

Oracle Utilities Customer Care and Billing

Quick Install Guide

Release 2.4.0 Service Pack 3

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Preface

This guide provides an overview of installing Oracle Utilities Customer Care and Billing.

Audience

Oracle Utilities Customer Care and Billing Installation Guide is intended for anyone interested in the process of installing Oracle Utilities Customer Care and Billing.

Related Documents

For more information, refer to these Oracle documents:

Installation Guides and Release Notes

- *Oracle Utilities Customer Care and Billing V2.4.0.3 Release Notes*
- *Oracle Utilities Customer Care and Billing V2.4.0.3 Quick Install Guide*
- *Oracle Utilities Customer Care and Billing V2.4.0.3 Installation Guide*
- *Oracle Utilities Customer Care and Billing V2.4.0.3 Database Administrator's Guide*
- *Oracle Utilities Customer Care and Billing V2.4.0.3 Optional Product Installation Guide*
- *Oracle Utilities Customer Care and Billing V2.4.0.3 License Information User Guide*

Administration and Business Process Guides

- *Oracle Utilities Customer Care and Billing V2.4.0.3 Administration Guide*
- *Oracle Utilities Customer Care and Billing V2.4.0.3 Business Process Guide*
- *Oracle Utilities Application Framework V4.2.0.3 Administration Guide*
- *Oracle Utilities Application Framework V4.2.0.3 Business Process Guide*

Supplemental Documents

- *Oracle Utilities Customer Care and Billing V2.4.0.3 Batch Server Administration Guide*
- *Oracle Utilities Customer Care and Billing V2.4.0.3 Server Administration Guide*
- *Oracle Utilities Customer Care and Billing V2.4.0.3 Security Guide*

Updates to this Documentation

This documentation is provided with the version of the product indicated. Additional and updated information about the operations and configuration of the product is available from the

Conventions

The following text conventions are used in this document:

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.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Chapter 1

Oracle Utilities Customer Care and Billing Installation Overview

This section provides a high-level overview of the installation steps for Oracle Utilities Customer Care and Billing (CCB) version 2.4.0.3 and selected additional software. For more information, see *Oracle Utilities Customer Care and Billing Installation Guide*.

This section includes the following topics:

- [Oracle Utilities Customer Care and Billing Media Packs](#)
- [Network Environment Overview](#)
- [Supported Platforms](#)
- [Installing Oracle Utilities Customer Care and Billing](#)
- [Installing Additional Software](#)
- [Contacting Oracle Support](#)

Oracle Utilities Customer Care and Billing Media Packs

The following Media Packs are available for the 2.4.0.3 release:

- Oracle Utilities Customer Care and Billing Release 2.4.0.3.0 with 3rd Party Software Media Pack v1 for IBM AIX on POWER Systems (64-bit)
- Oracle Utilities Customer Care and Billing Release 2.4.0.3.0 with 3rd Party Software Media Pack v1 for Linux x86-64
- Oracle Utilities Customer Care and Billing Release 2.4.0.3.0 with 3rd Party Software Media Pack v1 for Microsoft Windows (32-bit)
- Oracle Utilities Customer Care and Billing Release 2.4.0.3.0 with 3rd Party Software Media Pack v1 for Microsoft Windows x64 (64-bit)
- Oracle Utilities Customer Care and Billing Release 2.4.0.3.0 with 3rd Party Software Media Pack v1 for Oracle Solaris on SPARC (64-bit)
- Oracle Utilities Customer Care and Billing Release 2.4.0.3.0 with 3rd Party Software Media Pack v1 for HP UXia (64-bit)

The Media Packs contain the following packages:

- Oracle Utilities Customer Care and Billing V2.4.0.3.0 Quick Install Guide
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 Release Notes
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 Install Documentation
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 User Documentation
- Oracle Utilities Application Framework V4.2.0.3.0 Multiplatform
- Oracle Utilities Application Framework V4.2.0.3.0 Prerequisite Single Fixes
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 for AIX
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 for Linux
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 for Solaris
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 for HP UX
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 for Windows 32-bit
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 for Windows 64-bit
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 Oracle Database
- Oracle Utilities Customer Care and Billing V2.4.0.3.0 Reports
- IBM AIX Microfocus Server 5.1 with WrapPack 8 Install
- IBM AIX Microfocus Server Express 5.1 with WrapPack 8 Install
- IBM AIX Microfocus Server Express 5.1 with WrapPack 7 Install
- Linux Microfocus Server 5.1 with WrapPack 8 Install
- Linux Microfocus Server Express 5.1 with WrapPack 8 Install
- Linux Microfocus Server Express 5.1 with WrapPack 7 Install
- Oracle Solaris SPARC Microfocus Server 5.1 with WrapPack 8 Install
- Oracle Solaris SPARC Microfocus Server Express 5.1 with WrapPack 8 Install
- Oracle Solaris SPARC Microfocus Server Express 5.1 with WrapPack 7 Install
- HP-UXia Microfocus Server 5.1 with WrapPack 8 Install

-
- HP-UXia Microfocus Server Express 5.1 with WrapPack 8 Install
 - HP-UXia Microfocus Server Express 5.1 with WrapPack 7 Install
 - Windows Microfocus Net Express 5.1 with WrapPack 6 Install
 - Windows Microfocus Net Express 5.1 WrapPack 7 Update
 - Windows Microfocus Net Express 5.1 WrapPack 8 Update
 - Windows Microfocus Server 5.1 Install
 - Windows Microfocus Server 5.1 WrapPack 7 Update
 - Windows Microfocus Server 5.1 WrapPack 8 Update
 - IBM AIX Microfocus Server 5.1 with WrapPack 9 Install
 - Linux Microfocus Server 5.1 with WrapPack 9 Install
 - Oracle Solaris Microfocus Server 5.1 with WrapPack 9 Install
 - HP-UXia Microfocus Server 5.1 with WrapPack 9 Install
 - Windows Micro Focus Server 5.1 WrapPack 9 Update
 - IBM AIX Microfocus Server 5.1 with WrapPack 10 Install
 - Linux Microfocus Server 5.1 with WrapPack 10 Install
 - Oracle Solaris Microfocus Server 5.1 with WrapPack 10 Install
 - HP-UXia Microfocus Server 5.1 with WrapPack 10 Install
 - Windows Micro Focus Server 5.1 WrapPack 10 Update

Components for Oracle Utilities Customer Care and Billing

The system can include the following components:

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

Network Environment Overview

The application is split into multiple tiers:

Tier 1: Browser-Based Client

The following operating system and web browser combinations are supported:

- Windows 7 (32-bit or 64-bit) with Internet Explorer 8.x, 9.x, or 10.x, 11
- Windows 8.1 with Internet Explorer 11

Note: Internet Explorer 8.x, 9.x, 10.x and 11 must have Compatibility Mode enabled.

Tier 2: Web Application Server

Oracle Utilities Customer Care and Billing supports the following Web application servers:

- Oracle WebLogic
- IBM WebSphere Application Server

Tier 3: Database Server

Oracle Utilities Customer Care and Billing supports the Oracle database server.

Supported Platforms

This section includes:

- [Operating Systems and Application Servers](#)
- [Oracle Database Servers](#)
- [SDK - Supported Combinations](#)
- [Oracle WebLogic Server Information](#)
- [COBOL Download Requirements by Platform](#)

Operating Systems and Application Servers

The installation is supported on many operating system, application server, and database server combinations. For the software requirements for each of these combinations, see the Oracle Utilities Customer Care and Billing *Installation Guide*.

The following table details the operating system and application server combinations on which this version of Oracle Utilities Customer Care and Billing is supported.

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database
Windows 7* (Internet Explorer 9.x or 10.x, in Compatibility Mode)	AIX 7.1 TL1	POWER 64-bit	WebLogic 10.3.6 WebLogic 12.1.3.0+* WebSphere 8.5/8.5.5	Oracle 11.2.0.1+ Oracle 12.1.0.1+
	Oracle Linux 5.x/6.x/7.x(64-bit) (based on Red Hat Enterprise Linux** 5.x/6.x/7.x(64-bit))	x86_64	WebLogic 10.3.6 WebLogic 12.1.3.0+*	Oracle 11.2.0.1+ Oracle 12.1.0.1+
	Oracle Solaris 10 or 11 (64-bit)	SPARC	WebLogic 10.3.6 WebLogic 12.1.3.0+*	Oracle 11.2.0.1+ Oracle 12.1.0.1+
Windows 8.1 (Internet Explorer 11 in Compatibility Mode)	Windows Server 2008 R2 (64-bit)	x86_64	WebLogic 10.3.6 WebLogic 12.1.3.0+*	Oracle 11.2.0.1+ Oracle 12.1.0.1+
	Windows Server 2012 (64-bit)			
	Windows Server 2008 (32-bit)			
	HP-UX 11.31 (64-bit)	ia64	WebLogic 10.3.6 WebLogic 12.1.3.0+*	Oracle 11.2.0.1+ Oracle 12.1.0.1+

* A plus sign (+) after the fourth digit in the version number indicates that this and all higher versions of WebLogic are supported. For example, 12.1.3.0+ means that 12.1.3.0 and any higher 12.1.3.x.x versions are supported.

** Oracle Utilities Customer Care and Billing is tested and supported on the versions of Oracle Linux specified. Because Oracle Linux is 100% userspace-compatible with Red Hat Enterprise Linux, Oracle Utilities Customer Care and Billing also is supported on Red Hat Enterprise Linux for this release.

The platforms listed above are current at the time of release. For the most current supported platforms, please refer to Oracle Utilities Product Matrix on My Oracle Support (MOS) Knowledge Article (Doc ID 1454143.1).

Oracle Database Servers

Oracle Utilities Customer Care and Billing version Release 2.4.0 Service Pack 3 is supported with Oracle Database Server 11.2.0.1+ and Oracle Database 12.1.0.1+ on all of the operating systems listed above.

The following Oracle Database Server Editions are supported:

- Oracle Database Enterprise Edition
- Oracle Database Standard Edition

Note: Oracle Database Enterprise Edition and the Partitioning and Advanced Compression options are not mandatory but recommended. Standard Edition should only be considered suitable for very small, pilot projects or development environments where scalability, performance, and database size-on-disk are not important considerations. Oracle Database Enterprise Edition, including the Advanced Compression and Partitioning options, is strongly recommended in all other situations.

SDK - Supported Combinations

Refer to the SDK documentation for supported platforms and 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/Linux platforms:

- Microfocus Server 5.1 WrapPack 7
- Microfocus Server Express 5.1 WrapPack 7
- Microfocus Server 5.1 WrapPack 8
- Microfocus Server Express 5.1 WrapPack 8
- Microfocus Server 5.1 WrapPack 9
- Microfocus Server Express 5.1 WrapPack 9
- Microfocus Server 5.1 WrapPack10
- Microfocus Server Express 5.1 WrapPack10

The following are for Windows platforms (32 bit and 64 bit):

- Windows Microfocus Net Express 5.1 with WrapPack 6 Install
- Windows Microfocus Net Express 5.1 WrapPack 7 Update
- Windows Microfocus Server 5.1 Install
- Windows Microfocus Server 5.1 WrapPack 7 Update
- Microfocus Server 5.1 WrapPack 8

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- Microfocus Server Express 5.1 WrapPack 8
 - Windows Microfocus Server 5.1 Install WrapPack 6 Install
 - Windows Microfocus Server 5.1 Install WrapPack 8 Update
 - Windows Microfocus Server 5.1 Install WrapPack 9 Update
 - Windows Microfocus Server 5.1 Install WrapPack 10 Update

Installing Oracle Utilities Customer Care and Billing

For additional information on installing Oracle Utilities Customer Care and Billing, see the *Oracle Utilities Customer Care and Billing Installation Guide*.

To install Oracle Utilities Customer Care and Billing V2.4.0.3:

1. Install all required third-party software.
2. Install database. See *Oracle Utilities Customer Care and Billing Database Administrator's Guide* for complete details.
3. Install Oracle Utilities Application Framework version 4.2 Service Pack 3 (4.2.0.3.0).
4. Install Single Fix Prerequisites.
5. Install Oracle Utilities Customer Care and Billing version 2.4.0.3.

For instructions on installing the service pack, see the *Oracle Utilities Customer Care and Billing Installation Guide* included with the service pack.

6. Generate Application Viewer items (this includes the Data Dictionary).

Oracle VM Support

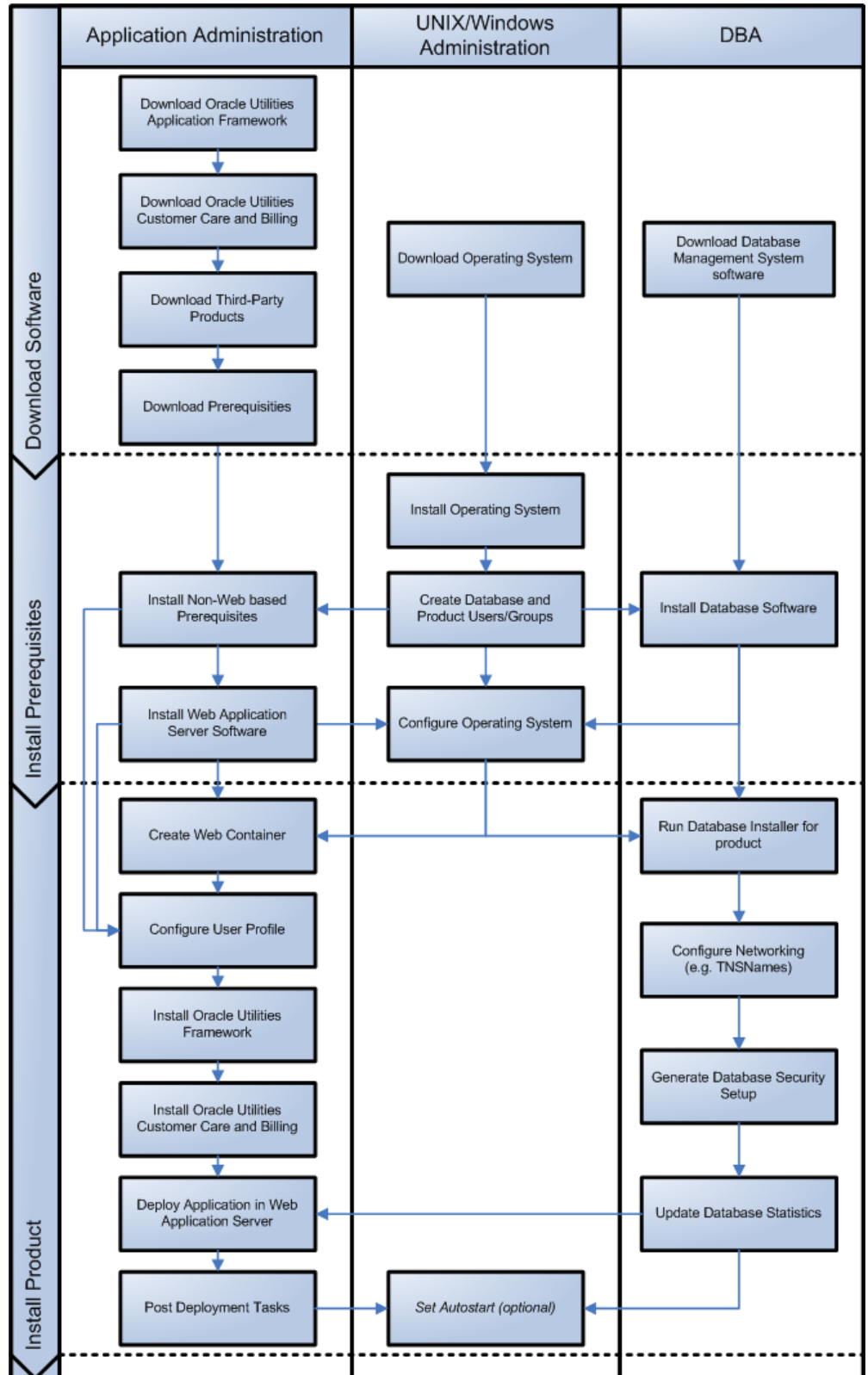
Oracle Utilities Customer Care and Billing version 2.4.0 is supported on Oracle VM Server for x86 for supported releases of Oracle Enterprise Linux and Microsoft Windows operating systems.

Oracle Support Policy Regarding VMware

Please refer to My Oracle Support knowledge base article 249212.1 for Oracle's support policy regarding VMWare.

Installation and Configuration Overview

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



Installing Additional Software

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

- [Oracle WebLogic](#)
- [Micro Focus](#)

Oracle WebLogic

Customers must download Oracle WebLogic Server from the Oracle Software Delivery Cloud. The supported version of Oracle WebLogic Server is listed in [Operating Systems and Application Servers](#).

Micro Focus

This section includes:

- [Supported Micro Focus Products](#)
- [Micro Focus Server for UNIX](#)
- [Micro Focus Server for Windows](#)
- [Micro Focus Server Express for UNIX](#)
- [Micro Focus Net Express for Windows](#)

Supported Micro Focus Products

Oracle Utilities Customer Care and Billing supports the following Micro Focus products:

Micro Focus Server (for UNIX or Windows) (REQUIRED). This is the runtime and licensing engine that allows the product's COBOL programs to run in a production environment. A license is included with your Oracle Utilities Customer Care and Billing license fee. The media pack includes a 30-day temporary license code that can be used while you request the permanent license code from Oracle.

Micro Focus Server Express (for UNIX) (OPTIONAL). This software is used to compile COBOL programs for deployment in a UNIX environment. This license is required if you will be developing your own COBOL programs.

Micro Focus Net Express (for Windows) (OPTIONAL). This software is used to compile COBOL programs for deployment in the Windows environment. This license is required if you will be developing your own COBOL programs.

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

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

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

Caution: 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.

Note: Refer to [COBOL Download Requirements by Platform](#).

Micro Focus Server for UNIX

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 Utilities Customer Care and Billing application.

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

Installing Micro Focus Server Software for UNIX

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 WrapPack 7 or WrapPack 8 or WrapPack 9 or WrapPack 10 package from the Oracle Software Delivery Cloud.
2. If the file you downloaded from the Oracle Software Delivery Cloud is compressed, uncompress it into a temporary directory so that you are left with a .tar file.

In this example we are using the file /tmp/SX51_WP7_redhat_x86_64_server.tar.Z

```
uncompress /tmp/SX51_WP7_redhat_x86_64_server.tar.Z
```

3. Create a directory to contain the COBOL executables:

```
mkdir /opt/SPLcobAS51
```

4. Extract the tar file into /opt/SPLcobAS51:

```
cd /opt/SPLcobAS51; tar -xvf /tmp/SX51_WP7_redhat_x86_64_server.tar
```

5. Start the installation program:

```
COBDIR=/opt/SPLcobAS51; export COBDIR  
cd $COBDIR; ./install
```

6. Enter the following responses to the installation questions:

- Do you want to make use of COBOL and Java working together? (y/n): y
- Which of these versions of Java do you want to be the default?: 1.6.0 64-bit
- Please enter either 32 or 64 to set the system default mode: 64
- Do you wish to configure Enterprise Server now? (y/n): n

Installing UNIX Micro Focus Server Temporary Licenses

Temporary license codes provided in the media pack 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:

1. Log onto the target host server as 'root' user.
2. At the command prompt, execute the command:

```
export COBDIR=/opt/SPLcobAS51;/opt/SPLcobAS51/aslmf/apptack
```
3. When prompted for a password, create one of your own.
4. 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, an additional license is required. Install the following license key:

Serial Number: ORACLE_UTS30DAY64

License Code: 04038 A0780 64AAF F2601 3788 ILA

Acquiring Permanent Micro Focus Licenses

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

- Your Company Name
- Your Customer Number
- CSI Number (if available) or a copy of your contract including attachment 1.
- The OS Platform and Version that you will be running on
- 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. Place this tar file on your UNIX server and extract the contents to a new directory. This directory will contain a readme.txt file with instructions on how to complete the license code installation.

Micro Focus Server for Windows

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 Utilities Customer Care 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 Micro Focus Server Software for Windows

You must install this software as an administrator.

1. Download the Windows Microfocus Server 5.1 Install package from the Oracle Software Delivery Cloud and extract the software in the package.
2. In the top directory of the extracted 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
7. Download the Windows Microfocus Server 5.1 with WrapPack 7 Update or the Windows Microfocus Server 5.1 with WrapPack 8 package or the Windows Microfocus Server 5.1 with

WrapPack 9 or the Windows Microfocus Server 5.1 with WrapPack 10 package from the Oracle Software Delivery Cloud and execute the file contained within the package

See [Acquiring Permanent Micro Focus Licenses](#) to ensure that you start the process of acquiring and installing a permanent license key.

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 section [Micro Focus Server for Windows](#).

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 aptrack 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\aptrack.exe`

2. Select License Install and follow the prompts.

Micro Focus Server Express for UNIX

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 the Server Express Software

This software can be installed into any location (but should not be installed to the Micro Focus Server directory/opt/SPLcobAS51). For demonstration purposes we have chosen “/opt/cobol5.1”.

1. For Linux /UNIX servers: Download and extract the software in the Micro Focus Server Express 5.1 WrapPack 7 or WrapPack 8 or WrapPack 9 or WrapPack 10 package from the Oracle Software Delivery Cloud.

2. If the file you downloaded from the Oracle Software Delivery Cloud is compressed, uncompress it into a temporary directory so that you are left with a .tar file.

In this example we are using the file /tmp/SX51_WP7_redhat_x86_64_dev.tar.Z

```
uncompress /tmp/SX51_WP7_redhat_x86_64_dev.tar.Z
```

3. Create a directory to contain the COBOL executables:

```
mkdir /opt/cobol5.1
```

4. Extract the tar file into /opt/cobol5.1:

```
cd /opt/cobol5.1; tar -xvf /tmp/SX51_WP7_redhat_x86_64_dev.tar.tar
```

5. Start the installation program:

```
COBDIR=/opt/cobol5.1; export COBDIR
cd $COBDIR; ./install
```

6. Enter the following responses to the installation questions:

Do you want to make use of COBOL and Java working together?: y

Versions of Java do you want to be the default?: 1.6.0 64-bit

Would you like to install LMF now?: y

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: 64

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 for Windows

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 Net Express 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 Net Express 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. You must install this software as an administrator.

1. Download the Windows Microfocus Net Express 5.1 with WrapPack 6 Install package from the Oracle Software Delivery Cloud.
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 Windows Microfocus Net Express 5.1 WrapPack 7 Update or Windows Microfocus Net Express 5.1 WrapPack 8 package or Windows Microfocus Net Express 5.1 WrapPack 9 or Windows Microfocus Net Express 5.1 WrapPack 10 from the Oracle Software Delivery Cloud and execute the 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

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.

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/support/index.html> to contact Oracle Support