Oracle Financial Services Funds Transfer Pricing

Installation Guide



Release 8.1.2.11.0
G26088-07
October 2026



Oracle Financial Services Funds Transfer Pricing Installation Guide, Release 8.1.2.11.0

G26088-07

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About This Guide

This section provides supporting information for the Oracle Financial Services Funds Transfer Pricing (OFS FTP) Application Installation Guide.

Audience

The OFS FTP Installation Guide is intended for Administrators, Business Users, Strategists, Data Analysts, and Implementation Consultants who are responsible for installing and maintaining the application components. This document assumes that you have experience installing the Enterprise Components and basic knowledge of the following:

- OFS Funds Transfer Pricing application components
- OFSAA architecture
- UNIX commands
- Database concepts
- Web Server or Web Application Server

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Oracle customers that have purchased support have access to electronic support through My Oracle Support. Visit Oracle Support information or support for hearing-impaired customers.

Related Resources

- OFS Funds Transfer Pricing
- OFS Analytical Applications Infrastructure
- OFSAA Licensing Information User Manual
- OFS Analytical Applications Technology Matrix

Conventions

Convention	Meaning
boldface	Graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Commands, URLs, code examples, screen text, or text that you enter.

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OFS Funds Transfer Pricing Pack (OFS FTP Pack) Release v8.1.2.11.0

OFS FTP Pack Installation Guide Maintenance Level (ML) release v8.1.2.11.0 includes all the bug fixes and minor enhancements since the previous Minor release v8.1.2.0.0.

This ML release of OFS FTP Pack can be installed on a setup with OFS FTP Pack Release v8.1.2.0.0.

Pre-installation Requirements

Ensure that the following prerequisites are installed and available:

- The minimum patch level installed must be OFS FTP Release 8.1.2.0.0.

See the *OFS Analytical Applications Technology Matrix* for hardware and software requirements.

> **Note**
>
> If you are installing release 8.1.2.11.0 with Java 17, update `JAVA_HOME`, `JAVA_BIN`, and `LD_LIBRARY_PATH` to point to the corresponding Java 17 paths.

> **Note**
>
> Take a backup of the `SETUP_MASTER` table in the Atomic schema if there are customizations. This table will be overwritten with default values after installation.

> **Note**
>
> For details on Java 11, see the *Update the OFSAA 8.1.1.x Java 8 Instance to Java 11* section in the *OFS Analytical Applications Infrastructure Administration and Configuration Guide*, available at the OHC Documentation Library.

- The unlimited cryptographic policy for Java is enabled during the installation of OFS FTP 8.1.2.0.0. For more information, see *Enabling Unlimited Cryptographic Policy* in the *OFS Analytical Applications Infrastructure Administration and Configuration Guide*, available at the OHC Documentation Library.
- Install Python 3.14.7 and the third-party packages described in Chapter 3, *Python Configuration*.

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Oracle Linux 9 Server Support

OFS AAI 8.1.2.5.x and later MLs support Oracle Linux 9 Server in addition to the continued support on Oracle Linux 8 and Oracle Linux 7. See the OFS Analytical Applications Technology Matrix for the supported platform and infrastructure requirements for this release.

> **Note**
>
> The *Oracle Linux 9 Server Configuration* section of the infrastructure guide applies to upgrade installations of OFS AAI. The *New Installation of OFS AAI 8.1.2.0.0 with Oracle Linux 9 Server* section applies to new installations.

New Installation of OFS AAI 8.1.2.0.0 with Oracle Linux 9 Server: Follow My Oracle Support Doc ID 3067623.1 to install the OFS AAI 8.1.2.0.0 base installer. Then apply the OFS FTP 8.1.2.11.0 ML release patch.

Installing this Release

> **Note**
>
> You must install all the Enterprise Performance Management application packs in a single Infodom.

To install this release patch, follow these steps:

1. Log in to My Oracle Support and locate the OFS FTP 8.1.2.11.0 ML installer patch under **Patches & Updates**. **Installer patch ID: 39658084.**

2. Download the OFS Funds Transfer Pricing 8.1.2.11.0 ML release archive and copy it to your OFSAA server in Binary mode.

> **Note**
>
> Different archive files are provided for different operating systems, such as Solaris and RHEL or OEL. Use the archive supported for your deployment.

3. If you are customizing the data model, download the OFS FTP 8.1.2.11.0 erwin data model patch from My Oracle Support. **Erwin patch ID: pending release assignment.**

Update the `Silent.Props` file with the customized data model file name and its location on the server. If you are not customizing the data model, you do not need to download the erwin patch.

4. Stop all the OFS AAI services. See *Stop the OFSAA Infrastructure services* in the *OFS AAI Installation and Configuration Guide*, available at the OHC Documentation Library.

5. Log in to the OFSAA server as a non-root user and navigate to the `$FIC_HOME` directory.

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6. Assign WRITE permission to files or directories such as `commonscripts`, `EXEWebService`, `ficapp`, `ficweb`, and `ficdb`:

```
chmod -R 775 *
```

7. If the Unzip utility is available, continue to step 8. Otherwise, download the OS-specific utility and copy it in Binary mode to a directory in your `PATH`, typically `$HOME` or the directory containing the 8.1.2.11.0 ML archive.

Uncompress the installer and assign EXECUTE permission:

```
uncompress unzip_<os>.Z
chmod 751 unzip_<os>
```

For example: `chmod 751 unzip_linux`.

> **Note**
>
> If the message `uncompress: not found [No such file or directory]` is displayed, contact your UNIX administrator.

8. Extract the contents of the 8.1.2.11.0 ML archive using one of the following commands:

```
unzip_<os> -a <release_archive.zip>
unzip -a <release_archive.zip>
```

Use the actual downloaded archive file name. The `-a` option is mandatory.

9. Navigate to `/OFS_FTP_PACK/appsLibConfig/conf` and set `UPLOAD_MODEL` to `1` in `params.conf`.

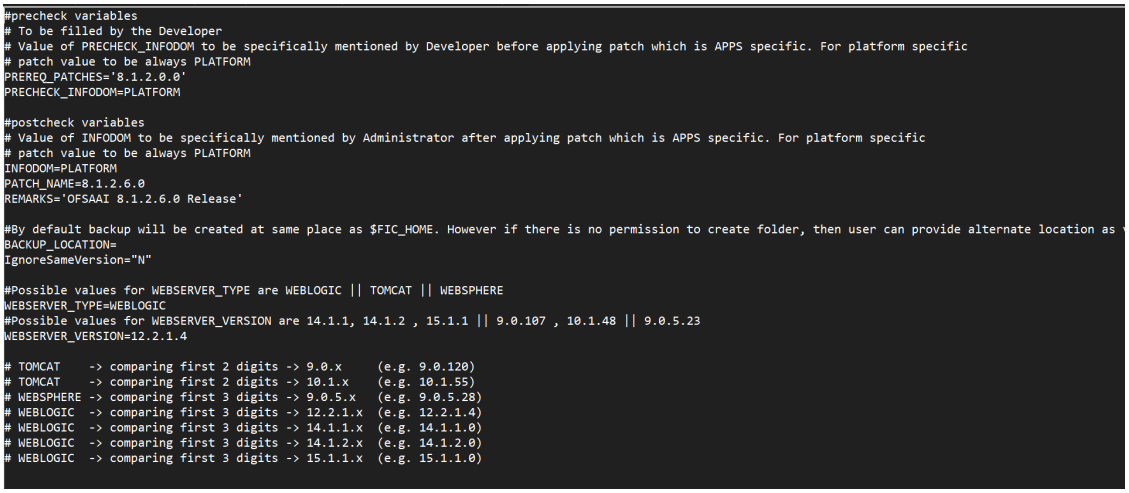
> **Note**
>
> **Model Upload Process**
>
> Input values are **1** to trigger model upload or **0** to skip model upload.
>
> If model upload is enabled, select **0** for the released data model or **1** for a customized data model. For a customized data model, provide the data model name and its path.

10. Update the parameters in the `params.conf` file in the `OFS_FTP_PACK` root directory.

Set `WEBSERVER_TYPE` and `WEBSERVER_VERSION` for your deployed web application server. Follow the comments in the FTP installer file and use the supported web server_type and web server_version for your environment.

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Figure 1-1 FTP Pack Directory - params.conf



```
#precheck variables
# To be filled by the Developer
# Value of PRECHECK_INFODOM to be specifically mentioned by Developer before applying patch which is APPS specific. For platform specific
# patch value to be always PLATFORM
PREREQ_PATCHES='8.1.2.0.0'
PRECHECK_INFODOM=PLATFORM

#postcheck variables
# Value of INFODOM to be specifically mentioned by Administrator after applying patch which is APPS specific. For platform specific
# patch value to be always PLATFORM
INFODOM=PLATFORM
PATCH_NAME=8.1.2.6.0
REMARKS='OFSAAI 8.1.2.6.0 Release'

#By default backup will be created at same place as $FIC_HOME. However if there is no permission to create folder, then user can provide alternate location as
BACKUP_LOCATION=
IgnoreSameVersion="N"

#Possible values for WEBSERVER_TYPE are WEBLOGIC || TOMCAT || WEBSPHERE
WEBSERVER_TYPE=WEBLOGIC
#Possible values for WEBSERVER_VERSION are 14.1.1, 14.1.2 , 15.1.1 || 9.0.107 , 10.1.48 || 9.0.5.23
WEBSERVER_VERSION=12.2.1.4

# TOMCAT    -> comparing first 2 digits -> 9.0.x     (e.g. 9.0.120)
# TOMCAT    -> comparing first 2 digits -> 10.1.x    (e.g. 10.1.55)
# WEBSPHERE -> comparing first 3 digits -> 9.0.5.x   (e.g. 9.0.5.28)
# WEBLOGIC  -> comparing first 3 digits -> 12.2.1.x  (e.g. 12.2.1.4)
# WEBLOGIC  -> comparing first 3 digits -> 14.1.1.x  (e.g. 14.1.1.0)
# WEBLOGIC  -> comparing first 3 digits -> 14.1.2.x  (e.g. 14.1.2.0)
# WEBLOGIC  -> comparing first 3 digits -> 15.1.1.x  (e.g. 15.1.1.0)
```

> **Note**
>
> When upgrading to OFS FTP 8.1.2.11.0, install Python 3.14.7 and the third-party packages specified in Chapter 3, *Python Configuration*. OFS FTP 8.1.2.11.0 does not support Python 3.9.4; the required Python version is 3.14.7.

11. Navigate to the `OFS_FTP_PACK` directory and assign EXECUTE permission to the ML patch installer script:

```
chmod 755 OFSAAIUpdate.sh
```

12. Complete the patch upgrade:

```
./OFSAAIUpdate.sh
```

13. Verify that the ML patch was applied successfully by checking `OFSAAIUpdate.log` in `OFS_FTP_PACK/logs` and the installation logs in `OFS_FTP_PACK/OFS_FTP/logs`. You can ignore error codes ORA-00001, ORA-02292, ORA-00955, and ORA-02260. For any other errors, contact My Oracle Support.

> **Note**
>
> For an upgrade on Hive Infodom, you may encounter the exception `PL/SQL: ORA-00942: table or view does not exist`. You can ignore this error.

14. After successful installation of the ML, execute the `.profile` file:

```
. $HOME/.profile
```

Clear the application cache using the path for your configured web application server:

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Tomcat

```
<Tomcat installation folder>/work/Catalina/localhost/
<Application name>/org/apache/jsp
```

WebLogic

```
<WebLogic installation location>/domains/<Domain name>/
servers/<Server name>/tmp/_WL_user/<Application name>
```

WebSphere

```
<WebSphere installation directory>/AppServer/profiles/
<Profile name>/temp/<Node name>/server1/<Application name>/
<.war file name>
```

15. Delete the existing EAR or WAR file in the `$FIC_HOME/ficweb` directory.

16. Install the updated OFSAAI Runner package if Oracle R Enterprise (ORE) is installed for OFS Enterprise Modeling (EMF) and the application is licensed and enabled. This configuration does not apply to Tomcat. See Chapter 5, *Additional Configurations*.

17. Generate the application EAR or WAR file and redeploy the application onto your configured web application server. See *Create and deploy EAR/WAR files* in the *OFS AAI Installation and Configuration Guide*, available at the OHC Documentation Library.

18. At the command prompt, navigate to the `$FIC_HOME/FTPWebService` directory on the WEB tier and run:

```
./ant.sh
```

This creates the EAR (`<contextname>.ear`) or WAR (`<contextname>.war`) file in the same `$FIC_HOME/FTPWebService` directory.

> **Note**
>
> This step is required even if FTPWebService is not used. The generated EAR or WAR file differs from the file in `$FIC_WEB_HOME` used for standard OFSAA deployments. After `ant.sh` runs from `$FIC_HOME/FTPWebService` with the updated `build.xml`, the `log4j.jar` files are removed.

19. Confirm that a message indicating a successful build is displayed after the EAR or WAR file is created.

20. Stop the web server.

21. Back up the EAR (`<contextname>.ear`) or WAR (`<contextname>.war`) file.

22. Deploy the EAR (`<contextname>.ear`) or WAR (`<contextname>.war`) file in the web server.

23. Clear the web server cache.

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24. Restart all OFSAAI services. See *Start the OFSAA Infrastructure services* in the *OFS AAI Installation and Configuration Guide*, available at the OHC Documentation Library.

25. Configure the document upload settings. See *Configure Document Upload Settings* in the *OFS FTP Installation and Configuration Guide*, available at the OHC Documentation Library.

Complete the post-installation schema checks in Chapter 4, *Post Installation*.

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Python Configuration

Configure Python 3.14.7 and the third-party packages required for this release. Perform the operating system package installation as a superuser; build and configure Python using the application user account.

Pre-installation Check

Ensure that the following libraries are available before building Python:

Required library	Required library
libffi.i686	libffi.x86_64
libffi-devel.i686	libffi-devel.x86_64
bzip2-devel	xz-devel
openssl	openssl-devel
freetype-devel	gcc-c++
sqlite-devel	

> **Note**
>
> These libraries support Python and its packages. Install them before building Python to avoid rebuilding it later. Additional dependencies may be identified during `make` or package installation; install any missing dependencies and rebuild Python as required.

Verify installed packages, for example:

```
yum list installed | grep libffi
```

If a required library is missing, install it using a superuser login. For example:

```
yum install libffi.i686
yum install libffi.x86_64
yum install libffi-devel.i686
yum install libffi-devel.x86_64
yum install bzip2-devel xz-devel openssl openssl-devel
yum install freetype-devel gcc-c++ sqlite-devel
```


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> **Note**
>
> If a proxy is required, configure `/etc/yum.conf` and the system proxy settings. Exit the superuser session and log in using the application user credentials before continuing. For issues related to yum on Oracle Linux, contact My Oracle Support.

Python Installation

The following steps apply to Oracle Enterprise Linux and use the bash shell. For other supported platforms, use the equivalent platform-specific commands.

1. Log on to the server using the application user credentials.

2. Ensure that the server operating system supports Python 3.14.7. Check the applicable technology matrix for platform requirements.

3. Download one of the Python 3.14.7 source archives:

```
wget https://www.python.org/ftp/python/3.14.7/Python-3.14.7.tgz
# Or:
wget https://www.python.org/ftp/python/3.14.7/Python-3.14.7.tar.xz
```

> **Note**
>
> If a proxy is required, set the environment variables to the values for your network:
>
> ```
> export http_proxy=http://<proxy.server>:<port>
> export https_proxy=http://<proxy.server>:<port>
> ```

4. Extract the downloaded archive using the command for its file type:

File type	Command
.tgz	`tar -zxvf Python-3.14.7.tgz`
.tar.xz	`tar -xvf Python-3.14.7.tar.xz`

5. Navigate to the extracted source directory and configure the installation prefix. Use a custom folder accessible to the application user:

```
cd Python-3.14.7
./configure --prefix=<custom_folder> --enable-optimizations
```

For example:

```
./configure --prefix=$HOME/Python-3.14.7 --enable-optimizations
```

6. Build Python:

```
make
```


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> **Note**
>
> If the build fails, run `make clean` and retry. If the system does not support `--enable-optimizations`, reconfigure without that option:
>
> ```
> ./configure --prefix=<custom_folder>
> make clean
> make
> ```

7. Install Python in the configured custom folder:

```
make install
```

8. Edit `.profile` and define `PYTHON_HOME` as the custom installation directory. For example:

```
export PYTHON_HOME=$HOME/Python-3.14.7
```

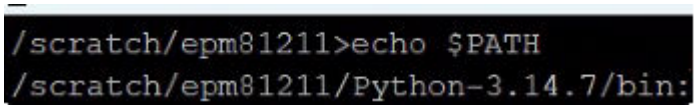
Figure 1: Python Directory



9. After defining `PYTHON_HOME`, add its `bin` directory to `PATH`. Reload the profile and verify the path:

```
export PATH=$PYTHON_HOME/bin:$PATH
. $HOME/.profile
echo $PATH
```

Figure 2: Python Path



10. Navigate to the installation bin directory and verify the installed interpreter:

```
cd "$PYTHON_HOME/bin"
./python3.14 --version
```

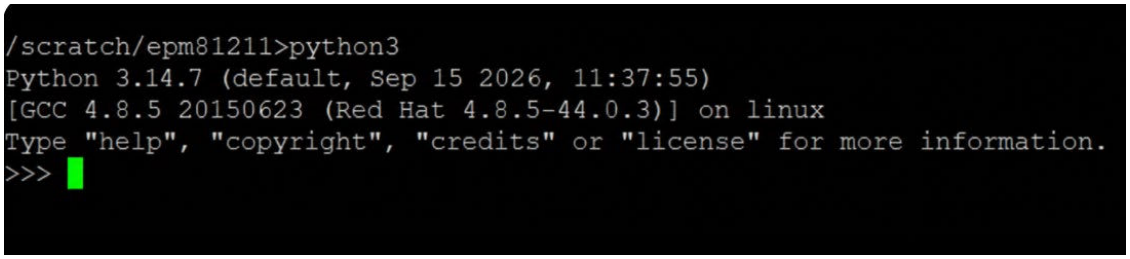
The reported version must be `Python 3.14.7`.

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11. Confirm that `python3` resolves to this installation. If its link is missing, complete step 13 before continuing. Invoke Python and verify that it reports Python 3.14.7:

```
command -v python3
python3
```

Figure 3: Python Prompt



Exit the Python prompt with `exit()`. The screenshots illustrate a custom installation path; use the path configured for your environment.

12. Verify that pip is available for this interpreter:

```
python3 -m pip --version
```

The reported pip location must belong to the Python 3.14 installation. Use the interpreter-qualified pip commands in this guide to install packages. If pip is unavailable, run `python3 -m ensurepip --upgrade`, then verify it again.

13. If the `python3` link is missing from the custom installation bin directory, create it there. Do not replace the operating system Python executable:

```
cd "$PYTHON_HOME/bin"
ln -s python3.14 python3
```

Run this link command only if the link is absent. If `python3` resolves to another installation, correct `PATH` and reload `.profile` before continuing. Use `python3 -m pip` to select the pip associated with the configured interpreter.

Python Packages Installation

Perform the following steps using the application user account:

1. If it is not already present, add `$HOME/.local/bin` to `PATH` in `.profile`:

```
export PATH=$HOME/.local/bin:$PATH
. $HOME/.profile
```

2. Verify the active interpreter and its pip installation:

```
python3 --version
python3 -m pip --version
```


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> **Note**
>
> The Oracle database driver entry below, `cx_oracle==26.0.1`, is retained from the supplied ALM package baseline. Confirm its distribution name and FTP compatibility with My Oracle Support before executing that entry. Do not substitute the distinct `oracledb` distribution without confirming application compatibility.

3. Install the following package versions. Execute the Oracle database driver entry only after the confirmation described above:

```
python3 -m pip install --user seaborn==0.13.2
python3 -m pip install --user numpy==2.5.3
python3 -m pip install --user pandas==3.0.6
python3 -m pip install --user scikit-learn==1.9.1
python3 -m pip install --user scipy==1.18.1
python3 -m pip install --user statsmodels==0.15.0
python3 -m pip install --user matplotlib==3.11.2
python3 -m pip install --user imbalanced-learn==0.14.2
python3 -m pip install --user cx_oracle==26.0.1
python3 -m pip install --user sqlalchemy==2.0.54
python3 -m pip install --user pmdarima==2.1.1
python3 -m pip install --user arch==8.0.0
```

> **Note**
>
> Ensure that the proxy is configured for package installation when required by your network. Set the environment variables before running the package-installation commands:
>
> ```
> export https_proxy=http://<proxy.server>:<port>
> export http_proxy=http://<proxy.server>:<port>
> ```

Verify the Installation

Verify both the installed package versions and the ability to import the packages using the configured Python interpreter.

1. Confirm that Python reports version 3.14.7, then list the installed packages:

```
python3 --version
python3 -m pip freeze
```

Compare the installed versions with the package versions listed in this chapter.

2. Check package dependency consistency:

```
python3 -m pip check
```

Resolve any missing or incompatible dependencies before using the application.

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3. Start Python and import the packages. For example:

```
python3
>>> import numpy
>>> import pandas
>>> import seaborn
>>> import sklearn
>>> import scipy
>>> import statsmodels
>>> import matplotlib
>>> import imblearn
>>> import sqlalchemy
>>> import pmdarima
>>> import arch
>>> exit()
```

Also verify that the confirmed Oracle database driver imports successfully using its supported module name. A successful package listing alone does not verify that a package can be imported.

> **Note**
>
> If package installation or an import fails, retain the error output and contact My Oracle Support. Confirm the package distribution, version, operating system, and Python interpreter before changing the prescribed package baseline.

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Post Installation

Verify the Engine Version in the Log File

The Transfer Pricing Engine log file prints the Intermediate Release (IR) or Maintenance Level (ML) release version for debugging. Use this information to verify that the installation deployed the expected binaries.

For release 8.1.2.11.0, confirm that the reported IR/ML version corresponds to the installed release. A sample line is:

```
"OFS_FTP Application IR/ML version - 8.1.2.11.+"
```

Compile Invalid Schema Objects

After installation, check whether any objects in the application schema remain invalid.

If objects remain invalid, manually execute the following schema compilation script:

```
OFS_FTP_PACK/OFS_FTP/bin/scripts/compileschema.sql
```

For installation errors requiring assistance, raise a Service Request in My Oracle Support.

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4

Additional Configurations

Install the Updated OFSAAI Runner

> **Note**
>
> This is a post-installation configuration and applies if Oracle R Enterprise (ORE) is installed for the Oracle Financial Services Enterprise Modeling (OFS EMF) application. This configuration does not apply to the Tomcat web server.

If OFS Enterprise Modeling is licensed and enabled in your OFSAA instance, uninstall the OFSAAI Runner package and reinstall the latest available OFSAAI Runner package.

For uninstallation and reinstallation instructions, see *Configuring Oracle R Distribution and Oracle R Enterprise (ORE)* in the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide*, available at the OHC Documentation Library.

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Appendix A - Installation of R and Oracle R Enterprise (ORE)

This configuration is optional and required only if you intend to use Term Structure Parameter Estimation under Interest Rates of Rate Management to compute term structure parameters.

Both OFS Funds Transfer Pricing and OFS Asset Liability Management applications require term structure parameters for all Monte Carlo engine-based calculations (OAS, VaR, and EaR).

Prerequisites

- Install R and Oracle R Enterprise Server on the Oracle Database server. See the *Oracle R Enterprise Installation and Administration Guide*.
- Oracle R Enterprise (Server) version 1.4.1.
- Complete the configuration for Oracle R Enterprise.
- Grant the RQADMIN role to the Atomic schema.

Grant the RQADMIN Role

Log in to the database using SQL*Plus with DBA privileges and execute the following command. Replace the placeholder with the Atomic schema name:

```
GRANT RQADMIN TO <atomic_schema>;
```


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OFSAA Support

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to the OFSAA applications.

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