

**Oracle® Revenue Management and Billing for
Financial Services**

Version 2.2.4.0

Quick Installation Guide

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ORACLE®

Oracle Revenue Management and Billing Quick Installation Guide

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Preface

Purpose

This document will help you to understand the installation procedure of the Oracle Revenue Management and Billing (ORMB) application at a high-level. For details, you need to refer to the ORMB Installation Guide.

Intended Audience

The following are the intended audience of this document:

- Users
- Consulting staff
- Administrators

Organization of the Document

The information in this document is organized into the following chapters:

Chapter No.	Chapter Name	Chapter Description
Chapter 1	Oracle Revenue Management and Billing Media Pack Contents	Explains the directory structure of the ORMB Media Pack and lists the components of ORMB.
Chapter 2	Network Environment Overview	Lists the operating system and software requirements for installing the ORMB application.
Chapter 3	Certified and Supported Platforms	Lists the software that needs to be installed for each of the supported operating system and application server combinations.
Chapter 4	Installing Oracle Revenue Management and Billing	Provides the high-level steps for installing the ORMB application.
Chapter 5	Installing Third Party Software	Provides the high-level steps for installing the various third party software required to install the ORMB application.

Conventions

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary
<i>italic</i>	Italic type indicates book titles, emphasis or placeholder variables for which you supply particular values

Convention	Meaning
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen or text that you enter

Related Documents

The following documents are related to this document:

- *Oracle Revenue Management and Billing Release Notes* - Provides information about release notes and known issues.
- *Oracle Revenue Management and Billing Installation Guide* - Provides detailed information about the installation.

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Chapter 1: Oracle Revenue Management and Billing Media Pack Contents

The Oracle Revenue Management and Billing Media Pack consists of the following packages:

- Oracle Revenue Management and Billing V2.2.4 Quick Install Guide
- Oracle Revenue Management and Billing V2.2.4 Install Documentation
- Oracle Revenue Management and Billing V2.2.4 User Documentation (Banking and Insurance)
- Oracle RMB Framework V2.2.0.0 for RMB V2.2.4 Multiplatform
- Oracle Revenue Management and Billing V2.2.4 for Windows / AIX / Linux
- Oracle Revenue Management and Billing V2.2.4 Oracle Database for UNIX (UNIX platform only)
- Oracle Revenue Management and Billing V2.2.4 Oracle Database for Windows (for Windows platform only)
- Oracle Revenue Management and Billing V2.2.4 Documaker
- Oracle Revenue Management and Billing V2.2.4 Reports
- Microfocus Server 5.1 with WrapPack 3 Install (UNIX platform only)
- Microfocus Server Express 5.1 with WrapPack 3 Install (UNIX platform only)
- Micro Focus Net Express 5.1 (Windows platform only)
- Micro Focus Net Express 5.1 WrapPack 3 Update (Windows platform only)
- Windows Base Micro Focus 5.1 Install (Windows platform only)
- Windows Micro Focus Server 5.1 WrapPack 3 Update Install (Windows platform only)

Components for Oracle Revenue Management and Billing

The system can include the following components:

- All application processes and HTML/JSP pages that make up the user interface
- This Quick Installation Guide
- The Installation Guide which describes the installation/upgrade process
- The latest User Documentation, including Release Notes describing functional changes for this release
- Sample COBOL source files
- Database installation with demo data
- Database upgrade scripts
- Data Dictionary
- System Table Guide
- Sample Reports
- Documaker templates

Chapter 2: Network Environment Overview

The application is split into multiple tiers:

Tier 1: Browser-Based Client

The central facility in the Oracle Revenue Management and Billing browser-based client is Internet Explorer.

- Operating System: Windows XP or Windows 7

The following Operating System / Web Browser software is supported:

- Windows XP SP3 or higher with Internet Explorer 6.0 SP3 or higher, 7.0, or 8.0
- Windows 7 with Internet Explorer 8.0

Tier 2: Web Application Server

Oracle Revenue Management and Billing supports the following Web application servers:

- Oracle WebLogic
- IBM WebSphere Application Server
- Apache Tomcat (for development only)

Tier 3: Database Server

Oracle Revenue Management and Billing supports the following databases:

- Oracle

Chapter 3: Certified and Supported Platforms

The installation has been certified to operate on many operating system, application server and database server combinations. For the software requirements for each of these combinations, see Chapter 3 in the *Oracle Revenue Management and Billing Installation Guide*.

The following table lists the operating system and application server combinations on which Oracle Revenue Management and Billing V2.2.4.0 has been tested and certified.

Operating System	Chipset	Application Server			
		Oracle WebLogic 10 MP2	Oracle WebLogic 11gR1 (10.3.5)	Tomcat 6.0.13	IBM WebSphere 6.1.0.27
AIX 5.3 TL 8 (64-bit) Or AIX 6.1 TL 1 (64-bit)	Power 64-bit	32-bit version	N/A	N/A	32-bit version
Windows 2003 Server R2 SP2 (64-bit)	X86_64	32-bit version	32-bit version	32 – bit version development only. No production support	N/A
Oracle Enterprise Linux 5.5 Server (64-bit)	X86_64	32-bit version	32-bit version	N/A	N/A

Oracle Database Servers

Oracle Revenue Management and Billing V2.2.4.0 has been certified with Oracle Database Server 11.2.0.1 and 11.2.0.2 on all of the operating systems listed above.

The Oracle 11.2.0.2 client is required regardless of the version of the database server.

The following Oracle Database Server Editions are supported:

- Oracle Database Server Standard Edition
- Oracle Database Server Enterprise Edition

Third-Party Database Servers

Oracle Revenue Management and Billing V2.2.4.0 has not been certified with third-party database servers.

SDK - Supported Combinations

The SDK is to be installed on a Windows Tomcat platform. Refer to the SDK documentation for installation instructions.

Oracle WebLogic Server Information

The following Oracle WebLogic Server Editions are supported.

- Oracle WebLogic Server Standard Edition
- Oracle WebLogic Server Enterprise Edition

COBOL Download Requirements by Platform

The following are for UNIX except Linux platforms:

- Micro Focus Server 5.1 WrapPack 3
- Micro Focus Server Express 5.1 WrapPack 3
- Micro Focus 5.1 patches for Oracle Revenue Management and Billing. This is required for Micro Focus Server 5.1 and Micro Focus Server Express 5.1.

The following are for Linux platforms:

- Micro Focus Server 5.1 WrapPack 3
- Micro Focus Server Express 5.1 WrapPack 3
- Micro Focus 5.1 patches for Oracle Revenue Management and Billing. This is required for Micro Focus Server 5.1 and Micro Focus Server Express 5.1.

The following are for Windows platforms:

- Micro Focus Server 5.1 WrapPack 3
- Micro Focus Net Express 5.1 WrapPack 3
- Micro Focus 5.1 patches for Oracle Revenue Management and Billing. This is required for Micro Focus Server 5.1 and Micro Focus Net Express 5.1.

Testing with Micro Focus Server 5.1 WrapPack 4 identified performance issues running on the Linux platform. Customers are advised not to upgrade to WrapPack 4 until further notice.

Chapter 4: Installing Oracle Revenue Management and Billing

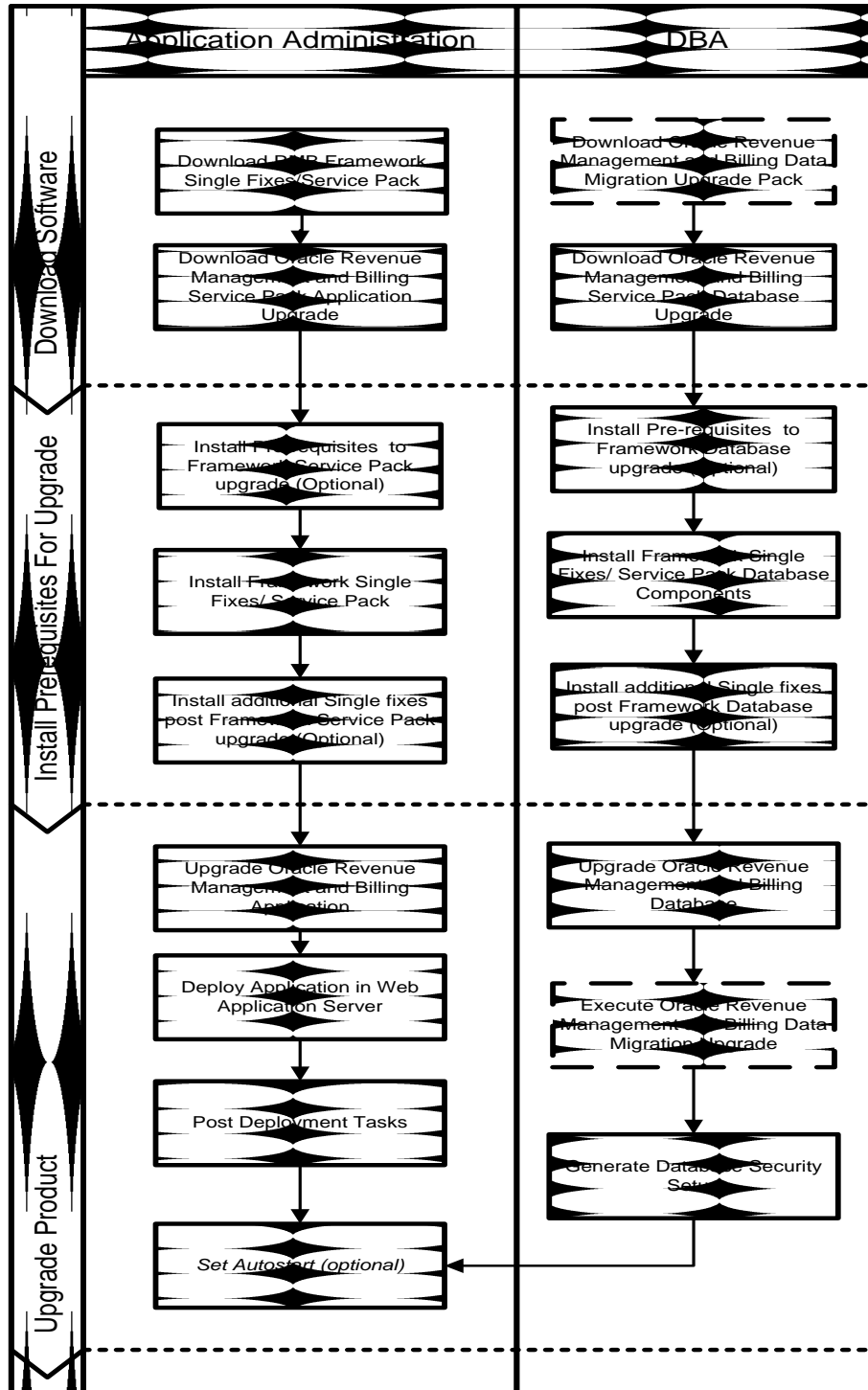
For additional information on installing Oracle Revenue Management and Billing, see the *Oracle Revenue Management and Billing Installation Guide*.

To install Oracle Revenue Management and Billing v2.2.4.0:

1. Install all required third-party software.
2. Install database. See *Oracle Revenue Management and Billing Database Administrator's Guide* for complete details.
3. Install Oracle RMB Framework 2.2 (Application server only).
4. Install Oracle Revenue Management and Billing Application tier.
5. Generate Applications Viewer (this includes the Data Dictionary).

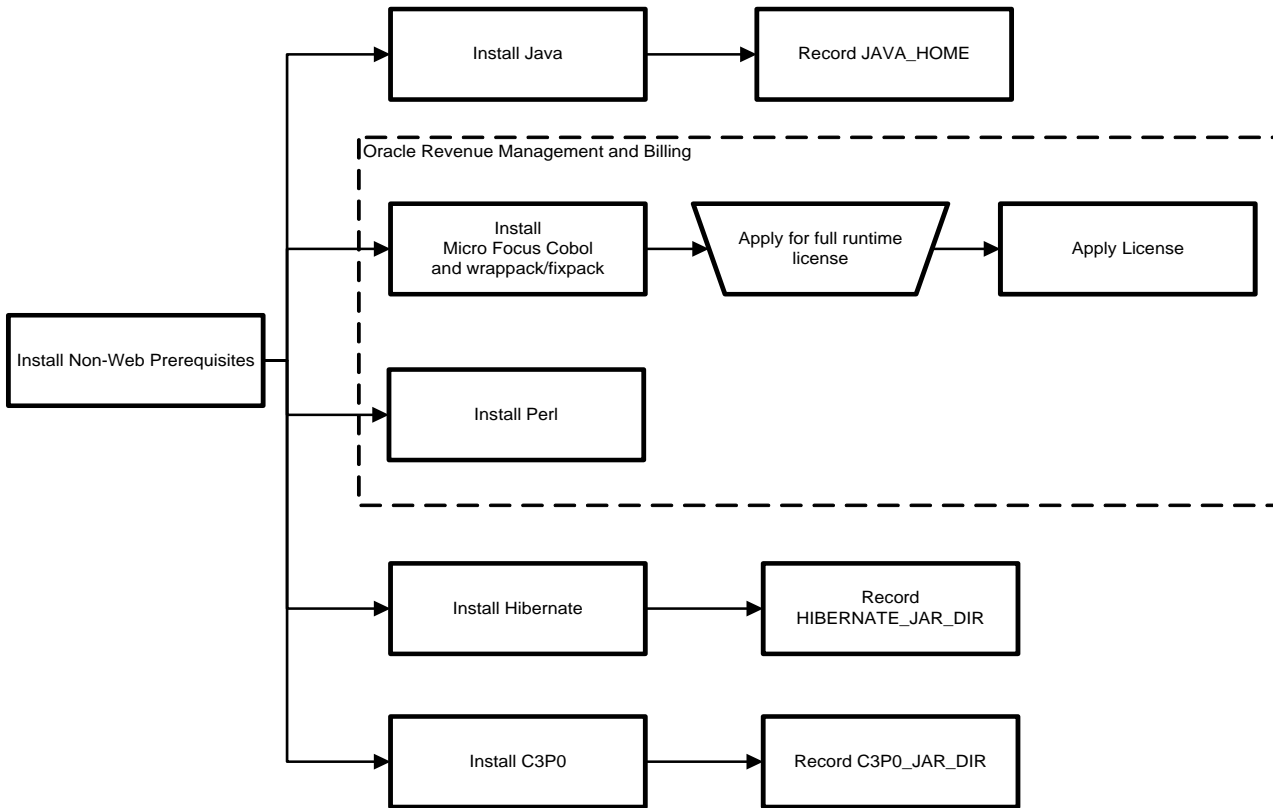
Installation and Configuration Overview

The following diagram provides an overview of the steps that need to be taken to install and configure Oracle Revenue Management and Billing:



Prerequisite Third-Party Software Overview

The following diagram represents an overview of the prerequisite software installation:



Install Required Third-Party Software

For complete details about installing and configuring the prerequisite third party software for your specific platform, see **Chapter 3: Software Requirements** in the *Oracle Revenue Management and Billing Installation Guide*.

Install Database

See Oracle Revenue Management and Billing Database Administrator's Guide for complete details.

Install Oracle RMB Framework 2.2 - Application Server Only

See Oracle Revenue Management and Billing Installation Guide for complete details.

Install Oracle Revenue Management and Billing Application Tier

See Oracle Revenue Management and Billing Installation Guide for complete details.

Chapter 5: Installing Third Party Software

Please read this section and follow directions if you purchased a license from Oracle for any of the following third-party products:

- Oracle WebLogic
- Micro Focus

Oracle WebLogic

Customers must download Oracle WebLogic Server from the Oracle edelivery Web site. The version of Oracle WebLogic Server is in the Oracle Revenue Management and Billing 2.2.4.0 Supported Platforms Summary section.

Note: If you install a temporary license for BEA WebLogic, please note that this license is limited to 5 non-current users. You will need to install the full license.

Install the Oracle WebLogic license

To apply a full license you will need to complete the following steps:

1. The license keys for Oracle WebLogic products are located at - [http:// licensecodes.oracle.com/bea.html](http://licensecodes.oracle.com/bea.html)
2. The following products are supported Oracle WebLogic Server Standard Edition and Oracle WebLogic Server Enterprise Edition.
3. At the time of release of this document the license key on the Web site for Oracle WebLogic Server Standard Edition is Oracle WebLogic Server Advantage. The license key for Oracle WebLogic Server Enterprise Edition on the Web site is BEA WebLogic Server Premium.
4. Shut down the Oracle Revenue Management and Billing application server.
5. Follow the instructions from the Oracle WebLogic installation document to install the license key.
6. Start the Oracle Revenue Management and Billing application server.

Micro Focus

Oracle Revenue Management and Billing supports the following Micro Focus products:

Micro Focus Server (for UNIX, Windows or Linux) (REQUIRED) - A 30-day temporary license is included with your Oracle Revenue Management and Billing license fee. This is the runtime and licensing engine that allows the product's COBOL programs to run in a production environment.

Micro Focus Server Express (for UNIX) (OPTIONAL) - This license is required if you will be developing your own COBOL programs. It compiles COBOL programs for deployment in the UNIX environment.

Micro Focus Net Express (for Windows) (OPTIONAL) - This license is required if you will be developing your own COBOL programs. It compiles COBOL programs for deployment in the Windows environment.

Micro Focus Server Express (for Linux) (OPTIONAL) - This license is required if you will be developing your own COBOL programs. It compiles COBOL programs for deployment in the Linux environment.

Both Net Express and Server Express include a COBOL compiler and a COBOL run-time.

Note:

If you are developing using Java only, Micro Focus Server Express and Micro Focus Net Express are not required.

This product installation does not automatically install permanent licenses. Permanent licenses for Micro Focus Application Server should be acquired through Oracle.

If you are installing both Micro Focus Server and Micro Focus Server Express on the same UNIX machine, you must install Micro Focus Server first.

UNIX Micro Focus Server

Micro Focus Server is the runtime and licensing engine that allows the COBOL programs to run in a production environment. Micro Focus Server is a required prerequisite to installing any Oracle Revenue Management and Billing application.

Install it before you install Server Express. Server Express is an optional additional component used for the development and deployment of COBOL applications only.

Installing UNIX Micro Focus Server Software

Caution: This software MUST be installed into `/opt/SPLcobAS51` on UNIX systems.

To install the UNIX version of the Micro Focus server, complete the following steps:

1. For Linux/UNIX Servers: Download and extract the software in the Micro Focus Server 5.1 package from <http://edelivery.oracle.com>
2. In the top directory run the script `setup.sh` as the root user.
3. Select your Operating system
4. Enter the following responses to the installation questions:
 - Enter the name of the directory where you want to install this product: **/opt/SPLcobAS51**
 - Do you want to make use of COBOL and Java working together? (y/n): **y**
 - What version of Java do you wish to use: **1.6.0 32bit**
 - Please enter either 32 or 64 to set the system default mode: **32**
 - Do you wish to configure Enterprise Server now? (y/n): **n**

Installing UNIX Temporary Licenses

Temporary license codes provided will expire in 30 days. During this time you have to request a full license. If the temporary license is not converted within the 30-day temporary license period the system will stop functioning.

To install these license keys, as root, with COBDIR set:

1. Execute the program:

```
export COBDIR=/opt/SPLcobAS51;/opt/SPLcobAS51/aslmf/aptrack
```
2. When asked for a password, create one of your own.
3. Select the License Install option to install the temporary license keys.

Serial Number: ORACLE_UTS30DAY32

License Code: 04038 10780 64AAF 5F705 7CD9 ILA

FOR AIX PLATFORMS, Additionally install the following license key:

Serial Number: ORACLE_UTS30DAY64

License Code: 04038 A0780 64AAF F2601 3788 ILA

Acquiring Permanent Licenses

To request a permanent license, contact licensecodes_ww@oracle.com with the following information:

- Company Name
- Customer Number
- CSI Number (if available) or a copy of your contract including attachment 1.
- OS Platform and Version
- Full name of Product to be licensed: Micro Focus Server - UNIX

The turnaround time for getting license codes is 48 hours.

Installing UNIX Micro Focus Server Permanent Licenses

Oracle licensing (licensecodes_ww@oracle.com) will provide you a tar file (named MFServerPermLicense.tar). This tar file needs to be placed on your UNIX server and the contents need to be extracted to a new directory.

The tar file will contain a readme.txt file that contains instructions on how to complete the license code installation.

Windows Micro Focus Server

Micro Focus Server is the runtime and licensing engine that allows the COBOL programs to run in a production environment. Micro Focus Server is a required prerequisite to installing any Oracle Revenue Management and Billing application.

Note: Windows Micro Focus Server cannot be installed on the same machine as Micro Focus Net Express. You must have either one or the other per machine, but not both.

Installing Windows Micro Focus Server Software

To install Windows Micro Focus Server:

1. Download and extract the software in the Micro Focus Server 5.1 package.
2. In the top directory of the downloaded package run the executable setup.exe.
3. Select Install Micro Focus Server for COBOL Deployment on Windows.
4. On the **Customer Information** dialog box you don't need to enter a Serial Number or WO number.
5. On the **License Information** dialog box use:

Serial Number: ORACLE_UTS30DAYNX

License Number: 01280 10780 64AA2 1710A 0A83 ILA

This will install a 30 day TEMPORARY LICENSE

6. On the **Custom Setup** dialog box install the following components:

INSTALL Windows Unmanaged Run-time System Support

Do not install Enterprise Server

Do not install Support for Microsoft .NET

Also, ensure that you start the process of acquiring and installing a permanent license key.

Install Windows Micro Focus Required Patches

For Windows installs you will need to install the relevant COBOL patch.

This patch is provided in the Micro Focus 5.1 patches for Oracle Revenue Management and Billing package available from <http://edelivery.oracle.com>.

The package contains a Micro Focus Server\Windows Server subdirectory that contains an .msp file. This file needs to be executed on the Windows machine.

Read the supplied readme.txt file in the same directory of the patch for separate install instructions for this patch. You do not need to provide a license number if asked.

Temporary License Codes

Temporary license codes provided are active for up to 30 days while you request a full license. If the temporary license is not converted within the 30-day temporary license period, you cannot run COBOL programs.

The temporary license codes would have been installed in the above section "Installing Windows Micro Focus Server software".

Acquiring Permanent Licenses

To request a permanent license, contact licensecodes_ww@oracle.com with the following information:

- Company Name
- Customer Number
- CSI Number (if available) or a copy of your contract including attachment 1.

- OS Platform and Version
- Full name of Product to be licensed: Micro Focus Server - Windows

The turnaround time for getting license codes is 48 hours.

Install Windows Micro Focus Server Permanent Licenses

Oracle licensing will email you a license key. This license key will be a plain text key that contains a Serial Number and a License Number component.

To install the license key:

1. Run the apptrack program to install this key. If you accepted the default installation locations for Micro Focus Server, then the executable will be in the following location:

```
C:\Program Files\Micro Focus\Server 5.1\Bin\apptrack.exe
```

2. Select License Install and follow the prompts.

Micro Focus Server Express

Licenses for Micro Focus Server Express are purchased separately for each developer.

Micro Focus Server Express is the COBOL development component for UNIX that allows you to compile COBOL programs. If COBOL development is not required, there is no need to purchase this product.

To complete the installation of Micro Focus Server Express, you must obtain a COBOL Serial Number and a License Key for the number of users licensed to use your system.

Installing Micro Focus Server Express Software

To install Micro Focus Server Express:

1. For Linux/UNIX Servers: Download and extract the software in the Micro Focus Server Express 5.1 package from <http://edelivery.oracle.com>.
2. In the top directory run the script `./setup.sh` as the root user.
3. Select your Operating system.
4. Enter the following responses to the installation questions:
 - Directory for install: **/opt/cobol5.1**
 - Do you want to make use of COBOL and Java working together?: **y**
 - Versions of Java do you want to be the default?: **1.5.0 32bit**
 - Would you like to install LMF now?: **y**
 - Directory name where you wish to install License Manager: **/opt/microfocus/mflmf**
 - Do you want license manager to be automatically started at boot time?: **y**
 - Please enter either 32 or 64 to set the system default mode: **32**
 - Do you wish to configure Enterprise Server now?: **n**
 - Do you want to install XDB?: **n**

Installing Server Express Temporary Licenses

Temporary license codes provided are active for up to 30 days while you request a full license. If the temporary license is not converted within the 30-day temporary license period, you cannot compile COBOL programs.

After installing the COBOL license manager you will need to manually add the following licenses using the "mflmcmd" command.

If you installed the license manager into /opt/microfocus/mflmf then the commands to install the temporary license will be:

```
COBDIR=/opt/microfocus/mflmf
export COBDIR
LD_LIBRARY_PATH=$COBDIR/lib:$LD_LIBRARY_PATH:/lib
export LD_LIBRARY_PATH
cd /opt/microfocus/mflmf
$COBDIR/mflmcmd
```

Select the option "I" for install and use the below Serial Number/License combination.

Serial Number: ORACLE_UTD30DAY32

License Code: 01030 10780 016A6 E700D 0464 ILA

FOR AIX PLATFORMS you need to additionally install the following license key:

Serial Number: ORACLE_UTD30DAY64

License Code: 01030 A0780 016A7 02E06 B500 ILA

Permanent License

To permanently license Server Express, you must obtain a COBOL Serial Number and a License Key for the number of users licensed to use your system.

To request a permanent license, contact licensecodes_ww@oracle.com with the following information:

- Company Name
- Customer Number
- CSI Number (if available) or a copy of your contract including attachment 1.
- OS Platform and Version
- Full name of Product to be licensed: Micro Focus Server Express

The turnaround time for getting license codes is 48 hours.

Installing UNIX Micro Focus Server Express Permanent Licenses

Oracle licensing will email you a license key. This license key will be a text-based key that contains a Serial Number and a License Number component.

If you installed the license manager into /opt/microfocus/mflmf then the commands to install the temporary license will be:

```
COBDIR=/opt/microfocus/mflmf
export COBDIR
```

```
LD_LIBRARY_PATH=$COBDIR/lib:$LD_LIBRARY_PATH:/lib
export LD_LIBRARY_PATH
cd /opt/microfocus/mflmf
$COBDIR/mflmcmd
```

Select the option "I" for install and use the provided Serial Number/License combination.

Micro Focus Net Express

Licenses for Micro Focus Net Express are purchased separately for each developer.

Micro Focus Net Express is the COBOL development component for Windows that allows you to compile COBOL programs. If COBOL development is not required, there is no need to purchase this product. The NetExpress COBOL Compiler product contains the Application Server Run-Time System. When you install and license the COBOL Compiler on a machine, you can compile and run COBOL programs on that machine. It is not necessary to install or license the Application Server Run-Time System on machines where the NetExpress COBOL Compiler is already installed and licensed.

Windows Micro Focus Server cannot be installed on the same machine as Micro Focus Net Express. You must have either one or the other per machine, but not both.

Installing Micro Focus Net Express

If you need to compile, or compile and run, COBOL programs on a Windows machine you can install and license the Micro Focus Net Express 5.1 COBOL Compiler.

1. Download the Micro Focus Net Express 5.1 package from <http://edelivery.oracle.com>.
2. Execute the setup.exe from the base directory of the install.
3. Go straight to the option **Install Net Express**.
4. On the **Customer Information** dialog box you do not need to enter a Serial Number or WO number.
5. On the **Custom Setup** dialog box install the following components:
Install Net Express support for Windows & Cross Platform.
Do not install anything else.
6. Download the Net Express 5.1 WrapPack3 package from E-Delivery and execute the .msp file contained within the package.

Temporary License

The COBOL Compiler installation includes a temporary license, which is active for up to 30 days while you request a full license. If the temporary license is not converted within the 30-day temporary license period, you cannot compile or run COBOL programs.

Permanent License

Obtaining a full license requires a REQUESTKEY/RESPONSE KEY. A request key is generated during the Net Express installation by encrypting unique hardware identifiers. Access is granted when a response key is entered that matches the request key.

Completing the Permanent License Process

To generate the license:

1. Request the response key by sending an email to licensecodes_ww@oracle.com. Include your Company Name, Customer ID, CSI number (if available), and the request key.
2. Click **Licensing** in the Protection System dialog box to determine your request key (and to enter your response key when you get it). Or, go to **Start, Program, Micro Focus Net Express X.X, Configuration, License Management System**.
3. Click **Generate Full License** to obtain the request key and to enter the response key.

Note: Disregard any instructions during the installation, or in the online documentation, that direct you to contact Micro Focus for your Response Key.

You can deploy Net Express to as many computers as allowed by your license. However, installation on a new machine generates a new request key. You must secure an additional, unique response key for each new installation.

The turnaround time for getting license codes is 48 hours.

Contacting Oracle Support

Please follow this link <http://www.oracle.com/us/support/index.html> to contact Oracle Support.