you wish to uninstall (**1** for the Analyzer in this example) and press Return.

To uninstall all TransactionVision components, type **99** and press Return.

The installation script uninstalls the specified package, then displays the menu again.

If you uninstall the servlet Sensor, it will be first turned off in the WebSphere Application Server the Sensor is monitoring. The

instrumented jar files under \$WAS\_HOME/classes will be removed.

4. To quit the uninstall, type **q** and press Return. If the common package is the only TransactionVision package still installed, it will be uninstalled automatically.

***Important!*** After uninstalling the TransactionVision web user interface, you must clean up its temporary cache and distribution directory. WebSphere does not do this automatically, and any old files could cause a new installation to work incorrectly.

---

## Chapter 3

# Installing the Web Application on Windows

The TransactionVision Analyzer and web user interface are installed as a single package on Windows. Note that you must be logged into the target system either as Administrator or as a user with Administrator privileges.

For migration to work properly on Windows when you are upgrading from a previous release, either the JAVA\_HOME environment variable must be set or Java must be present in your path **before** you begin the installation. Migration requires Java; if neither of these is set, the installation may fail to migrate configuration files and you may need to run `TVisionSetupInfo` manually.

To install this package, perform the following steps:

1. Close all Windows programs currently running on your computer.
2. In the Windows Explorer, double-click `tvision_500_win.exe`. The InstallShield Welcome screen appears.
3. Click Next> and wait until the TransactionVision Setup Welcome screen appears.

If this is the first time installing the TransactionVision Web Application on this computer, continue with “Initial Installation.” If an earlier version of the TransactionVision Web Application is installed on this computer, continue with “Upgrade Installation.”

**Note:** If the InstallShield Save Files screen appears, click Next> to use the default folder for extracting installation files (for example, `C:\TEMP\Bristol TransactionVision`), or click Change to select the desired folder and click Next> to continue.

**Important!** If WebSphere 6.0 is shutdown during the installation while there is an active session connected to the WebSphere Application Server administration user interface, you will see the following message upon restart and logging back into the administration console:

The master configuration has been updated. You currently have workspace conflicts with these modifications. To see these updates you must save or discard your current workspace modifications.

If you choose to save your workspace modifications at this point, any changes that the TransactionVision utilities had just made during installation will be reversed. Instead, choose to discard your current workspace modifications. Any new modifications can be made once the master configuration is then reloaded.

## Initial Installation

For an initial installation, the Setup Welcome screen is displayed.

1. On the Setup Welcome screen, click Next> to display the TransactionVision license agreement.
2. Click Yes to accept the license agreement. The User Information screen appears.
3. Enter your name and company name, then click Next>. The Destination Location screen appears.
4. To use the default installation folder (C:\Program Files\Bristol TransactionVision), click Next>. To choose a different installation folder, click Browse..., select the desired installation folder, then click Next>. The Setup Type screen appears.
5. To install both the Analyzer and Web Application, select Complete and click Next>. To install only the Web Application, select Custom, click Next>, deselect the Analyzer, and click Next>.

The selected packages are installed in the specified location. The Setup Complete page appears.

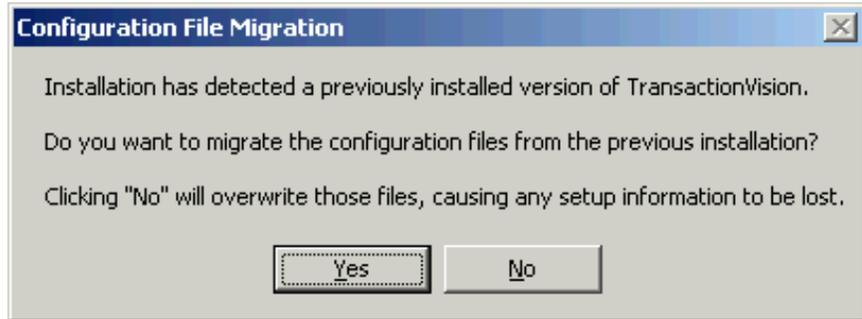
6. Click Finish to complete the installation.
7. If you are running WebLogic as a Windows service, continue with the steps in “Modifying the Registry for WebLogic.”

## Upgrade Installation

For an upgrade installation, the installation wizard displays the setup maintenance menu.

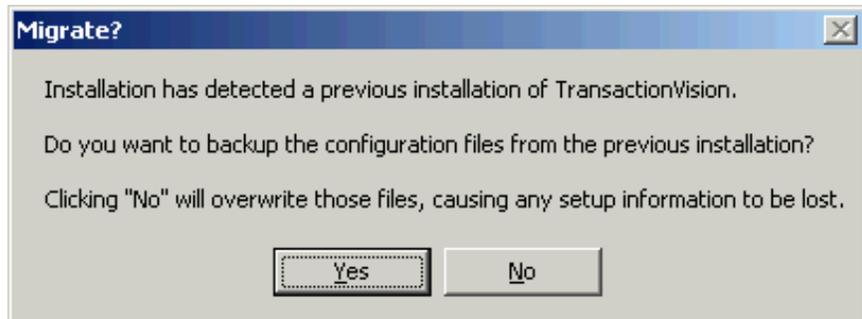
1. If you wish to install TransactionVision with **different** settings from the previous installation, select Remove and click Next> to uninstall the previous installation, then begin the installation procedure again. If you are upgrading from a previous release,

select Reinstall and click Next> to install TransactionVision using the settings from the previous installation. The Configuration File Migration dialog appears:



2. To maintain configuration information from the previous installation, click Yes. The installation wizard makes a backup copy of existing configuration files, installs the new version of TransactionVision, and opens an MS-DOS window to migrate existing configuration files to the new version. When complete, the Setup Complete screen appears.

To overwrite existing configuration files, click No. The installation wizard displays a message box asking whether you want to make a backup copy of existing configuration files before continuing the installation.



Click Yes to create a backup copy or No to continue the installation without backing up configuration files. The installation wizard then installs the new version of TransactionVision, overwriting existing configuration files, and displays the Setup Complete screen.

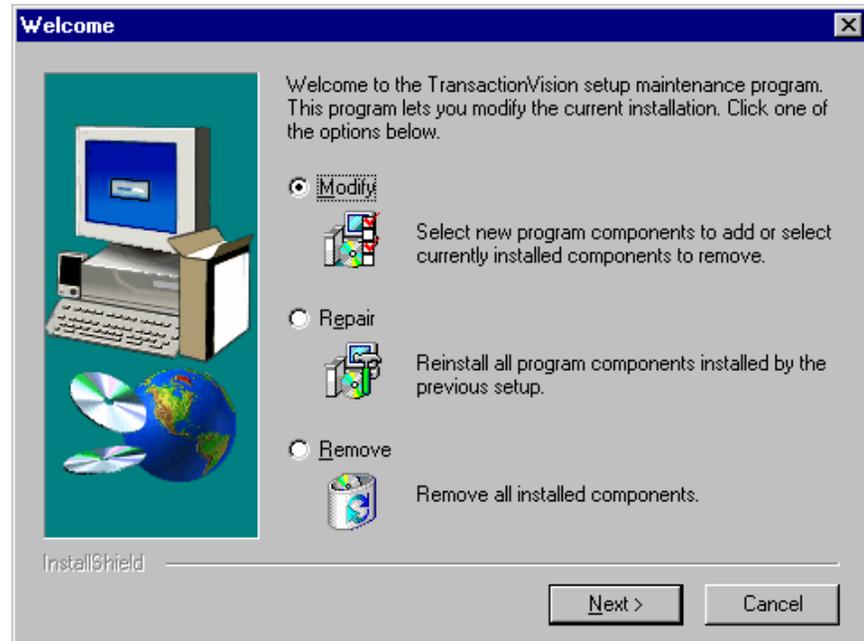
3. Click Finish to complete the installation.

## Modifying the Installation

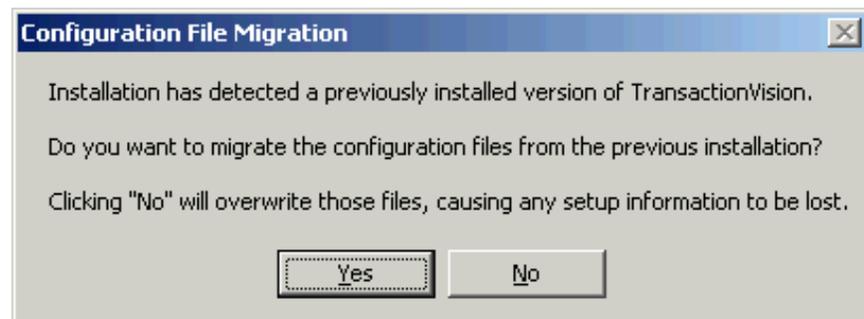
After you install TransactionVision Sensors on a host, you may wish to modify your installation. For example, suppose you initially install the

Analyzer on a host, then later decide to install the Servlet and JMS Sensors. To modify your installation perform the following steps:

1. Close all Windows programs currently running on your computer.
2. In the Windows Explorer, double-click `tvision_500_win.exe`. The InstallShield Welcome screen appears.
3. Click Next> and wait until the TransactionVision Setup Welcome screen appears.



4. To install an additional component or remove an installed component, select Modify. To reinstall all TransactionVision components installed by the previous setup, select Repair. To uninstall all components, select Remove.
5. Click Next> and select the additional components you wish to install. The Configuration File Migration dialog appears:



6. Click No, because migration is not required for installing additional components. The installation wizard displays a message box

asking whether you want to make a backup copy of existing configuration files before continuing the installation. Click No again to continue the installation without backing up configuration files. The installation wizard then installs the selected TransactionVision components and displays the Setup Complete screen.

7. Click Finish to complete the installation. If you wish to display the migration log file created when migrating configuration and project database files to the new version, check View Migration Log File before clicking Finish.

## Uninstalling the Web Application

To uninstall TransactionVision components, perform the following steps:

1. From the Start menu, choose Settings > Control Panel.
2. Double-click Add/Remove Programs.
3. Select the Bristol TransactionVision package you wish to uninstall and click Change/Remove. The maintenance menu screen appears.
4. Select Remove and click Next> to remove TransactionVision components.
5. Click OK to confirm that you wish to uninstall the specified package. The specified package is uninstalled. The following types of files are **not** deleted:
  - Any files added after the installation
  - Any shared files associated with packages that are still installed

If shared files do not appear to be associated with any installed packages (for example, if all other TransactionVision packages have been uninstalled), the Shared File Detected screen appears.

- To leave all shared files installed, check Don't display this message again and click No.
- To leave the current file, but display this message for any other shared files, click No.
- To delete the shared file, click Yes.

If you uninstall the servlet Sensor, it will be first turned off in the WebSphere Application Server the Sensor is monitoring. The instrumented classes under `$WAS_HOME/classes` will be removed along with its parent directories if they are empty.

6. The Uninstallation Complete screen appears. Click Finish to complete the uninstallation procedure.

***Important!*** After uninstalling the TransactionVision web user interface, you must clean up its temporary cache and distribution directory. WebSphere does not do this automatically, and any old files could cause a new installation to work incorrectly.

---

## Chapter 4

# Configuring the Web Application for IBM WebSphere

### Configuration Overview

Once TransactionVision is installed, you must create an IBM DB2 or Oracle database for TransactionVision to save event data. Refer to the *TransactionVision Analyzer Installation and Configuration Guide* for the required database parameters. The TransactionVision setup utilities do not create the database.

After the database is created, the following setup tasks must be completed before you can use the TransactionVision Analyzer and web user interface:

- Create the TransactionVision database schema.
- Start the Analyzer service, if it is installed.
- Install and start the TransactionVision web application in your WebSphere application server. You may follow the instructions in "Configuring Application Servers for TransactionVision" if you prefer to configure your application server for the TransactionVision Web Application manually.
- Initialize LDAP entries for TransactionVision (optional).

TransactionVision provides two utilities to guide you through the setup process:

- The `tvisionSetupInfo` utility prompts you to enter information needed for the setup process and sets required environment variables.

- The **TVisionSetup** utility uses information you provide to **TVisionSetupInfo** to perform setup tasks.

If you are running the TransactionVision Web Application and Analyzer on the same system, you need only run these utilities once after installing both components. See the *TransactionVision Analyzer Installation and Configuration Guide* for additional Analyzer configuration instructions, database configuration instructions, and information about the configuration files used by the Analyzer.

If you need to change configuration information at a later time, you may simply run these utilities again.

## Using *TVisionSetupInfo*

The **TVisionSetupInfo** utility modifies the following files:

- `TVISION_HOME/config/datamgr/Database.properties`
- `TVISION_HOME/config/ldap/Ldap.properties`
- `TVISION_HOME/install/websphere/tvision-ws-config.properties`
- `TVISION_HOME/config/setup/Setup.properties`

In addition, **TVisionSetupInfo** does the following:

- Saves the installation path for software tools in `TVISION_HOME/config/setup/DefaultInstallPath.xml`
- Generates `TVISION_HOME/bin/SetupEnv.[sh|bat]`, which is run by **TVisionSetup** to set the `JAVA_HOME`, `CLASSPATH`, and system library path environment variables required by TransactionVision
- Generates the script `TVISION_HOME/bin/WSSetupEnv.[sh|bat]` to setup command line parameters for configuring TransactionVision web application in WebSphere Application Server.

### Required Information

The **TVisionSetupInfo** utility prompts you to enter the following information necessary to complete the configuration. Please review these information requirements before running **TVisionSetupInfo** so you will be prepared to enter appropriate responses.

The following table shows parameters and associated technology areas that will be required. See the following sections for detailed descriptions of the parameters.

| Parameter                      | Technology |       |     |        |      |
|--------------------------------|------------|-------|-----|--------|------|
|                                | Web-Sphere | TIBCO | DB2 | Oracle | LDAP |
| Log file location              |            |       |     |        |      |
| DB2INSTANCE                    |            |       | ✓   |        |      |
| Database connection name       |            |       | ✓   | ✓      |      |
| Database name                  |            |       | ✓   | ✓      |      |
| Database host                  |            |       | ✓   | ✓      |      |
| Database user name             |            |       | ✓   | ✓      |      |
| Database user password         |            |       | ✓   | ✓      |      |
| Database driver                |            |       |     | ✓      |      |
| Database listener port         |            |       |     | ✓      |      |
| Sensor types                   |            |       |     |        |      |
| Message system provider        |            |       |     |        |      |
| Database installation path     |            |       | ✓   | ✓      |      |
| WebSphere MQ installation path | ✓          |       |     |        |      |
| TIBCO EMS installation path    |            | ✓     |     |        |      |
| Additional JAR files           |            |       |     |        |      |
| Application server cell name   | ✓          |       |     |        |      |
| Application server node        | ✓          |       |     |        |      |
| Application server name        | ✓          |       |     |        |      |
| Virtual host name              | ✓          |       |     |        |      |
| LDAP server name               |            |       |     |        | ✓    |
| User directory location        |            |       |     |        | ✓    |
| Group directory location       |            |       |     |        | ✓    |

### Log File Location

You must supply the pathname of the directory where TransactionVision should store log files. The default value is `TVISION_HOME/logs`.

### Database Properties

You must specify the type of database you plan to use with TransactionVision (IBM DB2 or Oracle).

For a DB2 database, you must supply the following information:

- The value of the `DB2INSTANCE` environment variable. The default value is `DB2`. Before starting your WebSphere 5 server, your `DB2INSTANCE` environment variable **must** be set. Failure to set this variable will cause a failure during TransactionVision startup and cause the WebSphere server to fail to start and initialize.
- The name of the database connection to be used by TransactionVision. See Chapter 4 in the *TransactionVision Analyzer Installation and Configuration Guide* for more information on identifying the connection name and database name.
- The name of the database that TransactionVision will connect to. This name may be different from the "database\_connection\_name" if a client database connection is used. See Chapter 4 in the *TransactionVision Analyzer Installation and Configuration Guide* for more information on identifying the connection name and database name.
- The name of the host that the database runs on. The default value is `local_host`.
- The user name for connecting to the database. If this field is empty, the currently logged in user is used to make the database connection. Make sure that the user specified or currently logged in has privileges for database access.
- The password for the database user name. If this field is empty, the currently logged in user's password is used to make the database connection. If `TVisionSetupInfo` is able to detect an installed JCE provider that supports the DES encryption algorithm, it sets the `jce_provider` value in the `Database.properties` file to the class name of the JCE provider and encrypts the password. Otherwise, it disables the password encryption feature and stores the password as unencrypted text.

For an Oracle database, you must supply the following information:

- The driver to use. For Oracle 9, you may specify `thin` or `oci`; `thin` is the recommended client type. **Note:** For IBM WebSphere Application Server to use Oracle JDBC OCI driver, `ORACLE_HOME` must be set in the user profile that runs WebSphere Application Server. Also make sure that the Oracle library is included in the dynamic library load path.
- The port number for the Oracle listener.
- The name of the database connection to be used by TransactionVision. The default value is `TVISION`. See Chapter 4 in the *TransactionVision Analyzer Installation and Configuration Guide* for more information on identifying the connection name and database name.
- The name of the database that TransactionVision will connect to. The default value is `TVISION`. This name may be different from the "database\_connection\_name" if a client database connection is used. See Chapter 4 in the *TransactionVision Analyzer Installation and Configuration Guide* for more information on identifying the connection name and database name.
- The name of the host that the database runs on. The default value is `local_host`.
- The user name for connecting to the database. If this field is empty, the currently logged in user is used to make the database connection. Make sure that the user specified or currently logged in has privileges for database access.
- The password for the database user name. If this field is empty, the currently logged in user's password is used to make the database connection. If `TVisionSetupInfo` is able to detect an installed JCE provider that supports the DES encryption algorithm, it sets the `jce_provider` value in the `Database.properties` file to the class name of the JCE provider and encrypts the password. Otherwise, it disables the password encryption feature and stores the password as unencrypted text.

### Messaging System Provider

You must specify the messaging system provider used to transfer TransactionVision configuration messages and events between Sensors and the Analyzer. Supported providers include WebSphere MQ and TIBCO EMS. You may specify one or both providers.

### Installation Paths

You will be prompted to enter installation paths for the following required software:

- Database

- WebSphere MQ

### Analyzer Settings

You must specify the following Analyzer information:

- The types of Sensors you are using in your environment
- The location of any JAR files that need to be added to the Analyzer CLASSPATH. These JAR files contain plugin beans that customize the Analyzer.

### Web Application Server

You must specify the type of Web Application Server used in your environment (IBM WebSphere or BEA WebLogic). For WebSphere, you must specify the following:

- WebSphere application server cell name
- WebSphere application server node
- WebSphere application server name
- WebSphere virtual host name

### LDAP

You must specify whether to use the TransactionVision insecure DEMO mode, which does not require an LDAP server setup. This mode provides four default accounts for logging into TransactionVision: Admin, Developer, Operator, and User. This mode is only provided for evaluation and testing; do NOT use it to collect critical data.

If you specify that you do NOT want to use DEMO mode, you must specify the following information. For more information about these properties, see Appendix E, "LDAP Configuration Scenarios."

- LDAP server name. This is the URL of the server to connect to. It directory maps to the attribute of `java.naming.provider.url`, used in creating an initial JNDI context.
- User directory location. This is the path for the TransactionVision web user interface to use to look up users for authentication and retrieval of TransactionVision authorities. If you wish to use an existing user hierarchy, use this attribute to integrate with the existing directory structure. When a user logs in, the user name is combined with the `UserDirectoryLocation` to perform authentication. For example, if user `joesmith` logs into the web application and the value of this property is `ou=Users,o=MyOrg,c=us` TransactionVision attempts to authenticate `cn=joesmith,ou=Users,o=MyOrg,c=us`.

TransactionVision creates by default a user location under `ou=Users,ou+TVision,o=bristol,c=us` if you do not wish to use an existing user directory. In order to have TransactionVision permissions, users in this directory must have a `TVAuthorityGroup` attribute. See the *TransactionVision Administrator's Guide* for more information.

- Group directory location. This property, similar to the user directory, specifies where to look up user groups. A group is considered to be a definition with one or more unique member attributes (such as the `groupofuniquenames` class) containing the list of users, and a `TVisionAuthorityGroup` attribute indicating what permissions to give this group.

### TVisionSetupInfo Syntax

1. Set the `TVISION_HOME` environment variable to the absolute path of the installation directory. For example, on Solaris, `TVISION_HOME` would be `/opt/TVision`; on AIX it would be `/usr/lpp/TVision`.
2. Run the `TVisionSetupInfo`. `[sh|bat]` script. This utility modifies TransactionVision configuration files, so you must have file modification privileges to run it (typically root for UNIX or Administrator for Windows).

---

#### Operating System Script Command

---

|                     |                                         |
|---------------------|-----------------------------------------|
| AIX, Linux, Solaris | <TVISION_HOME>/bin/TVisionSetupInfo.sh  |
| Windows             | <TVISION_HOME>\bin\TVisionSetupInfo.bat |

---

When responding to user input prompts from `TVisionSetupInfo`, press Enter to accept the default value shown in brackets; otherwise, type the correct value and press Enter. To specify an empty value, press the spacebar, and then press Enter. Sample input and output below is shown in *italics*.

### TVisionSetupInfo Prompts

#### Configuring Log Files

```
Checking Java version ...
```

```
This program collects configuration information in order to
setup the TransactionVision environment. This includes:
```

```
- Location of software that TransactionVision depends on
such as WebSphere MQ, the application server and the
```

- relational database system,
- Parameters required to connect to WebSphere MQ,
- Parameters to connect to the database system,
- Optional parameters to connect to the LDAP system
- Setup parameters for the TransactionVision Analyzer, and
- Setup parameters for the TransactionVision web component.

You will be prompted to input required configuration parameters. If a default value is provided in [], pressing <Enter> will set the parameter to this default value. Pressing <Space><Enter> will set the parameter to an empty value.

Please specify name of directory where you want to store your log files [C:\Program Files\Bristol\TVision\logs]:  
C:\Program Files\Bristol\TransactionVision\logs

Modifying \*.Logging.xml files in log file directory  
C:\Program Files\Bristol\TVision\logs

```
0 [main] INFO AppLog - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\logging\Analyzer.Logging.xml"
has been successfully updated
```

```
78 [main] INFO AppLog - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\logging\Migrate.Logging.xml"
has been successfully updated
```

```
141 [main] INFO AppLog - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\logging\Setup.Logging.xml" has
been successfully updated
```

```
219 [main] INFO AppLog - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\logging\UI.Logging.xml" has
been successfully updated
```

## Configuring Database Properties

Retrieving database configuration parameters ...

Type of Database (Oracle or DB2)? [DB2]: DB2

If you specify Oracle as the type of database, you will be prompted to specify the driver to use. For Oracle 9, you may specify thin or oci; thin is the recommended client type.

**Note:** For IBM WebSphere Application Server to use Oracle JDBC OCI driver, ORACLE\_HOME must be set in the user profile that runs WebSphere Application Server. Also make sure that the Oracle library is included in the dynamic library load path.

For a thin client type, you must also enter the port number that the Oracle listener is on. The default is 1521.

For more information about using Oracle with TransactionVision, see the *TransactionVision Analyzer Installation and Configuration Guide*.

Value of your environment variable DB2INSTANCE [DB2]: *DB2*

**Important!** Before starting your WebSphere 5 server, your DB2INSTANCE environment variable must be set. Failure to set this variable will cause a failure during TransactionVision startup and cause the WebSphere server to fail to start and initialize.

Database connection name to be used by TransactionVision [TVISION]: *TVDB*

For DB2, enter the name of the database connection to be used. For Oracle, enter the Oracle Local Net Service Name for an oci client connection or the SID (system identifier) for a thin client connection.

Name of database TransactionVision connects to [TVISION]:  
*TVDB*

For DB2, enter the name of the database on the server to connect to. For an Oracle oci client connection, enter the SID. This prompt does not appear for an Oracle thin client connection.

Name of the host the database is running on [*local\_host*]:  
*devpc*

Enter the name of the host the database server is running on.

Database user name [db2admin]:

Enter the user name to be used while making the database connection. Leave blank to use the currently logged in user to make the database connection.

User password [ibmdb2]:

Enter the password to be used while making the database connection. Leave blank to use the currently logged in user's password to make the database connection.

The **TVisionSetupInfo** utility automatically searches for an installed JCE provider that supports the DES encryption algorithm. If such a provider is

found, **TVisionSetupInfo** sets the `jce_provider` value in the `Database.properties` file to the class name of the JCE provider. If no JCE provider is found, **TVisionSetupInfo** displays the following message:

```
Java Cryptography Extension (JCE) is not present in your
current JDK. Password encryption feature will be disabled
and stored in plain text.
```

```
2004-08-23 18:14:40,338 [main] - TransactionVision
Info(FileUpdated): File C:\Program
Files\Bristol\TVision\config\datamgr\Database.properties"
has been successfully updated
```

### Configuring Messaging System Provider

Please select your Queuing Product Type by number.

1. WebSphere MQ
2. TIBCO EMS
3. All of the above

```
Your Queuing Product [1]: 3
```

Enter the number corresponding to the messaging system provider you wish to use to transfer configuration and event messages between the Analyzer and Sensors. **TVisionSetupInfo** uses this information to generate the proper shell script to set up the Analyzer runtime environment correctly. If the Analyzer will collect event from both IBM WebSphere MQ communication links and TIBCO EMS communication links, select option 3.

### Configuring Installation Paths for Dependent Software

```
Retrieving installation path for dependent software tools
...
```

```
DB2 installation location [C:\Program Files\sqlllib]:
```

The following prompt only appears if you selected WebSphere MQ as a message system provider.

```
WebSphere MQ installation location [C:\Program
Files\IBM\WebSphere MQ]:
```

The following prompt only appears if you selected TIBCO EMS as a message system provider.

```
TIBCO EMS installation location [C:\tibco\ems]:
```

```
2004-08-23 18:14:45,995 [main] - TransactionVision
Info(FileUpdated): File C:\Program
Files\Bristol\TVision\config\setup\DefaultInstallPath.xml"
```

has been successfully updated

## TransactionVision Analyzer Settings

Please select your Sensor types by number. This enables the Analyzer to receive events from the selected Sensors. If you are selecting multiple Sensor types, please separate them with ",".

1. CICS
2. EJB
3. WebSphere MQ JMS
4. TIBCO EMS JMS
5. Servlet
6. WebSphere MQ
7. WebSphere MQ IMS Bridge
8. All of the above

Your Sensor type(s) [8] :

Enter the number corresponding to the types of TransactionVision Sensors you plan to use. For multiple Sensor types, separate the numbers with a comma. For all Sensor types, enter **8**.

## Customize the Analyzer Runtime Environment

The Analyzer can optionally be customized by plugin beans in JAR files.

The location of these JAR files needs to be added to the Analyzer CLASSPATH.

Please specify a semicolon delimited list of any additional JAR files you wish to be added to the CLASSPATH. (for example, 'C:\TVision\myext.jar;C:\TVision\myutil.jar') []:

```
2005-04-14 09:07:02,506 [main] - TransactionVision
Info(FileUpdated): File "Z:\tvision\media\TVision\config\
services\Analyzer.properties" has been successfully updated
```

Specify the location of any JAR files that need to be added to the Analyzer CLASSPATH. These JAR files contain plugin beans that customize the Analyzer.

## Selecting Web Application Server

Please select your web application server by number:

1. IBM WebSphere Application Server
2. BEA WebLogic
3. None

Your web application server product [1]: 2

Enter **1** for IBM WebSphere Application Server.

Does your target Application Server use a different configuration instance from the default WebSphere install directory? [y]:

Answer **y** if your WebSphere Application Server has a separate configuration instance. A WebSphere configuration instance can be duplicated using the **wsinstance** command. If you answer **y**, you will be prompted to enter the directory location of the duplicate configuration instance:

Enter the location of your WebSphere Application Server configuration instance [c:\temp\wsin]:

```
2004-08-23 18:14:48,745 [main] - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\bin\WebSetupEnv.bat" has been
successfully updated
```

## Configuring LDAP Properties

Retrieving LDAP configuration parameters ...

TransactionVision provides an insecure DEMO mode which does not require an LDAP server setup. This mode provides four default accounts: Admin, Developer, Operator and User for logging into the system. Make sure to use this DEMO mode only for evaluation and test purposes and not to collect critical data.

Do you want to run TransactionVision in DEMO mode? (Y/N)  
[Y]: N

The following prompts only appear if you answer N to the previous prompt, indicating that you do **not** want to use DEMO mode:

LDAP server name points to the server to connect to. Its value should contain a URL string such as "ldap://somehost:389".

```
LDAP server name [ldap://server_host:server_port]:
ldap://devpc:389
```

Enter the URL of the server to connect to. It directly maps to the attribute of `java.naming.provider.url`, used in creating an initial JNDI context.

User directory location specifies to the web application what path to lookup users under for authentication and retrieval of TransactionVision authorities.

```
User directory location [ou=Users,ou=TVision,o=bti,c=us]:
```

Enter the path for the TransactionVision web user interface to use to look up users for authentication and retrieval of TransactionVision authorities. If you wish to use an existing user hierarchy, use this attribute to integrate with the existing directory structure. When a user logs in, the user name is combined with the `UserDirectoryLocation` to perform authentication. For example, if user `joesmith` logs into the web application and the value of this property is `ou=Users,o=MyOrg,c=us` TransactionVision attempts to authenticate `cn=joesmith,ou=Users,o=MyOrg,c=us`.

TransactionVision creates by default a user location under `ou=Users,ou+TVision,o=bristol,c=us` if you do not wish to use an existing user directory. In order to have TransactionVision permissions, users in this directory must have a `TVAuthorityGroup` attribute. See the *TransactionVision Administrator's Guide* for more information.

Group directory location specifies to the web application what path to lookup user groups under for authentication and retrieval of TransactionVision authorities.

Group directory location [`ou=Groups,o=bti,c=us`]:

This property, similar to the user directory, specifies where to look up user groups. A group is considered to be a definition with one or more unique member attributes (such as the `groupofuniquenames` class) containing the list of users, and a `TVisionAuthorityGroup` attribute indicating what permissions to give this group.

```
2004-08-23 13:42:05,162 [main] - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\ldap\Ldap.properties" has been
successfully updated
```

## Configuring WebSphere Application Server Properties

When configuring the WebSphere application server initially, the following prompts appear:

**Important!** Values for WebSphere Application Server properties are case-sensitive. Be careful to type input in the correct case.

The following configuration parameters are required for setting up the TransactionVision web application in the WebSphere Application Server. Note: the parameter values are case sensitive.

Retrieving WebSphere Application Server configuration parameters ...

The following WebSphere profiles are available on this host:

1. default
2. Profile2

The previous question appears only if you are using WebSphere 6 and multiple profiles are present. Otherwise, the following question is displayed:

The following WebSphere servers are available on this host:

1. cell: testpc, node: testpc, server: server1
2. cell: testpc, node: testpc, server: server2

Please select the WebSphere server by number: **1**

If you run TVisionSetupInfo at a later time to change any information, the following menu appears:

```
Your current WebSphere server setting is:
 cell: testpc, node: testpc, server: server1
Would you like to change this? (y/n) [n]:
```

To change information, enter **y** to display the initial configuration menu. Select the desired server. To use the same information, enter **n**.

The following WebSphere virtual hosts are available on this host:

1. admin\_host
2. default\_host

Please select the WebSphere virtual host by number: **2**

If TVisionSetupInfo cannot obtain this information from WebSphere, you will be required to input the cell name, node name, server name, and virtual host strings manually.

If you run TVisionSetupInfo at a later time to change any information, the following menu appears:

```
Your current WebSphere server setting is:
 cell: testpc, node: testpc, server: server1
Would you like to change this? (y/n) [n]:
```

To change information, enter **y** to display the initial configuration menu. Select the desired server. To use the same information, enter **n**.

```
Generating script file for WebSphere Application Server
configuration ...
```

```
2004-08-23 18:14:53,838 [main] - TransactionVision
Info(FileUpdated): File "C:/Program
```

Files/Bristol/TVision/bin/WSSetupEnv.bat" has been successfully updated

### Completion Information

```
2004-08-23 18:14:53,854 [main] - TransactionVision
Info(TVisionSetupInfoSuccess)
: TVisionSetupInfo has completed successfully.
```

All program output and user input are logged to "C:/Program Files/Bristol/TVision/logs/setup.log".

Please run TVisionSetup to complete TransactionVision setup.

## Using TVisionSetup

Run **TVisionSetup** once after installation. You can use this utility to do any or all of the following:

- Initialize the database for TransactionVision, or verify that the database is initialized
- Verify that WebSphere MQ or TIBCO is set up for TransactionVision
- Initialize the TransactionVision Analyzer, or verify that the Analyzer is initialized
- Initialize LDAP entries for TransactionVision, or verify that LDAP entries are initialized
- Install the TransactionVision Web Application in your web application server, or verify that it is installed

### Before You Begin

Before you run **TVisionSetup**, you must set the correct database environment in your user environment:

- For IBM DB2, the DB2INSTANCE environment variable must be set and you must have database access rights. For Oracle, this includes checking that the user has database access rights and, if necessary, that the ORACLE\_HOME environment variable is set.
- A database to store TransactionVision data must be created before running **TVisionSetup**.

Refer to your IBM DB2 or Oracle documentation for further information on database setup.

## Required Information

For most tasks, **TVisionSetup** uses information provided in the **TVisionSetupInfo** utility. However, some tasks may require you to enter additional information. Please review these information requirements before running **TVisionSetup** so you will be prepared to enter appropriate responses.

### Verify WebSphere MQ Setup

To verify WebSphere MQ setup for TransactionVision, you must supply the following information:

- The name of the WebSphere MQ queue manager you wish to verify
- Whether to test the server connection and/or the client connection. If you test the client connection, you must enter the following:
  - Queue manager host name
  - Queue manager channel name
  - Queue manager port number

### Verify TIBCO Setup

To verify TIBCO setup for TransactionVision, you must supply the following information:

- The name of the TIBCO EMS server host you wish to verify
- The port number of the TIBCO EMS server you wish to verify
- The user name you wish to use to connect to the TIBCO EMS server
- The password for the specified user name

### Initialize Analyzer

Once the Analyzer is initialized, you must specify whether to start the Analyzer.

### Initialize LDAP

To initialize LDAP entries for TransactionVision, you must enter the following information:

- User name. This is the distinguished name for authentication. The specified user should have authority to create new LDAP entry.
- Password for the specified user name.
- Default group directory location. Specify the location where the TransactionVision related security definitions will be stored. It can be any valid path in your directory structure. If you are running

this LDAP server only for TransactionVision, the typical directory location could be the root directory (the name of your suffix, for example: o=bti,c=us). If you are integrating with an existing LDAP server, consult with your LDAP server administrator to determine the location where these objects should be stored.

- Whether to create the default root suffix. If you have not yet defined the LDAP suffix you wish to place TransactionVision objects under (for example, “o=bti,c=us”), you must first define this suffix using your LDAP administration tools before continuing. Once the suffix has been defined, you can either manually create the suffix node or you can have it created for you by answering yes to this prompt.
- Whether to create the default Admin user. Answer **Y** to create an Admin user object that has privileges to access TransactionVision. This user object is created using the default user object template. If you have existing or non-default users in your LDAP environment that you want the TransactionVision Admin user to be part of, create this user manually using those templates. For more information, see the “Managing Users” chapter of the *TransactionVision Administrator’s Guide*.

### TVisionSetup Syntax

Use the following commands to run **TVisionSetup**:

| Operating System    | Script Command                      |
|---------------------|-------------------------------------|
| AIX, Linux, Solaris | <TVISION_HOME>/bin/TVisionSetup.sh  |
| Windows             | <TVISION_HOME>\bin\TVisionSetup.bat |

The syntax for **TVisionSetup** is as follows:

```
<TVISION_HOME>/bin/TVisionSetup [-rmiregp PORTNUMBER]
[-debug] [-h]
```

- The default port number where the Analyzer listens for RMI calls is 1099; use the `-rmiregp` option to specify a different port number.
- Use the `-debug` option to start rmid and rmiregistry in debug mode.
- Use the `-h` option to print the usage message for this utility.

**TVisionSetup** must be run in a user environment which has the correct database environment set. For IBM DB2 this includes checking the DB2INSTANCE environment variable setting and that the user has database access rights. Refer to your IBM DB2 manual for further information.

## TVisionSetup Menus

This command provides different menus, depending on whether the host is a WebSphere or WebLogic AppServer with the TransactionVision web user interface installed, and whether LDAP demo mode is used.

Enter the number corresponding to the desired menu action, or enter **99** to perform all actions. The results of each menu action are displayed as they are performed; press the Enter key to continue with the next menu item. Some menu actions require user input.

The following menu appears if WebSphere Application Server and the TransactionVision web user interface are installed, and the DEMO mode is **not** used:

1. Initialize database for TransactionVision
2. Verify database initialization for TransactionVision
  
3. Verify WebSphere MQ setup for TransactionVision
4. Verify TIBCO setup for TransactionVision
  
5. Initialize TransactionVision Analyzer
6. Verify TransactionVision Analyzer initialization
  
7. Initialize LDAP entries for TransactionVision
8. Verify LDAP initialization for TransactionVision
  
9. Install TransactionVision web application
10. Verify TransactionVision web application installation
  
99. Select all
- V. Display version info for software

Type "quit" or "q" to exit

If demo mode is used, or the application server or TransactionVision web user interface are not installed, certain items are omitted from the menu. If an item is omitted, the remaining items are renumbered in sequence.

- If you specified in **TVisionSetupInfo** to use DEMO mode for LDAP, items 7 and 8 are omitted from the menu.
- If the WebSphere application server or TransactionVision web user interface are not installed, items 7, 8, 9, and 10 are omitted from the menu.

## TVisionSetup Prompts

The following sections describe the required input for each menu item.

### 1. Initialize database for TransactionVision

No input required.

## 2. Verify Database initialization for TransactionVision

No input required.

## 3. Verify WebSphere MQ setup for TransactionVision

This menu item displays the following output and prompts:

```
Verifying WebSphere MQ Java setup for TransactionVision ...
```

```
Please specify WebSphere MQ queue manager name:
```

```
Do you want to test WebSphere MQ server connection? (Y/N)
[N]:
```

```
TransactionVision Info(MQInitialized): WebSphere MQ is
loaded properly for WebSphere MQ server connection
```

```
Do you want to test WebSphere MQ client connection? (Y/N)
[N]:
```

***Important!*** If you answer **Y**, the following you are prompted to enter the following additional information:

```
Host name for WebSphere MQ queue manager:
```

```
Channel name for WebSphere MQ queue manager:
```

```
Port number for WebSphere MQ queue manager:
```

```
Hit <Enter> to continue ...:
```

## 4. Verify TIBCO sertup for TransactionVision

This menu item displays the following output and prompts:

```
Verifying TIBCO EMS setup for TransactionVision ...
```

```
TIBCO EMS Server Host Name []:
```

```
TIBCO EMS Server Port Number []:
```

```
User Name []:
```

```
Password []:
```

```
Testing TIBCO EMS server connection ...
```

```
2005-04-12 09:21:35,631 [main] - TransactionVision
Info(TIBCOInitialized): TIBCO is loaded properly for TIBCO
connection
```

```
Hit <Enter> to continue...:
```

## 5. Initialize TransactionVision Analyzer

This menu item displays the following output and prompts:

```
Initializing TransactionVision Analyzer ...

Do you want to start TransactionVision Analyzer? (Y/N) [Y]:

Hit <Enter> to continue:
```

## 6. Verify TransactionVision Analyzer initialization

No input required.

## 7. Initialize LDAP entries for TransactionVision

This menu item displays the following output and prompts:

```
Initializing LDAP for TransactionVision ...

User name is used as the distinguished name for
authentication. Specified user should have authority to
create new LDAP entry.

Logon user name:
User password:
Directory location to create default TransactionVision
group :
```

Specify the location where the TransactionVision related security definitions will be stored. It can be any valid path in your directory structure. If you are running this LDAP server only for TransactionVision, the typical directory location could be the root directory (the name of your suffix, for example: o=bti,c=us). If you are integrating with an existing LDAP server, consult with your LDAP server administrator to determine the location where these objects should be stored.

If you have not yet defined the LDAP suffix you wish to place TransactionVision objects under (for example, "o=bti,c=us"), you must first define this suffix using the LDAP administration tools before continuing. Once the suffix has been defined, you can either manually create the suffix node or you can have it created for you by answering yes to the below question.

```
Do you want to create default root suffix? (Y/N) [N]: y
Root suffix name:
```

```
Do you want to create default Admin user? (Y/N) [Y]:
```

Answer **Y** to create an Admin user object that has privileges to access TransactionVision. This user object is created using the default user object template. If you have existing or non-default users in your LDAP environment that you want the TransactionVision Admin user to be part

of, create this user manually using those templates. For more information, see the “Managing Users” chapter of the *TransactionVision Administrator’s Guide*.

```
Continue to initialize the LDAP entries for
TransactionVision? (Y/N) [Y]:
```

```
Hit <Enter> to continue ...:
```

## 8. Verify LDAP initialization for TransactionVision

This menu item displays the following output and prompts:

```
Verifying LDAP initialization for TransactionVision ...
```

```
User name is used as the distinguished name for
authentication. Specified user should have authority to
read LDAP entries.
```

```
Logon user name (ex. cn=root):
```

```
User password:
```

```
Enter directory location where the default
TransactionVision objects were created:
```

```
Continue to verify the LDAP entries for TransactionVision?
(Y/N) [Y]:
```

```
If you have created default Admin user, do you want to test
its login (Y/N) [N]:
```

```
Hit <Enter> to continue ...:
```

## 9. Install TransactionVision web application

For the WebSphere application server, this menu item displays the following output and prompt:

```
Installing TransactionVision web application for WebSphere.
This may take a few minutes...
```

```
The WebSphere Application Server where TransactionVision
web application has just been installed must be restarted
in order for TransactionVision to work correctly.
Do you want to restart this application server? (Y/N) [Y]:
```

```
Hit <Enter> to continue ...:
```

If the **TVisionSetup** script detects whether the TransactionVision web application has already been installed for WebSphere. If so, it prompts you to uninstall the current application before installing the new one.

## 10. Verify TransactionVision web application installation

No input required.

## Additional Procedures for WebSphere Application Server 5.1 Express Edition

If you are using WebSphere Application Server 5.1 Express Edition, perform the following steps from the WebSphere Admin console.

- Add com.bristol.tvision.home as JVM System property setting.
- Add the DB2 or Oracle JDBC driver to a server configuration
- Install and setup the TransactionVision web user interface

For detailed instructions, see Appendix D, “Configuring Application Servers for TransactionVision.”

---

## Chapter 5

# Configuring the Web Application for BEA WebLogic

### Configuration Overview

Once TransactionVision is installed, you must create an IBM DB2 or Oracle database for TransactionVision to save event data. Refer to the *TransactionVision Analyzer Installation and Configuration Guide* for the required database parameters. The TransactionVision setup utilities do not create the database.

After the database is created, the following setup tasks must be completed before you can use the TransactionVision Analyzer and web user interface:

- Create the TransactionVision database schema.
- Create modified versions of the `startWebLogic` and `startManagedWebLogic` scripts called `tvStartWebLogic` and `tvStartManagedWebLogic` for starting WebLogic servers for use with TransactionVision.
- Start the Analyzer service.
- Install and start the TransactionVision web application in your WebLogic application server. You may follow the instructions in "Configuring Application Servers for TransactionVision" if you prefer to configure your application server for the TransactionVision Web Application manually.
- Initialize LDAP entries for TransactionVision (optional).

TransactionVision provides two utilities to guide you through the setup process:

- The `tvisionSetupInfo` utility prompts you to enter information needed for the setup process and sets required environment

variables. It also generates the `tvStartWebLogic` and `tvStartManagedWebLogic` scripts.

- The `TVisionSetup` utility uses information you provide to `TVisionSetupInfo` to perform setup tasks.

If you are running the TransactionVision Web Application and Analyzer on the same system, you need only run these utilities once after installing both components. See the *TransactionVision Analyzer Installation and Configuration Guide* for additional Analyzer configuration instructions, as well as information about the configuration files used by the Analyzer.

If you need to change configuration information at a later time, you may simply run these utilities again.

## Using `TVisionSetupInfo`

The `TVisionSetupInfo` utility modifies the following files:

- `TVISION_HOME/config/datamgr/Database.properties`
- `TVISION_HOME/config/ldap/Ldap.properties`
- `TVISION_HOME/install/weblogic/tvision-wl-config.properties`

In addition, `TVisionSetupInfo` does the following:

- Saves the installation path for software tools in `TVISION_HOME/config/setup/DefaultInstallPath.xml`
- Generates `TVISION_HOME/bin/SetupEnv.[sh|bat]`, which is run by `TVisionSetup` to set the `JAVA_HOME`, `CLASSPATH`, and system library path environment variables required by TransactionVision
- Generates the script `TVISION_HOME/bin/WebSetupEnv.[sh|bat]` to setup command line parameters for configuring TransactionVision web application in WebLogic Application Server.

### Required Information

The `TVisionSetupInfo` utility prompts you to enter the following information necessary to complete the configuration. Please review these information requirements before running `TVisionSetupInfo` so you will be prepared to enter appropriate responses.

The following table shows parameters and associated technology areas that will be required. See the following sections for detailed descriptions of the parameters.

| Parameter                      | Technology |     |        |      |
|--------------------------------|------------|-----|--------|------|
|                                | WebLogic   | DB2 | Oracle | LDAP |
| Log file location              |            |     |        |      |
| DB2INSTANCE                    |            | ✓   |        |      |
| Database connection name       |            | ✓   | ✓      |      |
| Database name                  |            | ✓   | ✓      |      |
| Database host                  |            | ✓   | ✓      |      |
| Database user name             |            | ✓   | ✓      |      |
| Database user password         |            | ✓   | ✓      |      |
| Database driver                |            |     | ✓      |      |
| Database listener port         |            |     | ✓      |      |
| Sensor types                   |            |     |        |      |
| Message system provider        |            |     |        |      |
| Database installation path     |            | ✓   | ✓      |      |
| WebSphere MQ installation path |            |     |        |      |
| WebLogic installation location | ✓          |     |        |      |
| TIBCO EMS installation path    |            |     |        |      |
| Additional JAR files           |            |     |        |      |
| Admin server name              | ✓          |     |        |      |
| Admin server host              | ✓          |     |        |      |
| Admin server port              | ✓          |     |        |      |
| Admin server user name         | ✓          |     |        |      |
| Admin server password          | ✓          |     |        |      |
| Domain directory               | ✓          |     |        |      |
| Deployment server              | ✓          |     |        |      |

| Parameter                | Technology |     |        |      |
|--------------------------|------------|-----|--------|------|
|                          | WebLogic   | DB2 | Oracle | LDAP |
| LDAP server name         |            |     |        | ✓    |
| User directory location  |            |     |        | ✓    |
| Group directory location |            |     |        | ✓    |

### Log File Location

You must supply the pathname of the directory where TransactionVision should store log files. The default value is `TVISION_HOME/logs`.

### Database Properties

You must specify the type of database you plan to use with TransactionVision (IBM DB2 or Oracle).

For a DB2 database, you must supply the following information:

- The value of the `DB2INSTANCE` environment variable. The default value is `DB2`. Before starting your WebSphere 5 server, your `DB2INSTANCE` environment variable **must** be set. Failure to set this variable will cause a failure during TransactionVision startup and cause the WebSphere server to fail to start and initialize.
- The name of the database connection to be used by TransactionVision. The default value is `TVISION`.
- The name of the database that TransactionVision will connect to. The default value is `TVISION`. This name may be different from the "database\_connection\_name" if a client database connection is used.
- The name of the host that the database runs on. The default value is `local_host`.
- The user name for connecting to the database. If this field is empty, the currently logged in user is used to make the database connection. Make sure that the user specified or currently logged in has privileges for database access.
- The password for the database user name. If this field is empty, the currently logged in user's password is used to make the database connection. If `TVisionSetupInfo` is able to detect an installed JCE provider that supports the DES encryption algorithm, it sets the `jce_provider` value in the `Database.properties` file to the class name of the JCE provider and encrypts the password.

Otherwise, it disables the password encryption feature and stores the password as unencrypted text.

For an Oracle database, you must supply the following information:

- The driver to use. For Oracle 9, you may specify `thin` or `oci`; `thin` is the recommended client type. **Note:** For Weblogic to use Oracle JDBC OCI driver, `ORACLE_HOME` must be set in the user profile that runs the server application. Also make sure that the Oracle library is included in the dynamic library load path.
- The port number for the Oracle listener.
- The name of the database connection to be used by TransactionVision. The default value is `TVISION`.
- The name of the database that TransactionVision will connect to. The default value is `TVISION`. This name may be different from the "database\_connection\_name" if a client database connection is used.
- The name of the host that the database runs on. The default value is `local_host`.
- The user name for connecting to the database. If this field is empty, the currently logged in user is used to make the database connection. Make sure that the user specified or currently logged in has privileges for database access.
- The password for the database user name. If this field is empty, the currently logged in user's password is used to make the database connection. If `TVisionSetupInfo` is able to detect an installed JCE provider that supports the DES encryption algorithm, it sets the `jce_provider` value in the `Database.properties` file to the class name of the JCE provider and encrypts the password. Otherwise, it disables the password encryption feature and stores the password as unencrypted text.

### Messaging System Provider

You must specify the messaging system provider used to transfer TransactionVision configuration messages and events between Sensors and the Analyzer. Supported providers include WebSphere MQ and TIBCO EMS. You may specify one or both providers.

### Installation Paths

You will be prompted to enter installation paths for the following required software:

- Database
- WebSphere MQ

### Analyzer Settings

You must specify the following Analyzer information:

- The types of Sensors you are using in your environment
- The location of any JAR files that need to be added to the Analyzer CLASSPATH. These JAR files contain plugin beans that customize the Analyzer.

### Web Application Server

You must specify the type of Web Application Server used in your environment (IBM WebSphere or BEA WebLogic).

For WebLogic, you must specify the following:

- WebLogic installation location
- Admin server name
- Admin server host
- Admin server port
- Admin server user name
- Admin server password
- Domain directory
- Deployment server

### LDAP

You must specify whether to use the TransactionVision insecure DEMO mode, which does not require an LDAP server setup. This mode provides four default accounts for logging into TransactionVision: Admin, Developer, Operator, and User. This mode is only provided for evaluation and testing; do NOT use it to collect critical data.

If you specify that you do NOT want to use DEMO mode, you must specify the following information. For more information about these properties, see Appendix E, "LDAP Configuration Scenarios."

- LDAP server name. This is the URL of the server to connect to. It directory maps to the attribute of `java.naming.provider.url`, used in creating an initial JNDI context.
- User directory location. This is the path for the TransactionVision web user interface to use to look up users for authentication and retrieval of TransactionVision authorities. If you wish to use an existing user hierarchy, use this attribute to integrate with the existing directory structure. When a user logs in, the user name is combined with the `UserDirectoryLocation` to perform

authentication. For example, if user `joesmith` logs into the web application and the value of this property is

```
ou=Users, o=MyOrg, c=us TransactionVision attempts to
authenticate cn=joesmith, ou=Users, o=MyOrg, c=us.
```

TransactionVision creates by default a user location under `ou=Users, ou+TVision, o=bristol, c=us` if you do not wish to use an existing user directory. In order to have TransactionVision permissions, users in this directory must have a `TVAuthorityGroup` attribute. See the *TransactionVision Administrator's Guide* for more information.

- Group directory location. This property, similar to the user directory, specifies where to look up user groups. A group is considered to be a definition with one or more unique member attributes (such as the `groupofuniquenames` class) containing the list of users, and a `TVisionAuthorityGroup` attribute indicating what permissions to give this group.

## TVisionSetupInfo Syntax

1. Set the `TVISION_HOME` environment variable to the absolute path of the installation directory. For example, on Solaris, `TVISION_HOME` would be `/opt/TVision`; on AIX it would be `/usr/lpp/TVision`.
2. Run the `TVisionSetupInfo`. [`sh`]`bat`] script. This utility modifies TransactionVision configuration files, so you must have file modification privileges to run it (typically root for UNIX or Administrator for Windows).

---

### Operating System Script Command

---

|                     |                                         |
|---------------------|-----------------------------------------|
| AIX, Linux, Solaris | <TVISION_HOME>/bin/TVisionSetupInfo.sh  |
| Windows             | <TVISION_HOME>\bin\TVisionSetupInfo.bat |

---

When responding to user input prompts from `TVisionSetupInfo`, press Enter to accept the default value shown in brackets; otherwise, type the correct value and press Enter. To specify an empty value, press the spacebar, and then press Enter. Sample input and output below is shown in *italics*.

**Important!** If you are using the WebLogic application server and configuring the TransactionVision web user interface on a managed server, you must run the WebLogic Admin Server and Node Manager for the TransactionVision setup utilities to work correctly. When invoking the WebLogic Admin Server and Node Manager, your database library (regardless of which database you use) must be in the system library path (PATH on Windows, LD\_LIBRARY\_PATH on Solaris).

## TVisionSetupInfo Prompts

### Configuring Log Files

Checking Java version ...

This program collects configuration information in order to setup the TransactionVision environment. This includes:

- Location of software that TransactionVision depends on such as WebSphere MQ, the application server and the relational database system,
- Parameters required to connect to WebSphere MQ,
- Parameters to connect to the database system,
- Optional parameters to connect to the LDAP system
- Setup parameters for the TransactionVision Analyzer, and
- Setup parameters for the TransactionVision web component.

You will be prompted to input required configuration parameters. If a default value is provided in [], pressing <Enter> will set the parameter to this default value. Pressing <Space><Enter> will set the parameter to an empty value.

Please specify name of directory where you want to store your log files [C:\Program Files\Bristol\TVision\logs]:  
C:\Program Files\Bristol\TransactionVision\logs

Modifying \*.Logging.xml files in log file directory  
C:\Program Files\Bristol\TVision\logs

```
0 [main] INFO AppLog - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\logging\Analyzer.Logging.xml"
has been successfully updated
```

```
78 [main] INFO AppLog - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\logging\Migrate.Logging.xml"
has been successfully updated
```

```
141 [main] INFO AppLog - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\logging\Setup.Logging.xml" has
been successfully updated
```

```
219 [main] INFO AppLog - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\logging\UI.Logging.xml" has
been successfully updated
```

## Configuring Database Properties

Retrieving database configuration parameters ...

Type of Database (Oracle or DB2)? [DB2]: *DB2*

If you specify Oracle as the type of database, you will be prompted to enter the following information:

- The driver to use. For Oracle 9, you may specify `thin` or `oci`; `thin` is the recommended client type.

**Note:** For Weblogic to use Oracle JDBC OCI driver, `ORACLE_HOME` must be set in the user profile that runs the server application. Also make sure that the Oracle library is included in the dynamic library load path.

- The port number for the Oracle listener.

For more information about using Oracle with TransactionVision, see the *TransactionVision Analyzer Installation and Configuration Guide*.

Value of your environment variable `DB2INSTANCE` [DB2]: *DB2*

**Important!** Before starting your WebSphere 5 server, your `DB2INSTANCE` environment variable must be set. Failure to set this variable will cause a failure during TransactionVision startup and cause the WebSphere server to fail to start and initialize.

Database connection name to be used by TransactionVision  
[TVISION]: *TVDB*

Enter the name of the database connection to be used.

Name of database TransactionVision connects to [TVISION]:  
*TVDB*

Enter the name of the database on the server to connect to.

Name of the host the database is running on [*local\_host*]:  
*devpc*

Enter the name of the host the database server is running on.

Database user name [db2admin]:

Enter the user name to be used while making the database connection. Leave blank to use the currently logged in user to make the database connection.

User password [ibmdb2]:

Enter the password to be used while making the database connection. Leave blank to use the currently logged in user's password to make the database connection.

**Important!** The `TVisionSetupInfo` utility automatically searches for an installed JCE provider that supports the DES encryption algorithm. If such a provider is found, `TVisionSetupInfo` sets the `jce_provider` value in the `Database.properties` file to the class name of the JCE provider. If no JCE provider is found, `TVisionSetupInfo` displays the following message:

```
Java Cryptography Extension (JCE) is not present in your
current JDK. Password encryption feature will be disabled
and stored in plain text.
```

```
2004-08-23 18:14:40,338 [main] - TransactionVision
Info(FileUpdated): File C:\Program
Files\Bristol\TVision\config\datamgr\Database.properties"
has been successfully updated
```

## Configuring Messaging System Provider

Please select your Queuing Product Type by number.

1. WebSphere MQ
2. TIBCO EMS
3. All of the above

Your Queuing Product [1]: 3

Enter the number corresponding to the messaging system provider you wish to use to transfer configuration and event messages between the Analyzer and Sensors. `TVisionSetupInfo` uses this information to generate the proper shell script to set up the Analyzer runtime environment correctly. If the Analyzer will collect event from both IBM WebSphere MQ communication links and TIBCO EMS communication links, select option 3.

## Configuring Installation Paths for Dependent Software

```
Retrieving installation path for dependent software tools
...
```

```
DB2 installation location [C:\Program Files\sqlllib]:
```

```
WebSphere MQ installation location [C:\Program
Files\IBM\WebSphere MQ]:
```

```
2004-08-23 18:14:45,995 [main] - TransactionVision
Info(FileUpdated): File C:\Program
```

```
Files\Bristol\TVision\config\setup\DefaultInstallPath.xml"
has been successfully updated
```

## TransactionVision Analyzer Settings

Please select your Sensor types by number. This enables the Analyzer to receive events from the selected Sensors. If you are selecting multiple Sensor types, please separate them with ",".

1. CICS
2. EJB
3. WebSphere MQ JMS
4. TIBCO EMS JMS
5. Servlet
6. WebSphere MQ
7. WebSphere MQ IMS Bridge
8. All of the above

Your Sensor type(s) [8] :

Enter the number corresponding to the types of TransactionVision Sensors you plan to use. For multiple Sensor types, separate the numbers with a comma. For all Sensor types, enter **8**.

## Customize the Analyzer Runtime Environment

The Analyzer can optionally be customized by plugin beans in JAR files.

The location of these JAR files needs to be added to the Analyzer CLASSPATH.

Please specify a semicolon delimited list of any additional JAR files you wish to be added to the CLASSPATH. (for example, 'C:\TVision\myext.jar;C:\TVision\myutil.jar') []:

```
2005-04-14 09:07:02,506 [main] - TransactionVision
Info(FileUpdated): File "Z:\tvision\media\TVision\config\
services\Analyzer.properties" has been successfully updated
```

Specify the location of any JAR files that need to be added to the Analyzer CLASSPATH. These JAR files contain plugin beans that customize the Analyzer.

## Selecting Web Application Server

Please select your web application server by number:

1. IBM WebSphere Application Server
2. BEA WebLogic
3. None

Your web application server product [1]: 2

Enter **2** for WebLogic. The following question appears:

WebLogic installation location [C:\bea\weblogic81]:  
enter\_your\_weblogic\_install\_directory

2004-08-23 18:14:48,745 [main] - TransactionVision  
Info(FileUpdated): File "C:\Program  
Files\Bristol\TVision\bin\WebSetupEnv.bat" has been  
successfully updated

## Configuring LDAP Properties

Retrieving LDAP configuration parameters ...

TransactionVision provides an insecure DEMO mode which does not require an LDAP server setup. This mode provides four default accounts: Admin, Developer, Operator and User for logging into the system. Make sure to use this DEMO mode only for evaluation and test purposes and not to collect critical data.

Do you want to run TransactionVision in DEMO mode? (Y/N)  
[Y]: N

The following prompts only appear if you answer N to the previous prompt, indicating that you do **not** want to use DEMO mode:

LDAP server name points to the server to connect to. Its value should contain a URL string such as "ldap://somehost:389".

LDAP server name [ldap://server\_host:server\_port]:  
ldap://devpc:389

Enter the URL of the server to connect to. It directly maps to the attribute of `java.naming.provider.url`, used in creating an initial JNDI context.

User directory location specifies to the web application what path to lookup users under for authentication and retrieval of TransactionVision authorities.

User directory location [ou=Users,ou=TVision,o=bti,c=us]:

Enter the path for the TransactionVision web user interface to use to look up users for authentication and retrieval of TransactionVision authorities. If you wish to use an existing user hierarchy, use this attribute to integrate with the existing directory structure. When a user logs in, the user name is combined with the `UserDirectoryLocation` to perform authentication. For example, if user `joesmith` logs into the web application and the value of this

property is `ou=Users,o=MyOrg,c=us` TransactionVision attempts to authenticate `cn=joesmith,ou=Users,o=MyOrg,c=us`.

TransactionVision creates by default a user location under `ou=Users,ou+TVision,o=bristol,c=us` if you do not wish to use an existing user directory. In order to have TransactionVision permissions, users in this directory must have a `TVAuthorityGroup` attribute. See the *TransactionVision Administrator's Guide* for more information.

Group directory location specifies to the web application what path to lookup user groups under for authentication and retrieval of TransactionVision authorities.

Group directory location `[ou=Groups,o=bti,c=us]`:

This property, similar to the user directory, specifies where to look up user groups. A group is considered to be a definition with one or more unique member attributes (such as the `groupofuniquenames` class) containing the list of users, and a `TVisionAuthorityGroup` attribute indicating what permissions to give this group.

```
2004-08-23 13:42:05,162 [main] - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\ldap\Ldap.properties" has been
successfully updated
```

## Configuring WebLogic Application Server Properties

For the WebLogic application server, the following prompts appear:

The following configuration parameters are required for setting up the TransactionVision web application in WebLogic.

Note: The parameter values are case sensitive.

Retrieving WebLogic configuration parameters ...

```
WebLogic Admin Server name [your_adminserver_name]:
AdminServer
```

```
WebLogic Admin Server host [your_adminserver_host]: mypc
```

```
WebLogic Admin Server port [your_adminserver_port]: 7080
```

```
WebLogic User Name for Admin Server [your_user_name]:
user_name
```

```
WebLogic User Password for Admin Server [your_password]:
password
```

```
Directory for WebLogic domain which you are configuring
[your_domain_dir]:
C:\bea\user_projects\domains\myworkdomain
```

```
Name of WebLogic Server where TransactionVision will be
deployed [your_server_name]: DevServer
```

```
2004-08-23 13:26:57,273 [main] - TransactionVision
Info(FileUpdated): File "C:\Program
Files\Bristol\TVision\config\weblogic\tvision-wl-
config.properties" has been successfully updated
```

```
2004-08-23 13:27:01,379 [main] - TransactionVision
Info(ScriptCreationSuccessful): Script
"C:\bea\user_projects\domains\myworkdomain\
tvStartWebLogic.cmd" created successfully.
```

```
2004-08-23 13:27:01,509 [main] - TransactionVision
Info(ScriptCreationSuccessful): Script
"C:\bea\user_projects\domains\myworkdomain\
tvStartManagedWebLogic.cmd" created successfully.
```

Note that the following scripts are created:

- tvStartWebLogic.cmd
- tvStartManagedWebLogic.cmd

Use these scripts instead of the WebLogic scripts for starting a WebLogic server. For detailed information about how these scripts differ from the original WebLogic scripts, see Appendix D.

### Completion Information

```
2004-08-23 18:14:53,854 [main] - TransactionVision
Info(TVisionSetupInfoSuccess)
: TVisionSetupInfo has completed successfully.
```

All program output and user input are logged to "C:/Program Files/Bristol/TVision/logs/setup.log".

Please run `TVisionSetup` to complete TransactionVision setup.

**Important!** Note that for WebLogic, `TVisionSetupInfo` creates the following two files. Once you deploy the TransactionVision Web Application, use these files rather than the ones supplied by WebLogic to start WebLogic Admin and Managed Servers:

- `tvStartWebLogic.` [sh|cmd]  
Starts the WebLogic Admin server. You **must** run this before continuing with `TVisionSetup`.

- **tvStartManagedWebLogic**. [sh|cmd]  
Starts the WebLogic Managed server. If the WebLogic Server where you plan to deploy the TransactionVision Web Application is a managed server, you **must** run this before continuing with **TVisionSetup**.

## Using TVisionSetup

Run **TVisionSetup** once after installation. You can use this utility to do any or all of the following:

- Initialize the database for TransactionVision, or verify that the database is initialized
- Verify that WebSphere MQ or TIBCO is set up for TransactionVision
- Initialize the TransactionVision Analyzer, or verify that the Analyzer is initialized
- Initialize LDAP entries for TransactionVision, or verify that LDAP entries are initialized
- Install the TransactionVision Web Application in your WebLogic application server, or verify that it is installed

### Before You Begin

Before you run **TVisionSetup**, you must set the correct database environment in your user environment and start required WebLogic servers with the scripts generated by **TVisionSetupInfo**.

#### Set Correct Database Environment

To run **TVisionSetup**, the correct database environment must be set in your user environment:

- For IBM DB2, the DB2INSTANCE environment variable must be set and you must have database access rights. For Oracle, this includes checking that the user has database access rights and, if necessary, that the ORACLE\_HOME environment variable is set.
- A database to store TransactionVision data must be created before running **TVisionSetup**.

Refer to your IBM DB2 or Oracle documentation for further information on database setup.

#### Start WebLogic Servers

Before running **TVisionSetup**, you must start the WebLogic Admin Server with the **tvStartWebLogic** script created by **TVisionSetupInfo**.

If you plan to deploy the TransactionVision Web Application on a Managed Server, you must also run `tvStartManagedWebLogic`.

## Required Information

For most tasks, `TVisionSetup` uses information provided in the `TVisionSetupInfo` utility. However, some tasks may require you to enter additional information. Please review these information requirements before running `TVisionSetup` so you will be prepared to enter appropriate responses.

### Verify WebSphere MQ Setup

To verify WebSphere MQ setup for TransactionVision, you must supply the following information:

- The name of the WebSphere MQ queue manager you wish to verify
- Whether to test the server connection and/or the client connection. If you test the client connection, you must enter the following:
  - Queue manager host name
  - Queue manager channel name
  - Queue manager port number

### Verify TIBCO Setup

To verify TIBCO setup for TransactionVision, you must supply the following information:

- The name of the TIBCO EMS server host you wish to verify
- The port number of the TIBCO EMS server you wish to verify
- The user name you wish to use to connect to the TIBCO EMS server
- The password for the specified user name

### Initialize Analyzer

Once the Analyzer is initialized, you must specify whether to start the Analyzer.

### Initialize LDAP

To initialize LDAP entries for TransactionVision, you must enter the following information:

- User name. This is the distinguished name for authentication. The specified user should have authority to create new LDAP entry.
- Password for the specified user name.

- Default group directory location. Specify the location where the TransactionVision related security definitions will be stored. It can be any valid path in your directory structure. If you are running this LDAP server only for TransactionVision, the typical directory location could be the root directory (the name of your suffix, for example: o=bti,c=us). If you are integrating with an existing LDAP server, consult with your LDAP server administrator to determine the location where these objects should be stored.
- Whether to create the default root suffix. If you have not yet defined the LDAP suffix you wish to place TransactionVision objects under (for example, “o=bti,c=us”), you must first define this suffix using your LDAP administration tools before continuing. Once the suffix has been defined, you can either manually create the suffix node or you can have it created for you by answering yes to this prompt.
- Whether to create the default Admin user. Answer **Y** to create an Admin user object that has privileges to access TransactionVision. This user object is created using the default user object template. If you have existing or non-default users in your LDAP environment that you want the TransactionVision Admin user to be part of, create this user manually using those templates. For more information, see the “Managing Users” chapter of the *TransactionVision Administrator’s Guide*.

### TVisionSetup Syntax

Use the following commands to run **TVisionSetup**:

| Operating System    | Script Command                      |
|---------------------|-------------------------------------|
| AIX, Linux, Solaris | <TVISION_HOME>/bin/TVisionSetup.sh  |
| Windows             | <TVISION_HOME>\bin\TVisionSetup.bat |

The syntax for **TVisionSetup** is as follows:

```
<TVISION_HOME>/bin/TVisionSetup [-rmiregp PORTNUMBER]
[-installweb] [-clearweb] [-h]
```

- The default port number where the Analyzer listens for RMI calls is 1099; use the `-rmiregp` option to specify a different port number.
- Use the `-installweb` option to install the TransactionVision Web Application in your application server.
- Use the `-clearweb` option to uninstall the TransactionVision Web Application from your application server.
- Use the `-h` option to print the usage message for this utility.

**TVisionSetup** must be run in a user environment which has the correct database environment set. For IBM DB2 this includes checking the DB2INSTANCE environment variable setting and that the user has database access rights. Refer to your IBM DB2 manual for further information.

To use **TVisionSetup** to configure the TransactionVision web user interface on a WebLogic managed server, you must login as root or have Administration rights. Otherwise, some of the WebLogic configuration files (such as embedded LDAP files) cannot be accessed. To use the embedded WebLogic LDAP server, see the “Managing Users” chapter of the *TransactionVision Administrator’s Guide* before running **TVisionSetup**.

### TVisionSetup Menus

This command provides different menus, depending on whether the host is a WebSphere or WebLogic AppServer with the TransactionVision web user interface installed, and whether LDAP demo mode is used.

Enter the number corresponding to the desired menu action, or enter **99** to perform all actions. The results of each menu action are displayed as they are performed; press the Enter key to continue with the next menu item. Some menu actions require user input.

The following menu appears if WebSphere Application Server and the TransactionVision web user interface are installed, and the DEMO mode is **not** used:

1. Initialize database for TransactionVision
2. Verify database initialization for TransactionVision
  
3. Verify WebSphere MQ setup for TransactionVision
4. Verify TIBCO setup for TransactionVision
  
5. Initialize TransactionVision Analyzer
6. Verify TransactionVision Analyzer initialization
  
7. Initialize LDAP entries for TransactionVision
8. Verify LDAP initialization for TransactionVision
  
9. Install TransactionVision web application
10. Verify TransactionVision web application installation
  
99. Select all
- V. Display version info for software

Type "quit" or "q" to exit

If demo mode is used, or the application server or TransactionVision web user interface are not installed, certain items are omitted from the menu. If an item is omitted, the remaining items are renumbered in sequence.

- If you specified in `TVisionSetupInfo` to use DEMO mode for LDAP, items 7 and 8 are omitted from the menu.
- If the WebLogic application server or TransactionVision web user interface are not installed, items 7, 8, 9, and 10 are omitted from the menu.

## TVisionSetup Prompts

The following sections describe the required input for each menu item.

### 1. Initialize database for TransactionVision

No input required. Note that this menu item always creates the TVision schema in the default tablespace. To use a different tablespace, run the `CreateSqlScript` script the `-ts` option.

### 2. Verify Database initialization for TransactionVision

No input required.

### 3. Verify WebSphere MQ setup for TransactionVision

This menu item displays the following output and prompts:

```
Verifying WebSphere MQ Java setup for TransactionVision ...
```

```
Please specify WebSphere MQ queue manager name:
```

```
Do you want to test WebSphere MQ server connection? (Y/N)
[N]:
```

```
TransactionVision Info(MQInitialized): WebSphere MQ is
loaded properly for WebSphere MQ server connection
```

```
Do you want to test WebSphere MQ client connection? (Y/N)
[N]:
```

**Important!** If you answer **Y**, the following you are prompted to enter the following additional information:

```
Host name for WebSphere MQ queue manager:
```

```
Channel name for WebSphere MQ queue manager:
```

```
Port number for WebSphere MQ queue manager:
```

```
Hit <Enter> to continue ...:
```

### 4. Verify TIBCO sertup for TransactionVision

This menu item displays the following output and prompts:

```
Verifying TIBCO EMS setup for TransactionVision ...
```

TIBCO EMS Server Host Name []:

TIBCO EMS Server Port Number []:

User Name []:

Password []:

Testing TIBCO EMS server connection ...

```
2005-04-12 09:21:35,631 [main] - TransactionVision
Info(TIBCOInitialized): TIBCO is loaded properly for TIBCO
connection
```

Hit <Enter> to continue....:

### 5. Initialize TransactionVision Analyzer

This menu item displays the following output and prompts:

```
Initializing TransactionVision Analyzer ...
```

```
Do you want to start TransactionVision Analyzer? (Y/N) [Y]:
```

Hit <Enter> to continue ....:

### 6. Verify TransactionVision Analyzer initialization

No input required.

### 7. Initialize LDAP entries for TransactionVision

This menu item displays the following output and prompts:

```
Initializing LDAP for TransactionVision ...
```

```
User name is used as the distinguished name for
authentication. Specified user should have authority to
create new LDAP entry.
```

```
Logon user name:
```

```
User password:
```

```
Directory location to create default TransactionVision
group :
```

Specify the location where the TransactionVision related security definitions will be stored. It can be any valid path in your directory structure. If you are running this LDAP server only for TransactionVision, the typical directory location could be the root directory (the name of your suffix, for example: o=bti,c=us). If you are integrating with an existing LDAP server, consult with your LDAP server administrator to determine the location where these objects should be stored.

If you have not yet defined the LDAP suffix you wish to place TransactionVision objects under (for example,

"o=bti,c=us"), you must first define this suffix using the LDAP administration tools before continuing. Once the suffix has been defined, you can either manually create the suffix node or you can have it created for you by answering yes to the below question.

Do you want to create default root suffix? (Y/N) [N]: y  
Root suffix name:

Do you want to create default Admin user? (Y/N) [Y]:

Answer **Y** to create an Admin user object that has privileges to access TransactionVision. This user object is created using the default user object template. If you have existing or non-default users in your LDAP environment that you want the TransactionVision Admin user to be part of, create this user manually using those templates. For more information, see the "Managing Users" chapter of the *TransactionVision Administrator's Guide*.

Continue to initialize the LDAP entries for TransactionVision? (Y/N) [Y]:

Hit <Enter> to continue ...:

## 8. Verify LDAP initialization for TransactionVision

This menu item displays the following output and prompts:

Verifying LDAP initialization for TransactionVision ...

User name is used as the distinguished name for authentication. Specified user should have authority to read LDAP entries.

Logon user name (ex. cn=root):

User password:

Enter directory location where the default TransactionVision objects were created:

Continue to verify the LDAP entries for TransactionVision? (Y/N) [Y]:

If you have created default Admin user, do you want to test its login (Y/N) [N]:

Hit <Enter> to continue ...:

## 9. Install TransactionVision web application

**Important!** Before performing this step, make sure you use the **tvStartWebLogic** script created by **TVisionSetupInfo** to start the WebLogic Admin Server. If you are deploying the TransactionVision Web

Application on a WebLogic Managed Server, you must also run **tvStartManagedWebLogic**.

For the WebLogic application server, this menu item displays the following output and prompt if you are deploying the TransactionVision Web Application on the Admin Server:

```
Installing TransactionVision web application for WebLogic.
This may take a few minutes...
```

```
You are deploying TransactionVision web application to your
Admin Server.
```

```
If your WebLogic Administration Server has not been started
by script "C:\bea\user_projects\domains\integration\
tvStartWebLogic.cmd", please restart it before proceeding
with this procedure in order to correctly set up
TransactionVision web application.
```

```
Do you want to continue? (y/n) [y]: y
```

If you are deploying on a Managed Server and the TransactionVision Web Application has **not** been previously installed, this menu item displays the following output and prompt:

```
Installing TransactionVision web application for WebLogic.
This may take a few minutes...
```

```
In order to proceed with the TransactionVision web
application installation, your WebLogic Managed Server must
be restarted. In order to automatically restart your
WebLogic Managed Server it must be configured to be
remotely started through your WebLogic Administration
Server, and your WebLogic Node Manager must be running. If
this is the case, and you wish to restart your server now,
answer yes to automatically restart your server. If this
is not the case then you will need to restart your server
manually using the script at 'C:\bea\user_projects\domains\
integration\tvStartManagedWebLogic.cmd', before you can use
TransactionVision.
```

```
Attempt to automatically restart this WebLogic Managed
Server? [y/n] [y]:
```

If you are deploying on a Managed Server where the TransactionVision Web Application has been previously installed, this menu item displays the following output and prompt:

```
Installing TransactionVision web application for WebLogic.
This may take a few minutes...
```

```
A web application named TransactionVision has already been
installed on the server. It has to be uninstalled before
proceeding with the installation.
```

Do you want to uninstall it? (y/n) [n]: y

In order to proceed with the TransactionVision web application installation, your WebLogic Managed Server must be restarted. In order to automatically restart your WebLogic Managed Server it must be configured to be remotely started through your WebLogic Administration Server, and your WebLogic Node Manager must be running. If this is the case, and you wish to restart your server now, answer yes to automatically restart your server. If this is not the case then you will need to restart your server manually using the script at 'C:\bea\user\_projects\domains\integration\tvStartManagedWebLogic.cmd', before you can use TransactionVision.

Attempt to automatically restart this WebLogic Managed Server? [y/n] [y]:

Note that you **must** uninstalled the previously installed TransactionVision Web Application before deploying the new installation.

#### 10. Verify TransactionVision web application installation

No input required.



---

## Chapter 6

# Configuring Web Application Logging

## Log Files

By default, all TransactionVision components log error and warning messages to the appropriate log files. The location of log files is specified when you run `TVisionSetupInfo` or `SensorSetup` and stored in the `Setup.properties` file.

The Web Application logs error messages to the `ui.log` file.

## Circular Logging

By default, the Web Application employs a form of circular logging. When the log file reaches the configured maximum size, it is renamed as a backup file and a new, empty log file is created. By default, the maximum log size is 10 MB and there is one backup log file.

Using the defaults, when a log file (for example, the Web Application log file `ui.log`, reaches 10 MB in size, it is renamed `ui.log.1` and a new `ui.log` file is created. If you change the configuration so that there are two backup files, the following events take place when `ui.log` reaches 10 MB:

1. `ui.log.2` is removed if it exists.
2. `ui.log.1` is renamed `ui.log.2`.
3. `ui.log` is renamed `ui.log.1`.
4. A new `ui.log` is created.

If you do **not** wish to use circular logging, you may change the configuration to use linear logging, in which a single log file is generated.

The `<TVISION_HOME>/config/logging/*.Logging.xml` files specify the type of logging used, the maximum log file size, and the number of backup log files for each component. For example, `Sensor.Logging.xml` specifies the configuration for the servlet and JMS Sensors. This file contains entries similar to the following:

```
<appender
class="tvision.org.apache.log4j.RollingFileAppender"
name="SENSOR_LOGFILE">
 <param name="File" value="c:/Program
Files/Bristol/TransactionVision/logs/sensor.log"/>
 <param name="Append" value="true"/>
 <param name="MaxBackupIndex" value="2"/>
 <param name="MaxFileSize" value="10MB"/>
 <layout class="tvision.org.apache.log4j. PatternLayout">
 <param name="ConversionPattern" value="%d [%t] %-5p %c
%x - %m%n"/>
 </layout>
</appender>
```

### Maximum Log File Size

To change the maximum size of the log file, change the value of the `MaxFileSize` parameter to the desired size. Values provided should end in "MB" or "KB" to distinguish between megabytes and kilobytes.

### Maximum Number of Backup Log Files

To change the number of backup files, change the value of the `MaxBackupIndex` parameter to the desired number of backup files.

### Changing from Circular to Linear Logging

To use linear logging rather than circular logging, do the following:

1. In the appender class value, change `RollingFileAppender` to `FileAppender`. For example, in the previous example, change the first line to the following:

```
<appender
class="tvision.org.apache.log4j.FileAppender"
name="SENSOR_LOGFILE">
```

2. Remove the entries for the `MaxBackupIndex` and `MaxFileSize` parameters.

## Trace Logging

Trace logging provides verbose information of what a TransactionVision Analyzer is doing internally. It is used mainly to troubleshoot problems and should **not** be turned on in production environments.

To enable trace logging for the TransactionVision web user interface, set the value of the trace property in the `<TVISION_HOME>/config/ui/UI.properties` file to on. After modifying this configuration file, you must restart the web user interface for the change to take effect. To restart the TransactionVision web user interface, use your application server administration console.

## Using Windows and UNIX System Logs

On UNIX and Windows platforms, you can configure TransactionVision to log output to the system event logging facilities—the event log for Windows or syslog for UNIX. Examples of the logging configuration files needed to do this can be found in

`TVISION_HOME/config/logging/system/*/Sensor.Logging.xml`.

For both Windows and UNIX, you must define a specialized event appender.

### Windows Event Appender

The following example shows how to configure the Windows event appender to use the event log:

```
<appender name="NT_EVENT_LOG"
class="tvision.org.apache.log4j.nt .NTEventLogAppender">
 <layout class="tvision.org.apache.log4j.PatternLayout">
 <param name="ConversionPattern" value="%d [%t] -
%m%n"/>
 </layout>
</appender>
```

`NT_EVENT_LOG` can then be referenced in a category definition of your choice. For example:

```
<category additivity="false"
class="com.bristol.tvision.util.log.XCategory"
name="sensorLog">
 <priority class="com.bristol.tvision.util.log.XPriority"
value="info"/>
 <appender-ref ref="NT_EVENT_LOG"/>
</category>
```

On Windows, you must also add a special DLL to your path. This DLL, **NTEventLogAppender.dll**, can be found in the `config\logging\system\bin` directory. For example:

```
set path=%TVISION_HOME%\config\logging\system\bin;%PATH%
```

### UNIX Event Appender

The following example shows a UNIX event appender to use syslog:

```
<appender name="SYSLOG"
class="tvision.org.apache.log4j.net.SyslogAppender">
 <param name="SyslogHost" value="localhost"/>
 <param name="Facility" value="local0"/>
 <layout class="tvision.org.apache.log4j.PatternLayout">
 <param name="ConversionPattern" value="[%t] %-5p %c
%x
- %m%n"/>
 </layout>
</appender>
```

Specify the SyslogHost and Facility parameters as appropriate for your environment.

---

## Chapter 7

# Integrating TransactionVision with Tivoli Enterprise Console

This section describes how TransactionVision integrates with the Tivoli Enterprise Console (TEC). This integration allows TransactionVision to send events into TEC.

Events generated by TransactionVision can be of two types:

- Internal events, generated by TransactionVision components, Analyzer and UI
- Application events, generated by plugin beans in the Analyzer or scheduled jobs in the user interface components of TransactionVision

## TEC Integration Setup

Setting up TransactionVision's integration with TEC involves TEC server side setup as well as TransactionVision Analyzer and user interface setup.

### TEC Server Side Setup

TEC server side setup enables the reception of TransactionVision events (BTV) into TEC by readying the current TEC rulebase, or by creating a new TEC rulebase by cloning the currently loaded rulebase with the addition of the appropriate BTV class definitions and ruleset. In either scenario, you may load the newly configured rulebase when you run `install.sh`, or at a later time.

### TransactionVision Analyzer and User Interface Setup

Error messages as well as audit logs from the TransactionVision Analyzer and user interface components can be routed to TEC. TransactionVision uses the log4j package (<http://logging.apache.org/log4j/docs>) for all logging. By default, these log messages are sent into text files.

TransactionVision provides an appender (TECAppender) to route these messages into TEC.

## Installation and Setup

### TEC Server Side Setup

**Important!** Perform the TEC server side setup **before** enabling the TransactionVision Analyzer or user interface for generating TEC events. Otherwise, events of undefined classes can be passed to TEC. The TEC server side setup can be done independently of the TransactionVision side setup.

#### Installation Requirements:

- Run this Pac at the TEC server.
- Unix UID with privileges to execute into, and write to the TEC rulebase directory tree
- Tivoli Admin with at least "Senior" authorization

#### Instructions

1. Untar the file `<TVISION_HOME>/tivoli/TVisionTEC.tar` in a scratch directory. The scratch directory will be populated with the following files:
  - `Install.sh`
  - `README`
  - `btv.baroc`
  - `btv.rls`
  - `btv_escalate.sh`
  - `btv_take_action.sh`
2. Run `Install.sh` locally from within that directory. Follow online prompts.
3. If utilizing ITM, download `TVision_ITM_RM.tar` from the directory `<TVISION_HOME>/tivoli` on the Analyzer installation host to the ITM host. Copy it to the resource model tar directory (ex. `/usr/local/Tivoli/bin/lcf_bundle.40/Tmw2k/Rm`) and import into ITM.

After install, the scratch directory and all its contents may be deleted.

### Additional Information:

The `btv.rls` ruleset will be loaded by default as "last in line" in the `rule_sets` and `rule_sets_EventServer` datasets. A class definition file (`btv.baroc`) and ruleset (`btv.rls`) will be loaded. If manual loading of these files is preferred, do not run the `Install.sh` script.

The rules are delivered in a "commented out" state, and need to be uncommented and recompiled and loaded for use as desired. Ruleset include dupe detect, 1st action, and escalation rules. The action and escalation scripts should be inserted into the TEC scripts directory. Rules and action scripts need to be tailored to your environment before uncommenting. This does not stop the installation of the class definitions and the readying of the TEC server to accept TransactionVision events.

## TransactionVision Analyzer and User Interface Setup

To enable TransactionVision to write events into TEC, you must modify `log4j` configuration files to use the `TECAppender`.

1. Edit the Analyzer `log4j` configuration file

```
<TVISION_HOME>/config/logging/Analyzer.Logging.xml.
```

To enable error logs to be sent into TEC, add the line in bold below:

```
<category name="AppLog"
class="com.bristol.tvision.util.log.XCategory"
additivity="false">
 <priority value="info"
class="com.bristol.tvision.util.log.XPriority"/>
 <appender-ref ref="ANALYZER_LOGFILE" />
 appender-ref ref="TECAPPENDER" />
</category>
```

To enable audit logs, where every start and stop action is recorded to TEC, add the line in bold below:

```
<category name="AnalyzerActivityLog"
class="com.bristol.tvision.util.log.XCategory"
additivity="false">
 <priority value="info"
class="com.bristol.tvision.util.log.XPriority"/>
 <appender-ref ref="ANALYZER_ACTIVITY_LOGFILE" />
 appender-ref ref="TECAPPENDER" />
</category>
```

2. Edit the file `<TVISION_HOME>/bin/SetupEnv.[sh|bat]` to add the following lines:

On Windows, `SetupEnv.bat` (at the end of the file):

```
set
CLASSPATH=%CLASSPATH%;%TVISION_HOME%\java\lib\evd.jar
set
```

```
CLASSPATH=%CLASSPATH%;%TVISION_HOME%\java\lib\tivlog.jar
```

On UNIX, SetupEnv.sh (before the last line in the file):

```
CLASSPATH=$CLASSPATH:$TVISION_HOME/java/lib/evd.jar
CLASSPATH=$CLASSPATH:$TVISION_HOME/java/lib/tivlog.jar
```

3. Restart the Analyzer for this change to take effect.
4. Edit the UI log4j configuration file

<TVISION\_HOME>/config/logging/UI.Logging.xml on the machine you are running the user interface component on your application server.

To enable error logs to be sent into TEC, add the line in bold below:

```
<category additivity="false"
class="com.bristol.tvision.util.log.XCategory"
name="AppLog">
 <priority
class="com.bristol.tvision.util.log.XPriority"
value="info"/>
 <appender-ref ref="UI_LOGFILE"/>
 <appender-ref ref="TECAPPENDER"/>
</category>
```

To enable audit logs, where every page action by the user is recorded into TEC, add the line in bold below:

```
<category additivity="false"
class="com.bristol.tvision.util.log.XCategory"
name="UIActivityLog">
 <priority
class="com.bristol.tvision.util.log.XPriority"
value="info"/>
 <appender-ref ref="UI_ACTIVITY_LOGFILE"/>
 <appender-ref ref="TECAPPENDER"/>
</category>
```

5. Restart the TransactionVision application loaded within your application server.
6. Edit the file <TVISION\_HOME>/config/logging/tivoli/btv\_tec.cfg file to point to the TEC server host.

```
BufEvtPath=<TEMPDIR>/btv_tec.cache
LogFileName=<TEMPDIR>/btv_tec.log
LogLevel=ALL
ServerLocation=<TEC server name>
ServerPort=0
```

Errors from the log4j TECAppender go into <TVision LOGDIR>/tecappender.log (typically <TVISION\_HOME>/logs/tecappender.log, look in the file

<TVISION\_HOME>/config/setup/Setup.properties to see where this has been set to).

7. A monitoring profile that allows Tivoli ITM to monitor the healthy functioning of the TransactionVision Analyzer process is also available.

Import the supplied Resource Model (`TVisionITM_RM.tar`) into ITM (for example, `wdmrm - add TVisionITM_RM.tar`) and distribute it as usual with respect to ITM. This Resource Model checks the state of the Analyzer and sends an alert to TEC if the Analyzer is deemed down. It is based on ITM V5.1.1



---

## Appendix A Utilities Reference

### MigrateConfig

**Location:**

TVISION\_HOME/bin/MigrateConfig.[sh|bat]

**Description:**

This is an internal script called during TransactionVision installation to migrate configuration files from an older version of TransactionVision to the current version.

***Important!*** Do NOT call this script directly; it may only be run during installation.

## MigrateDB

**Location:**

`TVISION_HOME/bin/MigrateDB.[sh|bat]`

**Description:**

Migrates project database files from an older version of TransactionVision to the current version. This script may be run by the TransactionVision installation process, or at a later time. It must be run in configured TransactionVision environment; the `Database.properties` must be set correctly for communication with the database.

**Syntax:**

`MigrateDB`

## TVisionSetup

**Location:**

TVISION\_HOME/bin/TVisionSetup.[sh|bat]

**Purpose:**

This should be run once after installation. This program helps users setup the LDAP, database, TransactionVision services and WebSphere application.

Different options are presented based on which options are installed and/or running. The following menu appears if WebSphere Application Server and the TransactionVision web user interface are installed, and the DEMO mode is **not** used:

1. Initialize database for TransactionVision
2. Verify database initialization for TransactionVision
  
3. Verify WebSphere MQ setup for TransactionVision
4. Verify TIBCO setup for TransactionVision
  
5. Initialize TransactionVision Analyzer
6. Verify TransactionVision Analyzer initialization
  
7. Initialize LDAP entries for TransactionVision
8. Verify LDAP initialization for TransactionVision
  
9. Install TransactionVision web application
10. Verify TransactionVision web application installation
  
99. Select all
- V. Display version info for software

Type "quit" or "q" to exit

If demo mode is used, or the WebSphere application server or TransactionVision web user interface are not installed, certain items are omitted from the menu. If an item is omitted, the remaining items are renumbered in sequence.

- If you specified in `TVisionSetupInfo` to use DEMO mode for LDAP, items 7 and 8 are omitted from the menu.
- If the WebSphere application server or TransactionVision web user interface are not installed, items 7, 8, 9, and 10 are omitted from the menu.

**Syntax:**

```
TVisionSetup [-rmiregp PORTNUMBER] [-installweb] [-cleanweb] [-h]
```

**Options:**

<b>Option</b>	<b>Description</b>
<code>-rmiregp PORTNUMBER</code>	Port number on which the Analyzer starts. Default to 1099 if not specified.
<code>-installweb</code>	Install the TransactionVision Web Application on the Application Server.
<code>-cleanweb</code>	Uninstall the TransactionVision Web Application from the Application Server.
<code>-h</code>	Displays a usage message.

## TVisionSetupInfo

### Location:

`TVISION_HOME/bin/TVisionSetupInfo.[sh|bat]`

### Purpose:

Collects information from the administrator about external tools used by TransactionVision so that CLASSPATH and library path can be setup correctly before running TransactionVision. This utility performs the following:

- Saves installation path for software tools in `TVISION_HOME/config/setup/DefaultInstallPath.xml`.
- Modifies `TVISION_HOME/config/datamgr/Database.properties` based on user input.
- Modifies `TVISION_HOME/config/ldap/Ldap.properties` based on user input.
- If you are using the WebSphere application server, modifies `TVISION_HOME/config/websphere/tvision-ws-config.properties` based on user input.
- If you are using the WebLogic application server, modifies `TVISION_HOME/config/websphere/tvision-wl-config.properties` based on user input.
- Generates `TVISION_HOME/bin/SetupEnv.[sh|bat]` which sets the minimum set of environment variables (`JAVA_HOME`, `CLASSPATH`, shared library path for different platforms, etc.) required by TVision.
- If you are using the WebSphere application server, generates `TVISION_HOME/install/websphere/WSSetupEnv.[sh|bat]` to setup command line parameters for importing different `.xml` files to `XMLConfig`.

### Syntax:

`TVisionSetupInfo.[sh|bat]`

### Notes:

`TVISION_HOME/config/setup/Setup.properties` is used to specify the XML file that stores the default software installation path and setup logging file.

User is free to modify any modified/generated files later on.

Since this utility modifies TransactionVision's configuration files, the user needs to have file modification privilege to run it (root on Unix or Administrator on Windows).

The format of `TVISION_HOME/config/setup/DefaultInstallPath.xml` is as follows:

```
<?xml version="1.0"?>
<DefaultInstallPath>
 <OS name="Windows">
 <DB2>C:\Program Files\IBM\sqlllib</DB2>
 <WebSphereMQ>C:\Program Files\IBM\WebSphere
MQ</WebSphereMQ>
 <WebSphereMQJava>C:\Program Files\IBM\WebSphere
MQ\Java</WebSphereMQJava>
 <WebSphereAppServer>C:\Program Files\Websphere\
AppServer</WebSphereAppServer>
 <WebLogic>C:\bea\weblogic81</WebLogic>
 </OS>
 <OS name="SunOS">
 <DB2>/opt/IBMdb2/V7.1</DB2>
 <Oracle></Oracle>
 <WebSphereMQ>/opt/mqm</WebSphereMQ>
 <WebSphereMQJava>/opt/mqm/java</WebSphereMQJava>
 <WebSphereAppServer>/opt/WebSphere/AppServer
</WebSphereAppServer>
<WebLogic>/usr/local/bea/weblogic81</WebLogic>
 </OS>
 <OS name="AIX">
 <DB2>/usr/lpp/db2_07_01</DB2>
 <Oracle></Oracle>
 <WebSphereMQ>/usr/lpp/mqm</WebSphereMQ>
 <WebSphereMQJava>/usr/lpp/mqm/java</WebSphereMQJava>
 <WebSphereAppServer>/usr/WebSphere/AppServer
</WebSphereAppServer>
<WebLogic></WebLogic>
 </OS>
 <OS name="Linux">
 <DB2>/usr/IBMdb2/V7.1</DB2>
 <Oracle></Oracle>
 <WebSphereMQ>/opt/mqm</WebSphereMQ>
 <WebSphereMQJava>/opt/mqm/java</WebSphereMQJava>
 <WebSphereAppServer>/opt/WebSphere/AppServer
</WebSphereAppServer>
 <WebLogic></WebLogic>
 </OS>
</DefaultInstallPath>
```

---

## Appendix B

# Configuration Files

The TransactionVision setup utilities save Web Application configuration information necessary for TransactionVision to operate in the following configuration files. You may also modify these files directly if you need to make any changes to your configuration.

**Important!** If you modify property files, you must restart the associated application for you changes to take effect. To restart the TransactionVision web user interface, use your application server administration console.

### JobManager.properties

The `<TVISION_HOME>/config/jobs/JobManager.properties` file specifies configuration information for TransactionVision jobs. This file specifies the following properties:

- `BeansXMLFile`  
Specifies the location of the configuration file listing job templates available when you create a new project.
- `logSize`  
Specifies the number of entries to keep in the log file.

### Ldap.properties

The `<TVISION_HOME>/config/ldap/Ldap.properties` file specifies how the web user interface interacts with an LDAP server. This file specifies the following properties:

- `LDAPServerName`
- `ContextFactory`
- `UserDirectoryLocation`

- GroupDirectoryLocation
- UseSSL
- CertificateTrustStore
- CryptProvider
- UseUID
- RDNPrefix

### LDAPServerName

This property points to the server to connect to. It directly maps to the attribute of `java.naming.provider.url`, used in creating an initial JNDI context. The value of this property should contain a URL string (for example, `ldap://somehost:389`).

### ContextFactory

This property contains the Java class name to be created as the initial context factory, depending on which implementation you wish to use. The value of the property should be the fully qualified class name of the factory class that will create an initial context. If you are using WebSphere 4.0, set it to `com.sun.jndi.LdapCtxFactory`. For WebSphere 3.5.4, set it to `com.ibm.jndi.LDAPCtxFactory`.

### UserDirectoryLocation

This property specifies to the web application what path to use to look up users for authentication and retrieval of TransactionVision authorities. If you wish to use an existing user hierarchy, use this attribute to integrate with the existing directory structure. When a user logs in, the user name is combined with the `UserDirectoryLocation` to perform authentication. For example, if user `joesmith` logs into the web application and the value of this property is `ou=Users,o=MyOrg,c=us` TransactionVision attempts to authenticate `cn=joesmith,ou=Users,o=MyOrg,c=us`.

TransactionVision creates by default a user location under `ou=Users,ou+TVision,o=bristol,c=us` if you do not wish to use an existing user directory. In order to have TransactionVision permissions, users in this directory must have a `TVAuthorityGroup` attribute. See the *TransactionVision Administrator's Guide* for more information.

### GroupDirectoryLocation

This property, similar to `UserDirectoryLocation`, specifies where to look up user groups. A group is considered to be a definition with one or more unique member attributes (such as the `groupofuniquenames` class) containing the list of users, and a `TVisionAuthorityGroup` attribute indicating what permissions to give this group.

To use the `GroupDirectoryLocation` in `TransactionVision`, you must configure the additional items in your LDAP schema and directory tree.

The way that `TransactionVision` expects a group to be laid out is a directory object with a number of `uniqueMember` values corresponding to each user in this group, such as the `groupOfUniqueNames` object class.

In addition to the group members, `TransactionVision` looks for an attribute called `TVAuthorityGroup` in this object. `TVAuthorityGroup` points to the `TransactionVision` security definition to be assigned to all members of this group. To accomplish this task in your LDAP administration interface, you need to define a new schema object. This object should be derived from `groupOfUniqueNames`, or a similar class that contains a `uniqueMember` attribute. To this new object class, add the attribute `TVAuthorityGroup`. This attribute is added to your LDAP schema by the LDAP Initialization steps of `TVisionSetup`, which you need to have already run.

After you have successfully created this schema object, create an instance of it in your directory tree, and assign to it the users that should be a member of it. The following `ldif` definition gives an example of creating such an entry.

```
dn: cn=AdminGroup,ou=TVision,o=bti,c=us
objectclass: TVgroup
objectclass: groupOfUniqueNames
objectclass: top
cn: AdminGroup
TVAuthorityGroup: cn=Admin,ou=Security,ou=TVision,o=bti,c=us
uniqueMember: cn=Joe Smith,ou=Users,ou=TVision,o=bti,c=us
```

The following table describes the contents of the entry:

Value	Description
dn	The name and location of the newly created group. In this example, an object named <code>cn=AdminGroup</code> , located in <code>ou=TVision,o=bti,c=us</code> . The <code>ou=TVision,o=bti,c=us</code> would also be the value to assign the <code>GroupDirectoryLocation</code> property as that is where <code>TransactionVision</code> will find the group.
objectclass	The object class defined to add the <code>TVAuthorityGroup</code> attribute, <code>TVgroup</code> in this example. Change <code>TVgroup</code> to the name you used to create the schema class.
cn	The group name for this user.
TVAuthorityGroup	The location of the privileges to be given this user—in this example <code>cn=Admin,ou=Security,ou=TVision,o=bti,c=us</code> .

<b>Value</b>	<b>Description</b>
<code>uniqueMember</code>	The location of a member of this group. Note that <code>uniqueMember</code> should contain reference to an already existing directory entry, as the directory server will validate it and possibly generate an error if it doesn't exist.

### UseSSL

This property is used in conjunction with `CertificateTrustStore` and `CryptProvider` to enable communication with the LDAP server using SSL. If `UseSSL` is true, SSL will be enabled on the directory connection by setting `Context.SECURITY_PROTOCOL` to “ssl”.

**Important!** To use SLL, JSSE (or another third-party SSL package) extensions must be installed. JSSE is available at <http://java.sun.com>. For more information about setting up SSL, see the *TransactionVision Administrator's Guide*.

### CertificateTrustStore

Set this property to the key store (created by `keytool`) containing the trusted certificate for the LDAP server. The system property `javax.net.ssl.trustStore` is set to this value.

### CryptProvider

Set this property to the Cryptographic Service Provider you wish to register as set by `java.security.Security.addProvider()`. If you are using the standard JSSE package, leave this property set to the default value `com.sun.net.ssl.internal.ssl.Provider`.

### UseUID

If this property is set to true, `TransactionVision` assumes that the user name entered on the login page is the user id (UID) attribute of a user entry in the directory. It attempts to locate and authenticate the user by searching for user entries with the matching UID attribute. If this property is not defined or is set to false, `TransactionVision` assumes the user name entered on the login page is the RDN part of the distinguished name of the user entry in the directory.

### RDNPrefix

If this property is specified, `TransactionVision` uses the prefix value as the name part of the `name=value` pair when it generates the RDN part of the user entry for lookup in the LDAP directory. For example, if the `RDNPrefix` is set to `sn` and the user name is `joe`, then the RDN for this user is `sn=joe`. This will be concatenated with the subdirectory to form a complete distinguished name for directory entry lookup and authentication.

If this property is not set, TransactionVision assumes the prefix value is *cn*.

### Example

The following is an example `Ldap.properties` file:

```
LDAPServerName=ldap://myhost
ContextFactory=com.sun.jndi.ldap.LdapCtxFactory
IBMContextFactory=com.ibm.jndi.LDAPCtxFactory
UserDirectoryLocation=ou=Users,ou=TVision,o=bristol,c=us
GroupDirectoryLocation=ou=Groups,ou=TVision,o=bristol,c=us
```

## License.properties

The `<TVISION_HOME>/config/license/License.properties` file specifies the TransactionVision license code supplied by Bristol Technology.

## Setup.properties

The `<TVISION_HOME>/config/setup/Setup.properties` file specifies the following properties:

- `default_tool_install_path`  
The directory location of the `DefaultInstallPath.xml` file, which lists the locations of software components required by TransactionVision
- `logs_dir`  
The name of the directory in which to store log files
- `logging_xml`  
The name of the logging configuration file
- `minimum_java_version`  
The minimum Java version required by TransactionVision
- `minimum_java_version_sun`  
The minimum Java version required by TransactionVision on the Solaris platform
- `maximum_java_version`  
The highest Java version supported by TransactionVision

## StatisticsCache.properties

The `<TVISION_HOME>/config/services/StatisticsCache.properties` file defines setting used in the static mode of the component topology analysis. It contains the following entries:

- `flush_interval`  
Specifies how often the statistics cache is written out to the database. Until the data is written to the database, it won't be visible in graph. Depending on the volume of incoming requests, it might be useful to either flush more often, or less often. A longer flush time means fewer database writes, but will result in a larger cache size.
- `timeslice_interval`  
Specifies the duration in minutes of the timeslice for which event statistics should be calculated. The concept of a timeslice is used to partition data into different pieces so that depending on what timeframe one is interested in looking at this data can be quickly retrieved. A timeslice represents a period of time during which all events belonging to the same program and MQ object are condensed into a single statistic. For example, if you had a program putting messages to a particular queue, all the statistics data relating to the program and the queue (latency times, success counts, etc.) during a particular timeslice are stored in the same database row. By changing the values of the time slice interval you can control how big and how efficient access to the statistics table is. The larger the timeslice, the more efficient the storage of results will be; the trade-off you lose is that your time slice interval is the smallest increment of time that you can view your data in. For example, if you were to set a time slice of one day, you would not be able to view these statistics on an hourly basis.

## tvision-wl-config.properties

The `<TVISION_HOME>/config/weblogic/tvision-wl-config.properties` file specifies WebLogic application server information for the TransactionVision web user interface. This file specifies the following properties:

- `adminserver_name`  
Specifies the administration server name.
- `adminserver_host`  
Specifies the administration server host name.
- `adminserver_port`  
Specifies the administration server communication port number.
- `admin_user_name`  
Specifies the administration user name.
- `admin_user_password`  
Specifies the administration user password.

- `domain_dir`  
Specifies the domain directory.
- `server_name`  
Specifies the name of the server where TransactionVision will be deployed.

## tvision-ws-config.properties

The `<TVISION_HOME>/config/websphere/tvision-ws-config.properties` file specifies WebSphere application server information for the TransactionVision web user interface. This file specifies the following properties:

- `appserver_node_name`  
Specifies the application server node name.
- `appserver_name`  
Specifies the application server name.
- `virtual_host_name`  
Specifies the virtual host name.
- `cell_name`  
For WebSphere Application Server 5.x, specifies the cell name.
- `root_URL`  
For WebSphere Application Server 4.x, specifies the root URL for the TransactionVision web user interface.
- `adminserver_host`  
For WebSphere Application Server 4.x, specifies the administrative server host name.
- `adminserver_port`  
For WebSphere Application Server 4.x, specifies the administrative server port number.

## UI.properties

The `<TVISION_HOME>/config/ui/UI.properties` file specifies properties used by the TransactionVision web user interface. It contains the following entries:

- `ui_config_dir`  
Specifies the location of the user interface configuration files.
- `view_config_filename`  
Specifies the file defining TransactionVision views.

- `reports_xml_filename`  
Specifies the location of the file listing available reports.
- `category_xml_filename`  
Specifies the location of the query configuration file.
- `category_xsl_filename`  
Specifies the location of the query style sheet.
- `filter_config_xml`  
Specifies the location of the data collection filter configuration file.
- `filter_config_xsl`  
Specifies the location of the data collection filter style sheet.
- `detail_modifier_xsl`  
Specifies the location of the Event Detail view style sheet.
- `logging_xml`  
Specifies the location of the user interface log file.
- `support_url`  
The URL for product support.
- `autologin`  
Enables the “Remember Login” checkbox on the TransactionVision login page. Setting the checkbox causes the user name and password to be saved as a cookie. so that users are not prompted for a username and password the next time they try to access TransactionVision. The password is encrypted using the specified Java JCE provider.
- `jceProvider`  
Specifies the name of the JCE package used to encrypt the password if `autologin` is true. If you don’t have a JCE package, you can download one from `java.sun.com`.
- `trace`  
Enables trace logging for the TransactionVision web user interface. For more information, see “Trace Logging” on page 64.
- `logout_Redirect`  
This property specifies the URL that should be displayed when a user logs out from TransactionVision, such as an SSO logout page.
- `dashboard_xml_filename`  
The dashboard report configuration file name.
- `hasProxySensor`  
Set to True to enable the dynamic Component Topology Analysis view to show proxy related links if you are using the Proxy Sensor.

---

## Appendix C

# TransactionVision Changes to WebSphere Application Server

A number of changes are made to WebSphere Application Server during TransactionVision installation and configuration.

## JVM System Property Settings

The following properties are added to the server's JVM system property settings.

- `com.bristol.tvision.home`  
Specifies the TransactionVision installation directory. This is required by the TransactionVision web user interface and Sensors.
- `com.ibm.websphere.classloader.plugin`  
Loads the TransactionVision Servlet Sensor. It should be set to `com.bristol.tvision.sensor.servlet.ClassLoaderPlugin`.
- `com.bristol.tvision.sensor.disableApps`  
Disables the Servlet Sensor for any application name listed. Delimit multiple applications with a comma, semi-colon, or colon. The default value is `TransactionVision,adminconsole`.

## JVM Classpath Updates

The following are added to the application server's JVM classpath. They are required by the TransactionVision Sensor.

- `<tv_install_dir>/java/lib/tvisionsensorservlet.jar`
- `<tv_install_dir>/java/lib/tvisionsensorejb.jar`
- `<tv_install_dir>/java/lib/tvjavaext.jar`

- <tv\_install\_dir>/java/lib/tvisionsensorjms.jar (if you want to monitor JMS calls)
- <tv\_install\_dir>/java/lib/com.ibm.mqjms.jar (if you want to monitor JMS calls)
- <was\_install\_dir>/lib/j2ee.jar
- <webspheremq\_java\_dir>/lib
- <webspheremq\_java\_dir>/lib/com.ibm.mqjms.jar
- <webspheremq\_java\_dir>/lib/com.ibm.mq.jar
- <webspheremq\_java\_dir>/lib/com.ibm.mqbind.jar
- <webspheremq\_java\_dir>/lib/jta.jar
- <webspheremq\_java\_dir>/lib/connector.jar
- <webspheremq\_java\_dir>/lib/providerutil.jar
- <webspheremq\_java\_dir>/lib/fxcontext.jar

## Added Files

The following files are added to <was\_install\_dir> classes. They are required by the TransactionVision Sensor.

- tvisionsensorcheck.jar
- tvisionservletinstrument.jar

---

## Appendix D

# Configuring Application Servers for TransactionVision

Typically, you can use the TransactionVision `TVisionSetupInfo` and `TVisionSetup` utilities to configure your application server for the TransactionVision web user interface. However, there may be situations where you prefer or are required to configure your application server manually.

The following sections describe the process required to configure the TransactionVision web user interface for IBM WebSphere and BEA WebLogic.

## Configuring WebSphere for TransactionVision

The following tasks are performed by `TVisionSetup`. However, if you prefer, you may perform these steps from the WebSphere Admin console.

- Add `com.bristol.tvision.home` as JVM System property setting
- Add the DB2 or Oracle JDBC driver to a server configuration
- Install and setup the TransactionVision web user interface

### Add `com.bristol.tvision.home` as JVM System Property Setting

1. Select Servers > Application Servers > server1.
2. Select Process Definition > Java Virtual Machine.
3. Select Custom Properties.
4. Click New and add the following:  
Name: `com.bristol.tvision.home`  
Value: `<TVISION_HOME>`

For example:

```
com.bristol.tvision.home = C:\Program
Files\Bristol\TransactionVision
```

### Add the DB2 or Oracle JDBC Driver to a Server Configuration

Perform this task from the WebSphere Admin Console:

1. Select Resources > JDBC Providers.
2. Select the scope you want to use: cell, node, server
3. Click New and select DB2 Legacy CLI-based Type 2 JDBC Driver or Oracle JDBC Driver (depending on what type of database you are using) in the pull down list for field JDBC Providers. Then click OK.

**Note:** For IBM WebSphere Application Server to use Oracle JDBC OCI driver, ORACLE\_HOME must be set in the user profile that runs WebSphere Application Server. Also make sure that the Oracle library is included in the dynamic library load path.

4. Select Environment > Manage WebSphere Variables.
5. Select the scope you want to use: cell, node, server
6. If you are using DB2, find/add the variable "DB2\_JDBC\_DRIVER\_PATH". If it is not already pointed to the right place, set it to the directory where your db2java.zip is located. If you are using Oracle, find/add the variable "ORACLE\_JDBC\_DRIVER\_PATH". If it is not already pointed to the right place, set it to the directory where your class12.zip is located.
7. Save the changes.
8. Restart the server for settings to take effect.

### Install and Set up the TransactionVision Web User Interface

Perform the following steps from the WebSphere Admin Console:

1. Select Applications > Install New Application.
2. Click Browse in section Path to select your tvision.ear file. Click Next.
3. Make your selection in section Virtual Host then click Next.
4. Follow instructions on following pages to finish the installation.
5. Save the changes to Master configuration.
6. Select Servers > Application Servers.

7. Select the server where you have installed TransactionVision web application.
8. Select Process Definition in the list of Additional Properties.
9. Select Java Virtual Machine in the list of Additional Properties.
10. Select Custom Properties in the list of Additional Properties.
11. Add following Name/Value pair:  
    com.bristol.tvision.home = <tv\_install\_dir>
12. Save the changes to Master configuration.
13. Restart the server for the settings to take effect.

## Configuring WebLogic for TransactionVision

The following steps describe the process required to manually configure the TransactionVision web user interface for the BEA WebLogic application server.

### Configure WebLogic for the TransactionVision Web User Interface

To configure WebLogic for the TransactionVision web user interface, you must perform the following tasks:

- Add the required environment setup to the server.
- Deploy the `tvision.ear` file.

#### Add Environment Setup to Admin Server

To deploy a WebLogic Admin Server, copy `startWebLogic. [cmd|sh]` to `tvStartWebLogic. [cmd|sh]` and modify the copied file to add the following environment settings. See “Modify `startWebLogic` and `startManagedWebLogic` Scripts” on page 93 for instructions on modifying these files.

#### Windows:

```
set JAVA_OPTIONS= -Dcom.bristol.tvision.home="<tv_install_dir>"
%JAVA_OPTIONS%
set CLASSPATH=<path_of_jar_file_for_JDBC_driver>;%CLASSPATH%
```

#### UNIX:

```
JAVA_OPTIONS=" -Dcom.bristol.tvision.home="<tv_install_dir>"
$JAVA_OPTIONS"
CLASSPATH="<path_of_jar_file_for_JDBC_driver>:$CLASSPATH"
export CLASSPATH
```

**Important!** Add the classes at the beginning of CLASSPATH. For some domain types, the `startWebLogic` script calls another WebLogic script. In these cases, modify the called script as well, as described in “Modify `startWebLogic` and `startManagedWebLogic` Scripts” on page 93.

### Add Environment Setup to Managed Server

If you plan to start a managed server with the `startManagedWebLogic [.cmd | .sh]` script, copy `startManagedWebLogic. [cmd | sh]` to `tvStartManagedWebLogic. [cmd | sh]` and modify the copied file to add the same environment settings as for monitoring an Admin Server.

**Important!** As with the Admin Server, these classes at the beginning of CLASSPATH. Any scripts called from startManageWebLogic must be updated as well.

If you plan to start a managed server via the Node Manager using the Admin Console, perform the following steps:

1. Select your server name under Servers in the left panel.
2. Select the Configuration tab in the right panel.
3. Select the Remote Start tab in the right panel.
4. Add the following jar files to the Class Path field:
  - Full path of the jar file for the JDBC driver class. For example:  
<db2\_install>\java\db2java.zip
  - <weblogic\_install>\server\lib\weblogic.jar
5. Add the following Java option to the Arguments field:  
-Dcom.bristol.tvision.home="<tvision\_install>"
6. Click Apply at the end of the page.
7. Restart the server.

### Deploy tvision.ear File

To deploy the `tvision.ear` file with **WebLogic 8.1**, perform the following steps:

1. In the left panel, choose Deployments > Applications.
2. In the right panel, select the Deploy a new Application link.
3. Navigate to your <tvision\_install>\ui directory and check the radio button next to "tvision.ear".
4. Click Target Application.
5. Check the server where you are deploying TransactionVision then click Continue.
6. Check one of the radio buttons in the "Source Accessibility" section.
7. Input "TransactionVision" in the Name: field of the Identify section.

8. Click Deploy. "TransactionVision" should show up under Deployments > Applications in the left panel.

## Modify startWebLogic and startManagedWebLogic Scripts

The following instructions are based on contents of the default **startWebLogic** and **startManagedWebLogic** scripts created by the WebLogic Configuration Wizard. If you have customized these scripts, these instructions can only be used as reference.

The instructions depend on the domain type.

### WebLogic 8.1 on Windows

#### Server Domain

The **startWebLogic.cmd** calls the utility **weblogic.Server** at the end. Copy **startWebLogic.cmd** to **tvStartWebLogic.cmd** and add the required additional environment setup to the copied **tvStartWebLogic.cmd** before the following line:

```
%JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.policy"
weblogic.Server
```

The **startManagedWebLogic.cmd** calls the utility **weblogic.Server** at the end. Copy **startManagedWebLogic.cmd** to **tvStartManagedWebLogic.cmd** and add the required additional environment setup to the copied **tvStartManagedWebLogic.cmd** before the following line:

```
"%JAVA_HOME%\bin\java" %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.management.username=%WLS_USER%
-Dweblogic.management.password=%WLS_PW%
-Dweblogic.management.server=%ADMIN_URL%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.policy"
weblogic.Server
```

#### Workshop Domain

The **startWebLogic.cmd** calls the utility **weblogic.Server** at the end. Copy **startWebLogic.cmd** to **tvStartWebLogic.cmd** and add the required additional environment setup to the copied **tvStartWebLogic.cmd** before the following section:

```
if "%WLS_REDIRECT_LOG%"==" " (
 echo Starting WLS with line:
 echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS%
%JAVA_OPTIONS% -Dweblogic.Name=%SERVER_NAME%
```

```
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%SERVER_CLASS%
 %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.polic
y" %SERVER_CLASS%
) else (
 echo Redirecting output from WLS window to
%WLS_REDIRECT_LOG%
 %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME% -
Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.polic
y" %SERVER_CLASS% 1>&2 >"%WLS_REDIRECT_LOG%"
)
```

The **startManagedWebLogic.cmd** calls **startWebLogic.cmd** at the end. Copy **startManagedWebLogic.cmd** to **tvStartManagedWebLogic.cmd** and edit the copied **tvStartManagedWebLogic.cmd** to change the following line

```
call startWebLogic.cmd nodebug verbose nopointbase
production noiterativedev notestconsole %3 %4 %5 %6 %7 %8
%9
```

to:

```
call tvStartWebLogic.cmd nodebug verbose nopointbase
production noiterativedev notestconsole %3 %4 %5 %6 %7 %8
%9
```

### Portal Domain

The **startWebLogic.cmd** calls the utility **weblogic.Server** at the end. Copy **startWebLogic.cmd** to **tvStartWebLogic.cmd** and add the required additional environment setup to the copied **tvStartWebLogic.cmd** before the following section:

```
if "%WLS_REDIRECT_LOG%"==" " (
 echo Starting WLS with line:
 echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS%
%JAVA_OPTIONS% -Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%SERVER_CLASS%
 %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.polic
y" %SERVER_CLASS%
) else (
 echo Redirecting output from WLS window to
%WLS_REDIRECT_LOG%
```

```
%JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.polic
y" %SERVER_CLASS% 1>&2 >"%WLS_REDIRECT_LOG%"
)
```

The **startManagedWebLogic.cmd** calls **startWebLogic.cmd** at the end.  
Copy **startManagedWebLogic.cmd** to **tvStartManagedWebLogic.cmd**  
and edit the copied **tvStartManagedWebLogic.cmd** to change the  
following line:

```
call startWebLogic.cmd nodebug nopointbase production
```

to:

```
call tvStartWebLogic.cmd nodebug nopointbase production
```

### Integration Domain

The **startWebLogic.cmd** calls the utility **weblogic.Server** at the end.  
Copy **startWebLogic.cmd** to **tvStartWebLogic.cmd** and add the  
required additional environment setup to the copied  
**tvStartWebLogic.cmd** before the following section:

```
if "%WLS_REDIRECT_LOG%"==" " (
 echo Starting WLS with line:
 echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS%
%JAVA_OPTIONS% -Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%SERVER_CLASS%
 %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.polic
y" %SERVER_CLASS%
) else (
 echo Redirecting output from WLS window to
%WLS_REDIRECT_LOG%
 %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.polic
y" %SERVER_CLASS% 1>&2 >"%WLS_REDIRECT_LOG%"
)
```

The **startManagedWebLogic.cmd** calls **startWebLogic.cmd** at the end.  
Copy **startManagedWebLogic.cmd** to **tvStartManagedWebLogic.cmd**  
and edit the copied **tvStartManagedWebLogic.cmd** to change the  
following line:

```
call startWebLogic.cmd nodebug verbose nopointbase
production noiterativedev notestconsole %3 %4 %5 %6 %7 %8
%9
```

to:

```
call tvStartWebLogic.cmd nodebug verbose nopointbase
production noiterativedev notestconsole %3 %4 %5 %6 %7 %8
%9
```

### Platform Domain

The `startWebLogic.cmd` calls the utility `weblogic.Server` at the end. Copy `startWebLogic.cmd` to `tvStartWebLogic.cmd` and add the required additional environment setup to the copied `tvStartWebLogic.cmd` before the following section:

```
if "%WLS_REDIRECT_LOG%"==" " (
 echo Starting WLS with line:
 echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS%
%JAVA_OPTIONS% -Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%SERVER_CLASS%
 %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.polic
y" %SERVER_CLASS%
) else (
 echo Redirecting output from WLS window to
%WLS_REDIRECT_LOG%
 %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS%
-Dweblogic.Name=%SERVER_NAME%
-Dweblogic.ProductionModeEnabled=%WLS_PRODUCTION_MODE%
-Djava.security.policy="%WL_HOME%\server\lib\weblogic.polic
y" %SERVER_CLASS% 1>&2 >"%WLS_REDIRECT_LOG%"
)
)
```

The `startManagedWebLogic.cmd` calls `startWebLogic.cmd` at the end. Copy `startManagedWebLogic.cmd` to `tvStartManagedWebLogic.cmd` and edit the copied `tvStartManagedWebLogic.cmd` to change the following line:

```
call startWebLogic.cmd nodebug verbose nopointbase
production noiterativedev notestconsole %3 %4 %5 %6 %7 %8
%9
```

to:

```
call tvStartWebLogic.cmd nodebug verbose nopointbase
production noiterativedev notestconsole %3 %4 %5 %6 %7 %8
%9
```

## WebLogic 8.1 on UNIX

### Server Domain

The `startWebLogic.sh` calls the utility `weblogic.Server` at the end. Copy `startWebLogic.sh` to `tvStartWebLogic.sh` and add the required additional environment setup in the copied `tvStartWebLogic.sh` before the following line:

```
${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.policy"
weblogic.Server
```

The `startManagedWebLogic.sh` calls the utility `weblogic.Server` at the end. Copy `startManagedWebLogic.sh` to `tvStartManagedWebLogic.sh` and add the required additional environment setup in the copied `tvStartManagedWebLogic.sh` before the following line:

```
"$JAVA_HOME/bin/java" ${JAVA_VM} ${MEM_ARGS} ${JAVA_OPTIONS} \
-Dweblogic.Name=${SERVER_NAME} \
-Dweblogic.management.username=${WLS_USER} \
-Dweblogic.management.password=${WLS_PW} \
-Dweblogic.management.server=${ADMIN_URL} \
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.policy" \
weblogic.Server
```

### Workshop Domain

The `startWebLogic.sh` calls the utility `weblogic.Server` at the end. Copy `startWebLogic.sh` to `tvStartWebLogic.sh` and add the required additional environment setup in the copied `tvStartWebLogic.sh` before the following section:

```
if ["${WLS_REDIRECT_LOG}" = ""] ; then
 echo "Starting WLS with line:"
 echo "${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy=${WL_HOME}/server/lib/weblogic.policy
${SERVER_CLASS}"
 ${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.policy"
${SERVER_CLASS}
else
 echo "Redirecting output from WLS window to
${WLS_REDIRECT_LOG}"
 ${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME} -
Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.policy"
${SERVER_CLASS} 1>&2 >"${WLS_REDIRECT_LOG}"
fi
```

The `startManagedWebLogic.sh` calls `startWebLogic.sh` at the end. Copy `startManagedWebLogic.sh` to `tvStartManagedWebLogic.sh` and edit the copied `tvStartManagedWebLogic.sh` to change the following line:

```
./startWebLogic.sh nodebug verbose nopointbase production
noiterativedev notestconsole $3 $4 $5 $6 $7 $8 $9
```

to:

```
./tvStartWebLogic.sh nodebug verbose nopointbase production
noiterativedev notestconsole $3 $4 $5 $6 $7 $8 $9
```

### Portal Domain

The `startWebLogic.sh` calls the utility `weblogic.Server` at the end. Copy `startWebLogic.sh` to `tvStartWebLogic.sh` and add the required additional environment setup in the copied `tvStartWebLogic.sh` before the following section:

```
if ["${WLS_REDIRECT_LOG}" = ""] ; then
 echo "Starting WLS with line:"
 echo "${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy=${WL_HOME}/server/lib/weblogic.polic
y ${SERVER_CLASS}"
 ${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME} -
Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.poli
cy" ${SERVER_CLASS}
else
 echo "Redirecting output from WLS window to
${WLS_REDIRECT_LOG}"
 ${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME} -
Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.poli
cy" ${SERVER_CLASS} 1>&2 >"${WLS_REDIRECT_LOG}"
fi
```

The `startManagedWebLogic.sh` calls `startWebLogic.sh` at the end. Copy `startManagedWebLogic.sh` to `tvStartManagedWebLogic.sh` and edit the copied `tvStartManagedWebLogic.sh` to change the following line:

```
./startWebLogic.sh nodebug nopointbase production
```

to:

```
./tvStartWebLogic.sh nodebug nopointbase production
```

### Integration Domain

The `startWebLogic.sh` calls the utility `weblogic.Server` at the end. Copy `startWebLogic.sh` to `tvStartWebLogic.sh` and add the required additional environment setup in the copied `tvStartWebLogic.sh` before the following section:

```
if ["${WLS_REDIRECT_LOG}" = ""] ; then
 echo "Starting WLS with line:"
 echo "${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy=${WL_HOME}/server/lib/weblogic.polic
y ${SERVER_CLASS}"
 ${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.poli
cy" ${SERVER_CLASS}
else
 echo "Redirecting output from WLS window to
${WLS_REDIRECT_LOG}"
 ${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.poli
cy" ${SERVER_CLASS} 1>&2 >"${WLS_REDIRECT_LOG}"
fi
```

The `startManagedWebLogic.sh` calls `startWebLogic.sh` at the end. Copy `startManagedWebLogic.sh` to `tvStartManagedWebLogic.sh` and edit the copied `tvStartManagedWebLogic.sh` to change the following line:

```
./startWebLogic.sh nodebug verbose nopointbase production
noiteratedev notestconsole $3 $4 $5 $6 $7 $8 $9
```

to:

```
./tvStartWebLogic.sh nodebug verbose nopointbase production
noiteratedev notestconsole $3 $4 $5 $6 $7 $8 $9
```

### **Platform Domain**

The `startWebLogic.sh` calls the utility `weblogic.Server` at the end. Copy `startWebLogic.sh` to `tvStartWebLogic.sh` and add the required additional environment setup in the copied `tvStartWebLogic.sh` before the following section:

```
if ["${WLS_REDIRECT_LOG}" = ""] ; then
 echo "Starting WLS with line:"
 echo "${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy=${WL_HOME}/server/lib/weblogic.polic
y ${SERVER_CLASS}"
```

```
 ${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
 ${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.poli
cy" ${SERVER_CLASS}
else
 echo "Redirecting output from WLS window to
${WLS_REDIRECT_LOG}"
 ${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
 ${JAVA_OPTIONS} -Dweblogic.Name=${SERVER_NAME}
-Dweblogic.ProductionModeEnabled=${WLS_PRODUCTION_MODE}
-Djava.security.policy="${WL_HOME}/server/lib/weblogic.poli
cy" ${SERVER_CLASS} 1>&2 >"${WLS_REDIRECT_LOG}"
fi
```

The **startManagedWebLogic.sh** calls **startWebLogic.sh** at the end.  
Copy **startManagedWebLogic.sh** to **tvStartManagedWebLogic.sh** and  
edit the copied **tvStartManagedWebLogic.sh** to change the following  
line:

```
./startWebLogic.sh nodebug verbose nopointbase production
noiterativedev notestconsole $3 $4 $5 $6 $7 $8 $9
```

to:

```
./tvStartWebLogic.sh nodebug verbose nopointbase production
noiterativedev notestconsole $3 $4 $5 $6 $7 $8 $9
```

---

## Appendix E

# LDAP Configuration Scenarios

There are two typical scenarios for a new TransactionVision installation. Either you have an existing LDAP server that you wish to integrate with, or you don't have an LDAP server and need to set one up. This section will give an overview of the most common steps considerations and setup steps for getting your LDAP server working with TransactionVision. These steps require some basic understanding of how LDAP works and focus on just giving an overview of what needs to be configured without getting into the specifics of a particular LDAP server.

See the *TransactionVision Administrator's Guide* for a description of managing LDAP users for TransactionVision.

## Quick Steps to Get LDAP Up and Running with TransactionVision

For a first time installation of LDAP, which is being used solely for Transactionvision, after installing the ldap server software, decide is where you want to store the TransactionVision LDAP objects. If you haven't created one yet, a root LDAP suffix must be defined in your ldap directory structure. This name is typically (might vary slightly depending on which LDAP server you use) something in the form of 'o=yourCompanyName,c=country'. Decide a path under your defined suffix to place your TransactionVision users, and their defined security attributes. In these examples, we will put our objects in a directory called 'TVision' off our main suffix - that is 'ou=TVision,o=yourCompanyName,c=country'.

Once you have defined this suffix, and settled on a directory to place the objects, you can proceed with running the **TVisionSetup** and **TVisionSetupInfo** scripts to initialize LDAP settings. **TVisionSetupInfo** will ask a few questions about where TransactionVision objects are expected. When it asks about the User

Directory location, give it the path to where you wish to define your users. For example: 'ou=Users,ou=TVision,o=yourCompanyName,c=country'. The Group directory location also allows for defining Transaction vision securities by the groups users belong to—this is an optional value, if it exists it will be searched for user groups, but if you do not plan on using this at least initially, you can leave it blank.

After defining and setting up the above, run **TVisionSetup** to initialize and populate LDAP with the default Transactionvision objects. The **TVisionSetup** steps will ask you for the username and password to login, and then the directory location under which it should create the 'ou=TVision' directory. In our example, we are just putting this off the main suffix so we enter 'o=yourCompanyName,c=country'. The next question asks if you want to create the default root suffix. This question is important because after you define the suffix in your LDAP server, you still need to create to root object itself. This step provides a shortcut for doing this—if your suffix has not yet been created, answer **Y** to this question and it will be created for you. **TVisionSetup** will then create all the LDAP objects.

If you use an LDAP browser to view the results, you will see it has created the default security groups (Administrator, Developer, Operator, User) in directory location

'ou=Security,ou=TVision,o=yourCompanyName,c=country'. It has also created the default Admin users in 'ou=Security,ou=TVision,o=yourCompanyName,c=country', which has a TVAuthoritygroup attribute that points to the Admin Security authorization in the ou=Security directory. At this point you should be able to login to TransactionVision as the Admin user. Any further users can be added to your 'ou=Users,ou=TVision,o=yourCompanyName,c=country' directory (you will need to use your LDAP administration tools for this) to enable them to also access the web pages.

See “7. Initialize LDAP entries for TransactionVision” for the **TVisionSetup** prompts

## Add or Integrate TransactionVision to an Existing Set of LDAP Users

In this scenario, it is assumed that that the suffix you wish to place TransactionVision objects under, the user directories all already exist, and you want to enable already existing user objects to access TransactionVision. If you want to create a separate directory location for TransactionVision from your existing user definitions, you could still follow steps similar to the previous section.

There are two tasks that need to be set to get TransactionVision to work with an existing LDAP directory. First you need to tell TransactionVision where your existing users and/or groups are located. Specify the appropriate directory location when prompted while running **TVisionSetupInfo** (or by modifying the corresponding attribute in your `ldap.properties` file). Then run **TVisionSetup** to initialize the TransactionVision LDAP entries. This script will do two things: it will add the TransactionVision LDAP schema definitions to your specified LDAP server, and it will create the `ou=TVision` directory object containing the default security permissions in the directory location you specify.

Second, you need to add the necessary TransactionVision attributes to the users and/or groups you wish to enable for TransactionVision. Enable any user you wish to have access to TransactionVision. In order for TransactionVision to recognize a user, it must have an attribute named `TVAuthoritygroup` which points to the TV security definition for this user. This attribute is created in the schema when **TVisionSetup** initialization is run. In order to give a user TransactionVision access, simply add this attribute to their user object in LDAP.



---

# Index

## A

application server  
    WebLogic, 91  
    WebSphere, 89  
application server properties, 29

## B

Bristol Support, contacting, 3

## C

circular logging, 63  
configuration files, 79  
    backup, 8  
    migration, 7, 13  
contacting Bristol Support, 3  
context factory, 80

## D

database schemas  
    migration, 7  
DB2INSTANCE environment variable, 20, 33,  
    42, 56

## E

event appender  
    UNIX, 65  
    Windows, 65

## I

installation  
    packages, 2  
    uninstalling on UNIX, 9  
    uninstalling on Windows, 15  
    UNIX, 5  
    UNIX files, 9  
    upgrading, 2  
    Windows, 11

## J

JAVA\_HOME environment variable, 11  
job configuration, 79  
JobManager.properties, 79

## L

LDAP  
    configuration scenarios, 101  
    using SSL, 82  
LDAP configuration, 79  
License.properties file, 83  
linear logging, 64  
log files  
    NT\_EVENT\_LOG, 65  
    SYSLOG, 65  
    ui.log, 63  
logging

- circular, 63
- linear, 64
- trace, 64

## M

- MigrateConfig, 73
- MigrateDB, 8, 74
- migrating configuration files and database schemas, 7, 13

## N

- NT\_EVENT\_LOG, 65

## S

- Setup.properties file, 83
- SSL, 82
- StatisticsCache.properties, 83
- support, contacting, 3
- SYSLOG, 65

## T

- Tivoli Enterprise Console (TEC)
  - integrating TransactionVision with, 67
  - server side setup, 67, 68
  - logging, 67, 69
- trace logging, 64
- TVISION\_HOME, 18
- TVISION\_HOME environment variable, 40
- TVisionSetup, 75
  - menus, 34, 56
  - overview, 31, 53
  - required information, 32, 54

- syntax, 33
- TVisionSetupInfo, 77
  - overview, 18, 40
  - required information, 18, 40
  - syntax, 23, 45
- tvision-wl-config.properties file, 84
- tvision-ws-config.properties file, 85

## U

- UI.properties, 85
- UNIX
  - installation, 5
  - installation files, 9
  - uninstalling, 9
- upgrading from previous releases, 2

## W

- web application
  - WebLogic configuration, 39
  - WebSphere configuration, 17
- WebLogic
  - application server configuration, 91
  - application server properties, 51
  - web application configuration, 39
- WebSphere
  - Application Server 5.1 Express, 38
  - application server configuration, 89
  - web application configuration, 17
- WebSphere Application Server
  - added files, 88
  - added JVM classpaths, 87
  - JVM system property settings, 87
- Windows
  - installation, 11
  - uninstalling, 15