Micro Focus Visual COBOL SOA 2.1 for Eclipse

Release Notes

2012-09-27

Contents

Micro Focus Visual COBOL SOA for Eclipse 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 SOA includes support for deploying native COBOL applications as Web services or for accessing those from J2EE applications under Enterprise Server.

Project templates also enable deployment of Mainframe Subsystem applications to Enterprise Server, these templates will not work without mainframe subsystem license and should not be used under a Visual COBOL SOA license.

Installing the Product

Installing Visual COBOL SOA on Windows

System Requirements for Visual COBOL SOA for Eclipse (Windows)

Hardware Requirements

The disk space requirements are:

- Approximately 42MB for the Sentinel RMS license server.
- At least 680MB for Visual COBOL SOA.

    Note: This includes the space needed to cache information locally so that you can modify the installation without the original source media.

Operating Systems Supported

Note: You can produce 64-bit and 32-bit applications on 64-bit operating systems.

The supported platforms are:

- Windows 7 32/64-bit
- Windows 8 32/64-bit
- Windows Server 2008 SP2 32/64-bit
- Windows Server 2008 R2 32/64-bit

Software Requirements

Note: If you use the Micro Focus Web Installer to install this product, it checks your system and installs the missing prerequisite software.

- If you use XML Extensions, it has the same requirements as RM/COBOL version 12 for 32-bit Windows. (See the *RM/COBOL User's Guide, Second Edition* or later.) Additionally, XML Extensions may be used in conjunction with Terminal Server.

    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. On Windows, you can check the version of your license server by clicking **Help > About** in the Micro Focus Licensing System Administration tool.

    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*.

Installing Visual COBOL SOA for Eclipse (Windows)

Installation Restrictions and Requirements

Before starting the installation, you should consider the following:

- Visual COBOL SOA and COBOL Server SOA cannot co-exist on the same machine.
- Visual COBOL and Enterprise Developer cannot co-exist on the same machine.

Downloading the Product

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

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

Installing

To use the Web Installer:

1. Double-click the `EnterpriseDeveloperEclipse21_webinstaller.exe` file.
2. Click **Start** in the Installer window and follow the instructions to install the prerequisite software and the product.

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

1. Run the `EnterpriseDeveloperEclipse21.exe` file and follow the wizard instructions to complete the installation.

A full version of Eclipse, with the Micro Focus plugins already installed, will be present in the `C:\Users\Public\Micro Focus\`*`Product Name`*`\eclipse` directory. On older versions of Windows, Eclipse might be installed in a different folder, such as for Windows XP, in *`install_dir`*`\eclipse`.

> ✎ **Note:**
>
> - If you are installing onto a machine that has an existing Micro Focus product that uses an older Sentinel RMS License Manager, you might be prompted to remove it and install the Micro Focus License Manager. By doing this you maintain the existing Sentinel RMS license files while adding the Micro Focus License Manager. If you are unsure about existing licenses on your computer or removing the Sentinel RMS License Manager, consult your System Administrator. If you want to proceed, remove Sentinel RMS License Manager by using Windows **Add or Remove Programs** and rerun the installation file.
> - Trial licenses cannot be used with remote desktop services. If you want to use your product in this way, please contact Micro Focus SupportLine to obtain a relevant license.
> - We recommend that you install any updates for the .NET Framework that are available at the *Microsoft Download* site.
> - If you install JDK you might be prompted to install the latest update. The latest update is not required for use with Visual COBOL SOA but you can install it if you wish.

Installing Into Different Eclipse Packages

Micro Focus Visual COBOL SOA uses Eclipse 3.7. If you have an existing Eclipse 3.7 installation, no further action is necessary, but if you want to use Visual COBOL SOA in other Eclipse packages based on version 3.6, you must also install the Visual COBOL SOA update site, and the RSE and AspectJ plugins. Follow the procedure below to do this.

> ⚠ **Important:** We recommend you back up all existing Eclipse configuration files first.

1. Install Visual COBOL SOA as directed above.

2. Copy the required Visual COBOL SOA resources to your existing Eclipse as follows:

1. Extract the contents of the following `.zip` files in `%ProgramFiles%\Micro Focus\Enterprise Developer\eclipse\installer` to a temporary folder:

   - `ajdt_2.1.3_for_eclipse_3.7.zip`
   - `RSE-runtime-3.3.zip`

2. Copy the extracted folders to `<your existing Eclipse>\eclipse\dropins`.
3. Copy `%ProgramFiles%\Micro Focus\Enterprise Developer` to `<your existing Eclipse>\eclipse\dropins`.
4. Rename each of the folders:

   - From `ajdt_2.1.3_for_eclipse_3.7` to `AJDTUpdateSite`
   - From `RSE-runtime-3.3` to `RSEUpdateSite`
   - From to `COBOLUpdateSite`

5. Move the the contents of the `<your existing Eclipse>\eclipse\dropins\RSEUpdateSite\eclipse` folder up a level (that is, to `<your existing Eclipse>\eclipse\dropins\RSEUpdateSite`) and delete the empty folder.
6. Copy the `eclipse.ini` file in `%ProgramFiles%\Micro Focus\Enterprise Developer\eclipse\installer` to `<your existing Eclipse>\eclipse`, overwriting the existing file.

3. Restart Eclipse.

After Installing

If you have used Eclipse from the same workspace before, the Eclipse perspective settings are not reset after installating any Micro Focus product. To pick up any new features, you must reset the COBOL perspective after installation:

1. Make sure you are in the COBOL perspective by clicking **Window > Open Perspective > COBOL**.
2. Click **Window > Reset Perspective**.
3. Click **OK**.
4. Reapply any customizations.

Installing X Windows on Windows

Some features of Visual COBOL SOA for Eclipse on Windows require an X Windows installation, hence Micro Focus ViewNowX is provided with the product. To install, run the file `ViewNow_X_Server.exe` in your Visual COBOL SOA installation. By default this will be in the `%ProgramFiles%\Micro Focus\Enterprise Developer\ViewNowX` folder.

ViewNowX requires that your client machine has Microsoft Visual C++ 2008 SP1 Redistributable Package (x86) installed. If it is missing from your machine, the ViewNowX installation will offer a link to download the package.

Repairing

If any product files, registry settings or shortcuts are accidentally removed at any point, you can perform a Repair on the installation to replace them.

To repair your installation on versions of Windows Vista or later:

1. From the **Control Panel**, click **Uninstall a program** under **Programs**.
2. Right-click your Micro Focus product and select **Repair**.

Installing Mainframe Access Server

Introduction

The installation process for Mainframe Access Server uses a single FTP operation to transfer all of the mainframe software into a partitioned data set that you pre-allocate. When this transfer is complete, the remaining installation activities are all done on the mainframe. You customize and submit the pre-built FRESTORE job to restore the product data sets from the uploaded files and then continue with customization steps to create an operational Mainframe Access Server.

Requirements

- IBM TCP/IP 4.0, or Interlink TCP/IP 3.1 or higher
- two APPLIDs, two TCP/IP ports
- APF security authorization support personnel availability
- Access to a network share with acceptable space for source and data, as well as the ability to access the IP address and ports used to access MFA
- The following installation-specific variable information:

Variable	Description
drive	
userid	TSO user-ID for FTP to your mainframe
pswd	TSO password for the FTP user-ID
your.mainframe.name	TCP/IP host name or IP address of your mainframe
prodhlq	A NEW high level qualifier that will be assigned for all Host Connectivity data sets when the new Mainframe Access product is installed. These are NOT existing product data sets, but rather brand new files that you will be creating for this base version.

> ⚠ **Important:** The installation of a new version creates new product run-time data sets before the upgrade is applied. Any existing Host Connectivity 3.01 libraries remain intact, and can be used for fallback. If you prefer to retain your former production library names and re-use your existing prodhlq then rename your old libraries beforehand.
>
> Make a note of the maintenance level of your current Mainframe Access Server. Messages MFM0001I and MFM0014I on the syslog and XDBOUT sysout data set show the maintenance level at startup. You may need to know what level you are upgrading from when you complete post-installation customizations for this upgrade.

Install Mainframe Access Server

In the instructions that follow, the information that you must provide is shown as one of the variable names from the table of information in the previous section. For example, if your high-level qualifier (*prodhlq*) value is MY.MFA, then substitute MY.MFA for *prodhlq*.

Follow these steps to load Mainframe Access Server:

1. Download the installation file from the link in your Electronic Product Delivery email and extract its contents to a directory on the PC.
2. On the mainframe, allocate a new partitioned data set named *prodhlq*.UPLOAD to receive the uploaded files. Use the following data set characteristics for this upload library:

```
DSORG=PO                       <=== PDS (partitioned data set)
RECFM=FB                       <=== record format fixed and blocked
LRECL=80                       <=== 80 character record size
```

```
BLKSIZE=3120                    <=== 3120 character block size
SPACE=(3120,(3500,500,50)) <=== allocate blocks (BLKS) size 3120
                                 3500 primary blocks
                                 500 secondary blocks
                                 50 directory blocks
```

3. On the PC, issue the following FTP commands. The actual text of the FTP prompts and responses that you see may differ slightly from those shown in this example.

   a. Start FTP:

   ```
   C:\>ftpyour.mainframe.name
   Connected to your.mainframe.name.
   220-FTPD1 IBM FTP CS/390 VxRy at YOUR.MAINFRAME.NAME, hh:mm:ss
   220 Connection will close if idle for more than 5 minutes.
   User (your.mainframe.name:(none)): userid
   331 Send password please.
   Password: pswd
   230 userid is logged on. Working directory is "userid.".
   ```

   b. Change the working directory on the mainframe to be the upload library that you allocated:

   ```
   ftp> cd 'prodhlq.UPLOAD'
   250 The working directory "hlq.UPLOAD" is a partitioned data set.
   ```

   c. Set file transfer type to binary:

   ```
   ftp> binary
   200 Representation type is Image
   ```

   d. Set FTP prompting off to transfer all files without interruption:

   ```
   ftp> prompt
   Interactive mode Off.
   ```

   e. Transfer all files from the extracted \Upload directory to members in the *prodhlq*.UPLOAD library:

   ```
   ftp> mputdrive:\upload\f*
   200 Port request OK.
   125 Storing data set prodhlq.UPLOAD(Fxxxxxxx)
   250 Transfer completed successfully.
   ftp: xxxx bytes sent in x.xx seconds (xxx.xx Kbytes/sec)
   .
   .
   .
   ```

   f. When mput has transferred all files the ftp> prompt appears. End the FTP connection:

   ```
   ftp> quit
   221 Quit command received. Goodbye.
   ```

   g. On the mainframe, verify that all files transferred successfully and that for each Fxxxxxxx file in the \Upload directory there is a corresponding member in the *prodhlq*.UPLOAD data set. There should be 10 members, F1 through to F9 and FRESTORE.

4. On the mainframe, edit member FRESTORE in the upload library, *prodhlq*.UPLOAD. Follow the instructions in that member to customize the JCL and then submit that job to restore the product libraries from the uploaded files and populate your new product runtime libraries.

5. Start Mainframe Access Server.

After installation

Since the program libraries can change between versions, it is necessary to either create new procedures, or back up the old procedures, and at least modify the DSNQUAL=*prodhlq* within your MFA sample started task procedures as provided by Micro Focus. The *prodhlq*.LOADLIB and *prodhlq*.SASC.LINKLIB must both be authorized.

Verify successful maintenance application by checking the Mainframe Access Server startup message:

```
MFM0001I: Mainframe Access V4.00 (BASE ) is active
```

The "(BASE)" indicates the product maintenance level. Also check for "V4.00" in the Mainframe Access Data Connect server startup message:

```
MFA303I MFA/DATACONNECT V4.00 - BASE COPYRIGHT (C) 1987-2012 MICRO FOCUS...
```

When you are satisfied with the new version installation you may delete the UPLOAD data set from your system.

New parameters and members in the CNTL samples data set

The following updated members are found in the CNTL data set.

MFA	sample MFA started task
MFAS	*new* sample MFAS started task for Data Connect
MFAAS	sample MFAAS application server started task
MFAVTAM	sample MFA VTAM definitions
PARMS	sample PARMS for MFA started task
PARMSAS	sample PARMSAS for MFAAS started task
SERVERS	sample SERVERS configuration for MFA
UPQUICK	configuration notes

If you are migrating from Host Connectivity 3.01 WebSync 10 or earlier, you may want to retain your existing CNTL members from your current version as an installation test. You can simply copy the existing MFA started task JCL and change the STEPLIB to reference the new product libraries. You will however be required to modify the MFAS started task JCL since the module names for Data Connect have been changed to allow co-residence within the same authorized library as MFA.

Review the Change Log in each of the new members. Read the documentation for any new parameters in the Readme and in the updated Mainframe Access Administrator's Guide. Add these new parameters and other changes to your working copies. If necessary, customize the new parameters for your installation.

Once you are satisfied with the operation of Mainframe Access, you can consolidate the configuration settings into the new high-level qualified CNTL members.

Uninstalling

Windows

To uninstall the product, you cannot simply delete its files from your hard disk. To uninstall the product:

1. Log in with the same user-ID as you used when you installed the product.
2. Click **Uninstall a program** under **Programs** in **Control Panel**.
3. On versions of Windows Vista and later, click **View installed updates** in the left-hand pane.
4. Select the product and click **Remove** or **Uninstall**, respectively.

When you uninstall, the only files deleted are those that the installation software installed. If the product directory has not been removed, delete any unwanted files and subdirectories within it using Windows Explorer.

> **Note:** The installer creates separate installations for Micro Focus Visual COBOL SOA and Micro Focus License Manager. Uninstalling only Visual COBOL SOA does not automatically uninstall the Micro Focus Licensing Manager or any of the prerequisite software.
>
> To completely remove the product you must uninstall the Micro Focus Licensing Manager as well.
>
> You can optionally remove the prerequisite software. For instructions, check the documentation of the respective software vendor.

UNIX

> **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_EnterpriseDeveloper21.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 Licensing Manager or the prerequisite software. To completely remove the product you must uninstall the Micro Focus Licensing 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 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.

Windows Use the Authorization Code, supplied with your delivery notice, to license your product. To do this:

1. Click **Start** > **All Programs** > **Micro Focus License Manager** > **License Management System**.

   The dialog box for the Micro Focus License System Administration Tool will be displayed.
2. Click the **Authorize** tab.
3. Enter your Authorization Code and click **Authorize**.
4. Close the Micro Focus License System Administration Tool.

If you wish to install the license silently, execute the following after the product has been installed:

```
start /wait <install-dir>\bin\cesadmintool -term activate
AuthorizationCode
```

License for the Integrated Development Environment for Eclipse

Your product is supplied with an evaluation license that typically enables you to use your product for 30 days. While you are using the evaluation license, a dialog will display when you start your product prompting you to enter the Authorization Code. This code can be found in the **Requested License Key** email that is supplied when you order your product. Depending on your product order, you might have multiple license Authorization Codes. To obtain a full license for Visual COBOL SOA, enter the code that is printed under **Visual COBOL SOA - Visual COBOL SOA for Eclipse**.

> **Note:** If you have purchased a Visual COBOL SOA timed license, the license management system may show these as Trial licenses. This does not affect the license you have purchased.

> **Note:** An XSERV964 license key is supplied for ViewNow X Server.

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.
ICETOOL Emulation	ICETOOL emulation for managed code is not available in this release.
Enterprise Server	On versions of Windows Vista and later, Enterprise Server listens only on the IPv4 loopback address (127.0.0.1). As a result, an attempt to connect to localhost with a TN3270 emulator such as RUMBA may fail. To work around this issue, in your emulator's configuration use 127.0.0.1 in preference to localhost or your host machine's name.
Wait for Attachment Debugging	There is an issue with "Wait for attachment" when you use Visual COBOL SOA for Eclipse to debug applications that run on some Linux/Unix platforms. Eclipse connects to the debugger on the remote machine, but might not attach to the process to debug the code.

To work around this issue, ensure that on the remote machine the TMPDIR environment variable is unset or has the same value for both Visual COBOL Development Hub SOA server and for the running process you wish to debug. The Visual COBOL Development Hub SOA server is the server which you started either directly with the $COBDIR/remotedev/startrdoserver script or indirectly using the daemon which is started with the $COBDIR/remotedev/startrdodaemon script.

To check the variable used by the Visual COBOL Development Hub SOA server:

1. Open Remote Systems view in Eclipse on the Windows machine.
2. Right-click the **Shells** element of the server connection to be tested and click **Launch Shell**.
3. In the **Remote Shell** view, type `echo $TMPDIR` in the **Command** field, and press **Enter**.

The value of the TMPDIR environment variable is shown - ensure it is the same as the one used by the process to be debugged.

Note: The value of TMPDIR used by the Development Hub server cannot be changed in the remote shell and must be set before you start the daemon or server.

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.

On Windows, if you are reporting a protection violation you might be asked to provide a dump (`.dmp`) file. To produce a dump file you use the **Unexpected Error** dialog box that is displayed when a protection violation occurs. Unless requested by Micro Focus SupportLine, leave the dump setting as `Normal` (recommended), click **Dump**, then specify a location and name for the dump file. Once the dump file has been written you can email it to Micro Focus SupportLine.

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.

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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