



TIBCO® MDM

License Activation and Configuration

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Activation

TIBCO MDM requires activation by using a license to start. Generate licenses on the TIBCO Software Downloads site at <https://www.tibco.com/downloads>. For complete details on activating TIBCO products, see the TIBCO Activation Service documentation at <https://docs.tibco.com/products/tibco-activation-service>.

! **Important:** TIBCO MDM will shut down when you reach the end date of your entitlement to the product, and will not restart until you replace your license file with one that contains a new entitlement end date. It is recommended that you do so well in advance of your entitlement end date to avoid business disruption.

There are two options for activating this product:

- In-Product Activation (local activation): Copy your license file to the \$MQ_COMMON_DIR/license/ directory.

! **Important:** In-product activation requires TIBCO® MDM 9.3.2 Hotfix 1. You have to install this Hotfix as a post installation task.

- TIBCO Activation Service (remote activation): Install TIBCO Activation Service software and upload your license file to the running instance before installing the TIBCO MDM. For installation instructions, and to determine the URL of your TIBCO Activation Service instance, see the TIBCO Activation Service documentation at <https://docs.tibco.com/products/tibco-activation-service>.

For details on configuring TIBCO MDM for activation, see [Activation Configuration](#).

Installation

The TAR file is provided with the installer.

Prerequisites

Refer Product Activation section from *TIBCO® MDM Release Notes* to download, install and configure your TIBCO® Activation Service - License Server.

Refer <https://docs.tibco.com/products/tibco-activation-service> for documentation.

Verify that the `MQ_HOME`, `MQ_COMMON_DIR`, `NODE_ID`, and `JAVA_HOME` environment variables are set. For information, see environment variables.

Download the TIBCO MDM installer from <https://edelivery.tibco.com>. The application is available as a TAR file.

You can install the TIBCO MDM 9.3.2 in one of the following ways:

- If you have installed TIBCO MDM 9.3.1 HF-003, perform the steps listed in [Installing from TIBCO MDM 9.3.1 HF-003](#).
- If you have installed TIBCO MDM 9.3.1 GA, perform the steps listed in [Installing from TIBCO MDM 9.3.1 GA](#).

Installing from TIBCO MDM 9.3.1 HF-003

If you have installed TIBCO MDM 9.3.1 HF-003, perform the following steps to install TIBCO MDM 9.3.2.

1. Uninstall or undeploy the `ECM.ear` file from the Application Server.
2. Create the `$MQ_HOME/customEAR` directory.
3. Copy the TAR file to the `$MQ_HOME/customEAR` directory.
4. Navigate to the `customEAR` directory:

For UNIX:

```
cd $MQ_HOME/customEAR
```

For Windows:

```
cd %MQ_HOME%\customEAR
```

5. Extract the contents of the TAR file:

For UNIX: `tar -xvf filename.tar`

For Windows: Unzip the TAR file

6. Run the following command from the `$MQ_HOME/customEAR` directory:

For UNIX:

```
./installSP.sh
```

For Windows:

```
installSP.bat
```

7. For Windows, when prompted with ready to continue, enter Y.

This command creates an updated `ECM.ear` and `config.war` file in the `$MQ_HOME/customEAR` directory.

8. (Optional) To change the online Help URL (which is displayed when you click the Help icon in the TIBCO MDM application), change the value of Help URL property in the Configurator from <https://docs.tibco.com/go/mdm/9.3.1/> to <https://docs.tibco.com/go/mdm/9.3.2/>.
9. Update the below property in `ConfigValues.xml` at `$MQ_HOME/config/ConfigValues.xml`.

```
<ConfValue description="Default is Cloud Software Group, Inc. This value will be displayed in the title bar of the Application." name="Application Provider" propName="com.tibco.cim.application.providername" sinceVersion="7.0" isHotDeployable="false" isHidden="false" visibility="All">  
  <ConfString default="Cloud Software Group, Inc." value="Cloud Software Group, Inc."/>  
</ConfValue>
```

10. Deploy the updated `ECM.ear` to the Application Server.

11. For Configurator changes, follow the following steps:
 - a. The config.war file is generated under the customEAR directory.
 - b. Copy the config.war file to the \$MQ_HOME/configurator/server/configurator/webapps path.
 - c. Restart Configurator.
12. Perform the steps listed in [License Configuration for TIBCO MDM](#).

Installing from TIBCO MDM 9.3.1 GA

If you have installed TIBCO MDM 9.3.1 GA, perform the following steps to install TIBCO MDM 9.3.2.

1. Perform the steps listed in [Installing from TIBCO MDM 9.3.1 HF-003](#).
2. For POSTGRES db only and if migrating from MDM 9.1.2 (if these scripts are already executed then skip this step), create tablespaces:
 - a. Go to the \$MQ_HOME/db/postgreSQL/migration/tablespaceCreation folder.
 - b. Run the install.sh/bat script by passing the required values.
After successful execution of the script, three new tablespaces are created.
 - c. Proceed with the MDM 9.3.1 migration process. For more information, refer to *TIBCO® MDM Installation and Configuration*.
3. Run the following migration scripts for post 9.3.1 GA (if these scripts are already executed then skip this step).

For PostgreSQL -

```
$MQ_HOME/db/postgreSQL/migration/Migrate93_931/alterForFunc2ScreenMap.sql  
$MQ_HOME/db/postgreSQL/migration/Migrate93_931/alterForDashboardCursor.sql
```

For Oracle -

```
$MQ_HOME/db/oracle/migration/Migrate93_931/alterForFunc2ScreenMap.sql  
$MQ_HOME/db/oracle/migration/Migrate93_931/alterForDashboardCursor.sql
```

For SQL Server -

```
$MQ_HOME/db/sqlserver/migration/Migrate93_931/alterForFunc2ScreenMap.sql
$MQ_HOME/db/sqlserver/migration/Migrate93_931/alterForDashboard.sql
```

4. Perform the steps listed in [Activation Configuration](#).

Activation Configuration

Configure TIBCO MDM for activation by following these instructions.

In-Product Activation

1. Copy your license file to the \$MQ_COMMON_DIR/license directory. Ensure that no value is set for the property com.tibco.mdm.license.source in \$MQ_CONFIG_FILE.
2. Set the path for OS or platform specific Activation libraries.

The runtime libraries required for Activation need to be provided to MDM Server through the appropriate environment variable below.

For Windows:

```
SET CLASSPATH=%MQ_HOME%\lib\external\license\WINDOWS;%CLASSPATH% SET
PATH=%MQ_HOME%\lib\external\license\WINDOWS;%PATH%
```

For UNIX:

```
export LD_LIBRARY_PATH=$MQ_HOME/lib/external/license/LINUX:$LD_LIBRARY_
PATH
```


The LD_LIBRARY_PATH environment variable must be available to the MDM Server at runtime. Make appropriate changes to the application server startup scripts.

3. Restart the MDM Application Server.

TIBCO Activation Service

1. Configure the URL for your TIBCO Activation Service instance within the Miscellaneous > Cluster section in the configuration property in \$MQ_HOME/config/ConfigValues.xml or \$MQ_CONFIG_FILE, for example:

```
<ConfValuename="TIBCO Activation Service URL"description="The URL for
TIBCOActivation Service instance for license activationand validation" isHidden="false"
isHotDeployable="false" proptype="com.tibco.mdm.license.source"sinceVersion="9.3.2"
visibility="All"> <ConfString default="" value="TIBCO_ACTIVATION_SERVER_URL"/>
</ConfValue>
```

 **Note:** This is a global property for all nodes of TIBCO MDM.

2. Set the path for OS or platform-specific Activation libraries. The runtime libraries required for Activation need to be provided to MDM Server through the appropriate environment variable.

For Windows:

```
SET CLASSPATH=%MQ_HOME%\lib\external\license\WINDOWS;%CLASSPATH% SET
PATH=%MQ_HOME%\lib\external\license\WINDOWS;%PATH%
```

For UNIX:

```
export LD_LIBRARY_PATH=$MQ_HOME/lib/external/license/LINUX:$LD_LIBRARY_
PATH
```

The environment variable LD_LIBRARY_PATH must be available to the MDM Server at runtime. Make appropriate changes to the application server startup scripts.

3. For WebSphere, add the signer to the local trust store:
 - a. Log on to the administrative console.
 - b. Expand **Security** and click **SSL certificate and key management**.
 - c. Under the **Configuration** settings, click **Manage endpoint security configurations**.
 - d. Select the appropriate outbound configuration to get to the (cell):<hostname>Node01Cell:(node):<hostname>Node01 management scope.
 - e. Under **Related Items**, click **Key stores and certificates** and click the **NodeDefaultTrustStore** key store.
 - f. Under **Additional Properties**, click **Signer certificates and Retrieve From**

Port.

- g. In the **Host** and **Port** fields, enter hostname and port of the system where you have installed the TIBCO Activation Service instance.
 - h. In the **Alias** field, enter `<hostname>_cert`.
 - i. Click **Retrieve Signer Information**.
Verify that the certificate information is correct for a certificate that you can trust.
 - j. Click **Apply and Save**.
4. Restart the MDM Application Server.

Troubleshooting

1. Monitor MDM Product Logs, Application Server Logs, and About popup on the MDM UI to view the License status and take appropriate action to avoid the service disruption.
2. If there is a license validation failure in the following scenarios, remove contents from the `$MQ_HOME/config/.license` directory and restart the application server.
 - a. Switching license modes between remote and local.
 - b. Reinstall or movement of TIBCO Activation Service Instance.
 - c. Renewal of license (on TIBCO Activation Server or local license file).

Uninstallation

Uninstall the current `<instance name>.ear` file from the Application Server.

Containerization

To apply the hotfix on the TIBCO® MDM 9.3.2 Docker container, you must build and run the following Docker images using the bundled Docker ZIP file (TIB_mdm_9.3.2_container.zip).

Extract the contents of the TIB_mdm_9.3.2_container.zip file to a separate directory. In the directory, locate the ready-to-use Dockerfile and other scripts required to build the images.

Dockerfile and Readme Location

The steps to build Docker containers are documented in the "ReadMe.txt" file available in each of the component directories.

- For TIBCO MDM: TIB_mdm_9.3.2_container/docker/build/MdmServicePack
- For TIBCO MDM Configurator: TIB_mdm_9.3.2_container/docker/build/MdmConfigServicePack
- For TIBCO MDM ALL IN ONE: TIB_mdm_9.3.2_container/docker/build/MdmAllInOne

Additionally, you need to perform step 3 from the [Installing from TIBCO MDM 9.3.1 GA](#) manually on the database used in the container platform in order to complete the migration.

For information on TIBCO MDM Containerization, see "TIBCO® MDM Cloud Deployment" guide on the TIBCO Product Documentation (<https://docs.tibco.com/>) site.

Product Activation on Containers

- For Product Activation on Containers, you need to provide `TIBCO_ACTIVATION_SERVER_URL` as an environment variable `LICENSE_URL`.
- For MDM ALL IN ONE, environment variable `LICENSE_URL` can be provided in its "docker run" command as mentioned in the ReadMe.txt file. For local or in-product activation, refer the respective Readme.txt.
 - MdmAllInOne/ReadMe.txt
 - MdmHF/ReadMe.txt

- For k8s cluster deployment, configure the environment variable **LICENSE_URL** in the respective **ConfigMaps** for individual and helm charts deployment options. For renewal of the license, copy the new license file to the `$MQ_COMMON_DIR/license` directory at the container deployment location (either local cluster or cloud).
- In-Product (Local) License Activation: Refer respective `README.txt` in `MdmHF` and `MdmAllInOne` container build directories for instructions related to In-Product Activation using a license file.

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join [TIBCO Community](#).

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO® MDM is available on the [TIBCO® MDM Product Documentation](#) page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable

customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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