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EnterpriseTrack

**Upgrade Guide
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About this Upgrade Guide

This guide describes the steps required to upgrade EnterpriseTrack from 16.1 or later to 17.x. If you are not on 16.1, you must first upgrade to 15.1 before upgrading to 17.x.

Preparing for the Upgrade

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Assessing the Technical Environment

Prior to upgrading:

Note: Oracle Consulting can provide technology assessments and architectural planning workshops to guide you through these processes.

- ▶ Review your configuration for the hardware and software used to support EnterpriseTrack.
- ▶ Use the Tested Configurations document to determine gaps in your infrastructure.

Important: You must run EnterpriseTrack only in HTTPS. The current version of EnterpriseTrack does not support HTTP.

Stopping Scheduled Tasks

Ensure that you have stopped all scheduled tasks (`DailyJob.pl` or `DailyJob.bat`).

Windows

Stop scheduled tasks using the Windows Task Scheduler.

Unix

Comment the line that refers to the corresponding EnterpriseTrack cron job.

Stopping the Current SiteWand Server

WebLogic (Windows and Linux)

To stop the WebLogic admin server on Windows or Linux complete the following steps:

- 1) From the **Start** menu, select **Oracle WebLogic, User Projects, Domain**, then **Stop Server**.
- 2) If prompted for a user name and password in the WebLogic console window, enter the WebLogic server administrator user name and password you specified when creating the domain.

Note: The WebLogic console closes automatically when shutdown.

Tomcat and Apache (Linux)

To stop the SiteWand server, complete the following steps:

- 1) Change the directory to: `ROOT_DIR/deploy/middleTier`. `ROOT_DIR` is the directory where SiteWand is installed.
- 2) As the user running SiteWand, execute the following command:
`perl launchMiddleTier.pl stop tomcat all`
- 3) As the user running Apache, execute the following command:
`perl launchMiddleTier.pl stop apache all`

Backing up Your Database

Before upgrading EnterpriseTrack, ensure that you have all the necessary backups. Follow your organization's procedures for creating a backup of the current database and the static files, originally distributed in `basehrefdir.zip`, if you have modified them.

Saving the Current SiteWand Installation

Save the current SiteWand installation by renaming the current SiteWand root directory. You can use this to refer to your old settings.

Windows

- 1) Change to the parent directory of the directory where SiteWand is installed. For example, if SiteWand is installed under `c:\etrack`, then enter the following commands:
`c:
cd\`
- 2) Rename the current SiteWand installation directory. For example,
`ren etrack etrack<release #>`

Linux

- 1) Change to the parent directory of the directory where SiteWand is installed. For example, if SiteWand is installed under `/home/euser/etrack`, then enter the following command:
`cd /home/euser`

- 2) Rename the current SiteWand installation. For example,
`mv etrack etrack<release #>`

Downloading EnterpriseTrack Media Pack

Download the EnterpriseTrack media pack from Oracle Software Delivery Cloud. Also, download the latest service packs available for the EnterpriseTrack.

Extracting the SiteWand File

Windows

Extract the zip file to a directory, typically called `c:\etrack` which may need to be created.

Note: The directory into which the zip file contents are extracted to, is referred to as the **IETRACK_Root** directory throughout this guide.

Linux

Extract the SiteWand file as follows:

- 1) Change directory to `IETRACK_ROOT`
Typically `etrack` is in the home directory of the user that will be running the software.
- 2) Untar the `IETRACK_ROOT/Sitewand-Linux-x86_64.tar.gz` file.
- 3) Name the directory that gets created as **sitewand**, if it does not already have that name.
This directory is now referred to as **ROOT_DIR**.
For example, if `sitewand.tar.gz` is untared to `/home/webserv1/etrack/`, then the `ROOT_DIR` is `/home/webserv1/etrack/sitewand`

Uninstalling SiteWand

For WebLogic on Windows or Linux

To uninstall SiteWand, complete the following steps:

- 1) Follow the WebLogic documentation to undeploy the **SiteWand.war** application.
- 2) Delete the current SiteWand application.
- 3) Restart WebLogic

For Tomcat and Apache on Linux

To uninstall SiteWand, complete the following steps:

- 1) Follow the Tomcat and Apache documentations to shut down Tomcat and Apache.
- 2) Delete the current SiteWand application.

Upgrading SiteWand Using WebLogic for Windows or Linux

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Configuring SiteWand for Windows

If there is an existing installation, associated servers will interfere with resources being configured (such as network port numbers). Ensure that you stop the servers by following the associated documentation.

Modifying the `site.properties` File

Note: You can use the existing `site.properties` file. If needed, make changes to this file.

Modify the `site.properties` file as follows:

- 1) Login to the server as a user with Windows administrator privileges.
- 2) In the `IETRACK_ROOT` directory, locate the `site.properties` file.
- 3) Use the appropriate example in the properties file to modify the configuration property specific to the server installation. Use your `site.properties` file from the old installation as a reference.

Configuring SiteWand

- 1) Change directory to `IETRACK_ROOT`.
- 2) Run the following command:
`configMiddleTier application`
- 3) Enter database user and password when prompted.

Configuring SiteWand for Linux

If there is an existing installation, associated servers will interfere with resources being configured (such as network port numbers). Ensure that you stop the servers by following the associated documentation.

Note: You can use the existing `site.properties` file. If needed, make changes to this file.

You can configure SiteWand on Linux by modifying the `site.properties` file as follows:

- 1) In the `IETRACK_ROOT` directory, locate the `site.properties` file.
- 2) Use the appropriate example in the properties file to modify the configuration property specific to the server installation. Use your `site.properties` file from the old installation as a reference.
- 3) Run the following command:
`perl configMiddleTier.pl application`
- 4) Enter the database user name and password when prompted.

Starting WebLogic Admin Server

Before starting the Weblogic admin server, edit the file `bin/setDomainEnv.sh` (for Linux), `bin/DomainEnv.bat` (for Windows) to set the following options:

- ▶ Set the Java heap space for the Weblogic server to: `-Xms256m -Xmx6000m`

Important!: Oracle recommends setting the Java heap space for the WebLogic server to:

`-Xms256m -Xmx6000m`

SiteWand will not install if the Java heap space is not set per the recommendation.

If the WebLogic precompile option is enabled, the WebLogic console displays the following message after precompiling: “*Server started in RUNNING mode*”. For details on how to enable precompilation, see WebLogic Server documentation.

- ▶ Add the following line to enable headless mode:

For Linux systems:

```
JAVA_OPTIONS="${JAVA_OPTIONS} -Djava.awt.headless=true"
Export JAVA_OPTIONS
```

For Microsoft Windows systems:

```
set JAVA_OPTIONS=%JAVA_OPTIONS% -Djava.awt.headless=true
```

- ▶ If you are using OAM to provide SAML authentication, add the following line. The line below also enables the headless mode.

For Linux systems:

```
JAVA_OPTIONS="${JAVA_OPTIONS} -Dweblogic.http.enableRemoteUserHeader=true"
Export JAVA_OPTIONS
```

For Microsoft Windows systems:

```
Set JAVA_OPTIONS=%JAVA_OPTIONS%
-Dweblogic.http.enableRemoteUserHeader=true
```

Starting WebLogic Admin Server

Start the admin server to deploy the EnterpriseTrack application in WebLogic as follows:

- 1) From the **Start** menu, select **Oracle WebLogic**.
- 2) Select the menu option, **User Projects, Domain**, then **Start Server**.
- 3) In the WebLogic console window, enter the Weblogic server administrator user name and password that was specified when creating the WebLogic domain.

Upgrading SiteWand

To install SiteWand, complete the following steps:

- 1) Start the WebLogic Admin Server Console for the domain.
- 2) Select **Lock and Edit** to change the domain.
- 3) Select **Deployments**.
- 4) Select the previously deployed **SiteWand** application.
- 5) Click **Upgrade**.
- 6) Click **Change Path** and point to the source path where the newly configured SiteWand generated in the previous step is located.
- 7) Click **Activate Changes**.
- 8) Select the **SiteWand** application under the **Deployments** section and click **Start > Servicing all requests**.

Note: The Admin console will shut down and not be accessible until launched again.

Setting Mobile Authentication

For basic and digest authentication:

1. Search for `enforce-valid` in the file `sitewanddomain/config/config.xml`.
2. Add the following at the end of the `<security-configuration>` block:
`<enforce-valid-basic-auth-credentials>false</enforce-valid-basic-auth-credentials>`

Starting SiteWand

To start SiteWand, complete the following steps:

- 1) Ensure the database server and pluggable database (if configured) are running.
- 2) Set the `manage_accounts` password. See topic *Accessing the SiteWand Login Page* for more information.
- 3) Change the directory to `weblogic_home/user_projects/domains/your_domain` directory.
- 4) Run the `startWebLogic` script.
 - ▶ `startWeblogic.cmd` on Windows machine

- ▶ `startWeblogic.sh` on Unix machine
- 5) If prompted, enter the administrator user name and password you specified when creating the domain in the WebLogic console window.

Upgrading SiteWand Using Tomcat and Apache for Linux

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Configuring SiteWand for Linux

If there is an existing installation, associated servers will interfere with resources being configured (such as network port numbers). Ensure that you stop the servers by following the associated documentation.

Note: You can use the existing `site.properties` file. If needed, make changes to this file.

You can configure SiteWand on Linux by modifying the `site.properties` file as follows:

- 1) In the `IETRACK_ROOT` directory, locate the `site.properties` file.
- 2) Use the appropriate example in the properties file to modify the configuration property specific to the server installation. Use your `site.properties` file from the old installation as a reference.
- 3) Run the following command:
`perl configMiddleTier.pl application`
- 4) Enter the database user name and password when prompted.

Registering SiteWand Services

Register SiteWand services with the operating system to enable starting SiteWand automatically.

- ▶ Setup appropriate run control (RC) files to enable Apache and Tomcat to automatically start on reboot.
- ▶ You can also edit the existing RC files before re-using them.

Starting SiteWand Manually

To manually start the SiteWand server after an upgrade:

- 1) Change the directory to: `ROOT_DIR/deploy/middleTier`
`Root_DIR` is the directory SiteWand was installed under.
- 2) Execute the following command:
`perl -w launchMiddleTier.pl start apache all`
Start Apache as root if you are running the server on a port less than 1024.
- 3) Execute the following command:
`perl -w launchMiddleTier.pl start tomcat all`
Start Tomcat as a regular user.
- 4) Set the `manage_accounts` password. See topic *Accessing the SiteWand Login Page* for more information.

The server startup can take several minutes to complete

Upgrading EnterpriseTrack

Accessing EnterpriseTrack

The following URL displays the EnterpriseTrack Login page:

```
https://<hostname>[:<port>]/SiteWand/Submission/<etrack account name>/login
```

To login to EnterpriseTrack:

- 1) In the Login ID field, enter **sys_admin**.
- 2) In the Password field, enter your password.
- 3) Click the **Login** button.

Upgrading EnterpriseTrack

To create a backup:

- 1) From the Top Navigation bar, select **Go To > Administration**.
- 2) From the **Change Mode** drop-down menu, select **Upgrade**.
- 3) Click **Create Backup**.

To upgrade EnterpriseTrack:

- 1) From the Top Navigation bar, select **Go To > Administration**.
- 2) From the **Change Mode** drop-down menu, select **Upgrade**.
- 3) Click the **Install Update** button.
- 4) Click the **Browse** button to select the new release upgrade pack, it is named `upgrade_NNN_to_NNN`.
`NNN` stands for the old followed release level by the new release level.
- 5) Click **Update**.

- 6) After the upgrade process is complete, from the **Change Mode** drop-down menu, select **Reconfigure**.

Restoring your EnterpriseTrack Account

To restore your EnterpriseTrack account if your upgrade fails:

- 1) Go to `https://[sitewand_server]/SiteWand/Submission/[account-name]_upgrade_backup/login`.
- 2) Log in as **sys_admin**.
- 3) From the **Update** tab click **Recover**.

Validating the Account

To validate the account after an upgrade:

- 1) With the system in **Reconfigure** mode, click the **Validate Configuration** button.
- 2) From the **Change Mode** drop-down menu, select **Production**.

Note: You must fix all validation errors in the Reconfigure mode before moving the system to Production.

Enabling User-Interface Components in EnterpriseTrack

All the images and stylesheets used by EnterpriseTrack are located using a base URL. The upgrade script updates the base URL. If the base URL of your base account (account before upgrade) is pointing to

`https://primavera-et-i.oracleindustry.com/systems/sixsigma/v151/` then the base URL of the migrated account will be:

`https://primavera-et-i.oracleindustry.com/systems/sixsigma/v17/`.

You can choose to host the base URL internally or externally. During migration it is set to **External**.

To make changes to this setting:

- 1) Copy to the following folders that are provided in the distribution.
 - ▶ For WebLogic, unzip the `basehref.zip` to the `DocumentRoot` directory defined in `httpd.conf` for OHS webserver
 - ▶ For Tomcat and Apache, copy the `bhref` folder to `INSTALL_DIR/apache-X/htdocs/SiteWand/public`

For more details on `INSTALL_DIR`, refer to the `linux.properties` file.
- 2) Configure the Base URL Link as follows:
 1. From the **Change Mode** drop-down menu, select **Reconfigure**.
 2. Click on the **Deployment Options** tab.
 3. Select the **Base URL** link.

4. Select the location of your static content: **Internal** or **External**.
5. If you selected **External**, save the current value of the Base URL as a backup.
6. Enter the new value for the Base URL.
7. Click **Validate** to test access to an icon.
8. Click the **Update** button to set the new Base URL link.

Adding your Company Logo

Use the Company Logos page to upload your company logo. You can add a logo to the EnterpriseTrack header and the login page.

To upload your company logo:

- 1) Select the **General Settings** tab.
- 2) Click the **Company Logos** link.
- 3) Click **Browse** to find the image. The preferred image formats are JPEG, GIF, PNG or BMP. Update the dimension of the image.
- 4) Click **Update**.

Post-Upgrade Processes

After you upgrade:

- ▶ Apply current service packs available for the release.
- ▶ Give the environment to the appropriate project teams for testing.
- ▶ Delete the backup. An email is sent to the sys_admin user to remove the backup. To remove the backup: change to the **Upgrade** mode and click the **Remove Backup** button. After removing the backup, change the mode to **Reconfigure**, and then to **Production**.

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Oracle Instantis EnterpriseTrack Upgrade Guide

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