Micro Focus Visual COBOL 2.1 Update 1 Development Hub SOA

Release Notes

2013-03-22

Contents

Visual COBOL Development Hub SOA Release Notes

These release notes contain information that might not appear in the Help. Read them in their entirety before you install the product.

Note: This document contains a number of links to external Web sites. Micro Focus cannot be responsible for the contents of the Web site or for the contents of any site to which it might link. Web sites by their nature can change very rapidly and although we try to keep our links up-to-date, we cannot guarantee that they will always work as expected.

Visual COBOL Development Hub SOA is the UNIX component of Visual COBOL SOA for Eclipse that enables you to develop COBOL applications and expose them as Web Services on a remote Unix/Linux machine.

Installation

Note: If you are installing on Solaris, please read *UNIX Installer Issues* first.

System Requirements for Visual COBOL SOA Development Hub

Hardware Requirements

The disk space requirements are:

- Between 26 and 33 MB for the Sentinel RMS license server depending on the platform.
- Between 206 and 427 MB for Micro Focus Development Hub depending on the platform.

    Note: The installation requires extra disk space that equals the size of the product you install.

Operating Systems Supported

- POWER running AIX 6.1 TL7 SP5/7.1 TL1 SP5 - 32/64-bit
- x86-64 running Red Hat Linux 5.5/5.8/6.3, Oracle Linux 6.3 with Red Hat Kernel compatibility mode, Oracle Linux 6.3 with Unbreakable Enterprise Kernel - 32/64-bit
- SPARC running Solaris 10/11 - 32/64-bit
- x86-64 running SuSE SLES 11/11 SP2 - 32/64-bit
- System Z running SuSE SLES 11 SP2 - 32/64-bit
- System Z running Red Hat Linux 6.2/6.3- 32/64-bit
- HP IA 11.31 - 32/64-bit

Software Requirements

Before installing this product, you must have the following software installed on your computer:

- Before installing on Red Hat 6.*x*, you must have the 32-bit operating system libraries installed:

    GNU Standard C++ Library - libstdc++(i686 version)
    The object files for development using standard C libraries – glibc-devel (i686 version)

    Check the *Red Hat Web site* for more information.
- To use the Web installer on Red Hat Enterprise Linux 6.*x*, you must have the following bug fix updates for Red Hat installed:

    glibc-2.12-1.25.el6_1.3.i686.rpm
    openldap-2.4.23-15.el6.i686.rpm
    nss-pam-ldapd-0.7.5-7.el6.i686.rpm
    zlib-1.2.3-25.el6.i686.rpm
    nss-3.12.9-9.el6.i686.rpm
    nss-util-3.12.9-1.el6.i686.rpm
    cyrus-sasl-lib-2.1.23-8.el6.i686.rpm

You do not need these updates if you use the full product setup file to install the product.

1. Java Platform Standard Edition (Java SE) 6 Update 27 or Java 7 is required to execute COBOL JVM code and for native COBOL and Java interoperability.

    Note: On AIX 6.1 v2, the minimum required version is Java 6.0 SR10.

    You can download Java SE from *www.oracle.com* and install it anywhere on your machine.

* You need to install Xterm, the terminal emulator for the X Window System. Xterm is part of your Linux/UNIX distribution but is not installed by default. Use your Linux/UNIX installation media to install it.

    Important: This release requires version 10000.2.990 or later of the Micro Focus licensing software. For local servers, you do not need to install it separately, as the setup file installs a new Visual COBOL SOA client and a new licensing server on the same machine.

    If you have a network server, you must update the license server before installing the product as the client is not able to communicate with license servers of versions older than 10000.2.660. To check the version of the license server on UNIX, run `/var/microfocuslicensing/bin/mfcesver` or `/var/microfocuslicensing/bin/cesadmintool.sh`.

    You can download the new version of the license server software from the Micro Focus SupportLine Web site: *http://supportline.microfocus.com/websync/SLM.aspx*.

Before you start the installation, you need to set the environment as follows:

* Set the JAVA_HOME environment variable. When installing the product, set this variable to a 32-bit Java installation or the installation terminates. For example, execute the following:

    ```
    JAVA_HOME=java_install_dir
    ```

    where *java_install_dir* is the path to the JAVA installation directory such as `/usr/java/javan.n`

* Add `$JAVA_HOME/bin` to your system PATH variable. To do this, execute:

    ```
    export PATH=$JAVA_HOME/bin:$PATH
    ```

* Set the LANG environment variable to pick up localized messages. The LANG settings are English and Japanese only.

Installing Visual COBOL SOA Development Hub

Downloading the Product

1. Use the download links in your Electronic Product Delivery email.

    For more information follow the links for the installation instructions and the End User License Agreement.

Installing

Note:

During the installation process, the installer configures the product's Enterprise Server System Administrator Process User ID. The Process User ID will be the owner of all Enterprise Server processes except the one for the Micro Focus Directory Server (MFDS). The Directory Server process (Enterprise Server Administration) runs as root as this allows it to access the system files and ports.

All enterprise server processes you start from Enterprise Server Administration run under the Process User ID which can affects the file access and creation.

By default, the installer uses the login id of the user that runs the installer for the Process User ID. To change the user id after you complete the installation, execute `$COBDIR/bin/casperm.sh`.

To use the Web Installer:

1. Give the Web installer file execute permissions as follows:
   ```
   chmod +x webinstaller_entdev_2.1_update1_platform
   ```
2. Run the installer with superuser permissions:
   ```
   ./webinstaller_entdev_2.1_update1_platform
   ```

   If you don't run this as superuser you will be prompted to enter the superuser password during the installation.

Alternatively, you can use the setup file and install the product as follows:

1. Give execute permissions to the setup file:
   ```
   chmod +x setup_entdev_2.1_update1_platform
   ```
2. Run the installer with superuser permissions:
   ```
   ./setup_entdev_2.1_update1_platform
   ```

   If you don't run this as superuser you will be prompted to enter the superuser password during the installation.

The COBOL environment is installed by default into `/opt/microfocus/VisualCOBOL`.

To install in a different location use the `-installlocation="Location"` parameter to specify an alternative directory location. For example:
```
./webinstaller_entdev_2.1_update1_platform -installlocation="full path of
new location"
```

or
```
./setup_entdev_2.1_update1_platform -installlocation="full path of new
location"
```

You can see details about which additional parameters can be passed to the install script if you enter the `-help` option.

You can use the following options to configure the Enterprise Server installation: `[ -ESsysLog="location" ] [ -ESadminID="User ID" ] [ -CASrtDir="location" ]`, where:

-ESsysLog   Specifies a location in which the build will create the Enterprise Server System log file - for example, `-ESsysLog="/home/esuser/logs"`. The default location is `/var/mfcobol/logs`.

-ESadminID   Sets the Enterprise Server System Administrator Process User ID from the command line - for example, `-EDadminID="esadm"`. The default user ID is the one that runs the installer.

-CASrtDir   Specifies the location were the Enterprise Server run-time system files are placed - for example, `-CASrtDir="/home/esuser/casrt/es"`. The default location is `/var/mfcobol/es`.

Note:

- The installation of this product could affect the SafeNet Sentinel licensed components running on your machine. During installation licensing is shutdown to allow files to be updated. To ensure the processes running on your machine are not affected, you need to use the –skipsafenet option, which skips the installation of SafeNet:
  ```
  ./setup_entdev_2.1_update1_platform -skipsafenet
  ```

- To protect the SafeNet Sentinel installation from accidental updating you can create an empty file named `SKIP_SAFENET_INSTALL` in `/var/microfocuslicensing/` as follows:

```
touch /var/microfocuslicensing/SKIP_SAFENET_INSTALL
```

    While the file is present, the SafeNet installer does not make changes to the installation or shutdown the running license daemons. If later licensing needs to be updated, remove the file and install Sentinel RMS server manually.

Set up the environment

When you have installed the product, you need to set the environment as described below.

1. To set up your product, execute:

```
./opt/microfocus/EnterpriseDeveloper/bin/cobsetenv
```

2. To verify that your product is installed, execute:

```
cob -Version
```

⚠️ **Important:** These commands set the environment only for the current shell. You need to execute them for each new shell that you start.

To avoid having to run `cobsetenv` for every shell, add these commands to the shell initialization files (`etc/profile`, `etc/bashrc`, etc.)

Note that `cobsetenv` is only compatible with POSIX-like shells, such as bash, ksh, or XPG4 sh. It is not compatible with C-shell or pre-XPG4 Bourne shell.

✏️ **Note:** For information about the Visual COBOL SOA Development Hub, check the help for Visual COBOL SOA for Eclipse that is available online on the *Micro Focus Infocenter*.

UNIX Installer Issues

License Infrastructure Installer

On some Solaris platforms, you can receive the following error message when SafeNet license server needs to be installed or upgraded on your machine:

```
tar: /safenet.tar: No such file or directory
```

To resolve this issue, wait for the installation to complete and then perform the following:

1. Navigate to the `safenet` directory in the COBDIR location.
2. With superuser permissions execute: `./MFLicenseServerInstall.sh`

License Server

On UNIX, you need to configure the computer hostname to ensure the license server will start properly.

To avoid performance issues, "localhost" and the computer hostname must not both be mapped to IP address 127.0.0.1. You should only map "localhost" to IP address 127.0.0.1.

The following is an example of how to specify these entries correctly in the etc/hosts file:

```
127.0.0.1 localhost.localdomain localhost
IP machinelonghostname machineshorthostname
```

where *IP* is the unique IP address of the computer in xx.xx.xx.xx format.

Configuring the Remote System Explorer Support

The remote development support from the Eclipse IDE relies upon Visual COBOL SOA Development Hub running on the UNIX machine and handling all requests from the IDE for building and debugging programs. Visual COBOL SOA Development Hub provides a UNIX daemon, the Remote Development Option (RDO)

daemon, which initiates the RDO as Eclipse clients connect to it. Whichever environment is used to start the RDO daemon will be inherited for all servers and hence all build and debug sessions.

Starting the Daemon

⚠️ **Important:** Before starting the daemon you must have the following on your UNIX machine:

- a version of Perl
- a version of Java
- the `as` (assembler) and `ld` (linking) programs on the path, as specified by the PATH environment variable

To start the daemon on the default port (4075) as a background process, perform this command with superuser authority:

```
$COBDIR/remotedev/startrdodaemon
```

The daemon will now listen for any Eclipse client processes connecting to that machine on port 4075. If you want to use another port, then specify another port number on the `startrdodaemon` command.

The daemon can also be configured to instantiate the servers on a specified port or range of ports. This is particularly relevant when you want to only open certain ports through a firewall. To do this, perform this command with superuser authority:

```
$COBDIR/remotedev/startrdodaemon [<port> | <low port>-<high port>]
```

where:

- *<port>* is the port number the daemon should use to listen for connections from Eclipse on the client machine. If no value is given, it will be assigned a default value of 4075. This value matches the value assigned within the Eclipse installation.

  For example,

  ```
  $COBDIR/remotedev/startrdodaemon 4999
  ```

  This command will start a daemon listening on port 4999 and will use random server ports.
- *<low port>-<high port>* is the range of ports on which the servers (launched by the daemon) should use to communicate with Eclipse on the client machine.

  For example,

  ```
  $COBDIR/remotedev/startrdodaemon 4080 4090-4999
  ```

  This command will start a daemon listening on port 4080 and server ports will be in the range 4090 to 4999.

Stopping the Daemon

To stop the daemon, type the following command (with superuser authority):

```
$COBDIR/remotedev/stoprdodaemon <port>
```

Configuring the Environment

You may need to configure some aspects of the environment before you start the daemon. This is because when a build or debug session is initiated on the Development Hubfrom one of the Eclipse clients, the environment used will be inherited from whatever was used to start the daemon. A typical example of the kind of environment that might need to be set up would include database locations and settings for SQL access at build/run time.

Repairing

If a file in the installation of the product becomes corrupt, or is missing, we recommend to reinstall the product.

Uninstalling

✎ **Note:** Before you uninstall the product, ensure that the Enterprise Server Regions and the Micro Focus Directory Service (MFDS) are stopped.

To uninstall this product:

1. Execute as root the Uninstall_VisualCOBOL21.sh script in the `$COBDIR/bin` directory.

✎ **Note:** The installer creates separate installations for the product and for Micro Focus License Manager. Uninstalling the product does not automatically uninstall the Micro Focus License Manager or the prerequisite software. To completely remove the product you must uninstall the Micro Focus License Manager as well.

To uninstall Micro Focus License Manager:

1. Execute as root the `UnInstallMFLicenseServer.sh` script in the `/var/microfocuslicensing/bin` directory.

The script does not remove some of the files as they contain certain system settings or licenses.

You can optionally remove the prerequisite software. For instructions, check the documentation of the respective software vendor.

Licensing Information

> **Note:**
>
> - This release uses the license keys for the Visual COBOL SOA R4 release.
> - This release requires the latest version of SafeNet licensing software. See *Software Requirements* in this document for more details.
> - If you are unsure about what your licensing policy is or what sort of license you require, consult your System Administrator or Micro Focus SupportLine to obtain a valid license.

UNIX The Micro Focus Licensing System is installed into the `/var/microfocuslicensing` directory.

To license your software:

1. Run the Micro Focus Licensing Administration utility:

   ```
   sh /var/microfocuslicensing/bin/cesadmintool.sh
   ```

   > **Note:**
   >
   > - You need permissions to write to the license file which normally means you need to log in as root.
   > - Make sure Java is on the PATH before you run the utility. See *System Requirements* for more information.

2. Select an option as appropriate and press **Enter**:

   If you have access to the Internet:

   Select **Online Authorization**. You will be prompted to enter the Authorization Code supplied with your delivery notice.

   If you do not have access to the Internet:

   You need the license strings. In order to obtain them, you need your Authorization Code, your Machine Id and a machine with access to the Internet.

   a. Choose **Get Machine Id** and press **Enter**.
   b. Make a note of the information which is displayed.
   c. On the machine which is connected to the Internet, open *http://supportline.microfocus.com/activation/* in a browser.
   d. Follow the instructions to obtain the license strings and save them to a text file.
   e. Copy the text file to the first machine on which you are installing the product.
   f. At the command line, select **Manual License Installation** from the licensing options and enter the full name of the file containing the license strings.

Known Issues

Please, refer to the *Known Errors and Restrictions* topic in the *Product Information* section of your product Help.

In addition, please note the following:

COBOL Watchpoints The debugger ignores a COBOL watchpoint that is hit if there is no statement following the statement that modifies the data on which that watchpoint is set.

Documentation The installation instructions in the documentation for Enterprise Server for UNIX include incorrect filenames of the Web installer and setup files, `webinstaller_entdev_server_2.1_platform` and `setup_entdev_server_2.1_platform`. The file names should be `webinstaller_entdev_server_2.1_update1_platform` and `setup_entdev_server_2.1_update1_platform`, respectively.

ICETOOL Emulation ICETOOL emulation for managed code is not available in this release.

Updates and SupportLine

Our Web site gives up-to-date details of contact numbers and addresses.

Further Information and Product Support

Additional technical information or advice is available from several sources.

The product support pages contain a considerable amount of additional information, such as:

- The WebSync service, where you can download fixes and documentation updates.
- The Knowledge Base, a large collection of product tips and workarounds.
- Examples and Utilities, including demos and additional product documentation.

To connect, enter *http://www.microfocus.com* in your browser to go to the Micro Focus home page.

Note: Some information may be available only to customers who have maintenance agreements.

If you obtained this product directly from Micro Focus, contact us as described on the Micro Focus Web site, *www.microfocus.com*. If you obtained the product from another source, such as an authorized distributor, contact them for help first. If they are unable to help, contact us.

Information We Need

However you contact us, please try to include the information below, if you have it. The more information you can give, the better Micro Focus SupportLine can help you. But if you don't know all the answers, or you think some are irrelevant to your problem, please give whatever information you have.

- The name and version number of all products that you think might be causing a problem.
- Your computer make and model.
- Your operating system version number and details of any networking software you are using.
- The amount of memory in your computer.
- The relevant page reference or section in the documentation.
- Your serial number. To find out these numbers, look in the subject line and body of your Electronic Product Delivery Notice email that you received from Micro Focus.

Alternatively, you might be asked to provide a log file created by the Consolidated Tracing Facility (CTF) - a tracing infrastructure that enables you to quickly and easily produce diagnostic information detailing the operation of a number of Micro Focus software components.

On UNIX, you can use the Micro Focus UNIX Support Scan Utility, `mfsupport`, to create a log file that contains the details about your environment, product, and settings. The `mfsupport` script is stored in `$COBDIR/bin`.

To run `mfsupport`:

1. Start a UNIX shell.
2. Set COBDIR to the product with issues.
3. Execute `mfsupport` from a directory where you have write permissions.

   This creates a log file, `mfpoll.txt`, in that directory.
4. When the script finishes, send the `mfpoll.txt` file to your Micro Focus SupportLine representative.

> **Note:**
>
> If COBDIR is set to a location that does not contain `etc/cobver`, the script outputs the contents of `/opt/microfocus/logs/MicroFocusProductRegistry.dat` which keeps a list of the installed Micro Focus products.

Creating Debug Files

If you encounter an error when compiling a program that requires you to contact Micro Focus technical support, your support representative might request that you provide additional debug files (as well as source and data files) to help us determine the cause of the problem. If so, they will advise you how to create them.

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