

Micro Focus COBOL Server 2.1 Update 1 SOA



Micro Focus The Lawn 22-30 Old Bath Road Newbury, Berkshire RG14 1QN UK http://www.microfocus.com

Copyright [©] Micro Focus 2009-2013. All rights reserved.

MICRO FOCUS, the Micro Focus logo and Visual COBOL are trademarks or registered trademarks of Micro Focus IP Development Limited or its subsidiaries or affiliated companies in the United States, United Kingdom and other countries.

All other marks are the property of their respective owners.

2013-03-22

Contents

Micro Focus COBOL Server SOA Release Notes	4
Installation	5
Installing on Windows	5
System Requirements for COBOL Server SOA for Windows	5
Installing COBOL Server SOA for Windows	6
Installing on UNIX	8
System Requirements for COBOL Server SOA for UNIX	8
Installing COBOL Server SOA for UNIX	10
Licensing Information	13
Known Issues	15
Resolved Issues	
Updates and SupportLine	21
Further Information and Product Support	21
Information We Need	21
Creating Debug Files	22
Disclaimer	23

Micro Focus COBOL Server 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.

Micro Focus COBOL Server SOA enables you to deploy COBOL applications created with Visual COBOL SOA to Windows and UNIX environments. Includes a J2EE Connector and enables you to leverage the applications in a J2EE-compliant manner from a Java application server such as IBM WebSphere[®], BEA WebLogic[®], Oracle Application Server, and JBoss.

Installation

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

Installing on Windows

System Requirements for COBOL Server SOA for Windows

Hardware Requirements

The disk space requirements are:

- 42MB for the Sentinel RMS license server.
- About 170MB for COBOL Server 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

The following platforms are supported:

- Windows 7 32/64-bit
- Windows 8 32/64-bit
- Windows Server 2008 SP2 32/64-bit
- Windows Server 2008 R2 32/64-bit
- Windows Server 2012 32/64 bit

🥖 Note:

• COBOL Server SOA 2012 is not supported on versions of Windows earlier than Windows 7.

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.

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

- A version of the Microsoft .NET Framework that is targeted by your applications:
 - Microsoft .NET Framework 2 if your applications use the ILCLR(2) Compiler Directive or if they target the .NET Framework versions 2, 3 or 3.5. You might need to download these installers depending on the .NET Framework you are targeting.

To download the Microsoft .NET Framework 2 *click here*.

Microsoft .NET Framework 2 or later is also required for the Micro Focus License Manager.

 Microsoft .NET Framework 4 is required if your applications use the ILCLR(4) Compiler Directive or if they target the .NET Framework 4.

To download the Microsoft .NET Framework 4 *click here*.



- If you do not target a specific version of the Microsoft .NET Framework, Micro Focus recommends that you install version 4.
- .NET Framework 3 is provided with Windows Vista, Windows Server 2008.
- .NET Framework 3.5 is provided with Windows 7, Windows Server 2008 R2
- Microsoft's Visual C++ 2010 Redistributable Package:
 - To download Microsoft's Visual C++ 2010 Redistributable Package (x86) click here.
 - To download Microsoft's Visual C++ 2010 Redistributable Package (x64) click here.

Note: If, when you install COBOL Server SOA, the machine does not have Microsoft Visual C++ 2010 Redistributable Runtime already installed, it will be installed as required by COBOL Server SOA. The installation of Microsoft Visual C++ 2008 Redistributable Runtime will add a number of .dll files, without digital signatures, into the winsxs directory.

- Microsoft's Web Platform Installer 2.0 if your application targets ASP.NET 4. This installs and sets up ASP.NET. To download the installer *click here*.
- The Java Development Kit (JDK), version 1.6 (u27 or later) or version 1.7 (u05 or later), is required for compiling Java. The JDK is downloadable from *www.oracle.com*. After installing the JDK, you must put the tools.jar file for the JDK on your classpath, using a command similar to:

set classpath=jdk-install-directory\lib\tools.jar

• A Web browser, such as Microsoft Internet Explorer 6.0 or Netscape Navigator 6.1, is required for Enterprise Server Administration in COBOL Server SOA.

To use your Web browser offline, you need the dial-up networking feature of Windows installed. Otherwise you might have TCP/IP errors such as being unable find "localhost" or the numeric equivalent (127.0.0.1).

- To use Enterprise Server Administration, scripting or JavaScript support must be enabled in your browser. This is on by default in Internet Explorer in most Windows operating systems. Also, active content must be allowed and not blocked. To enable both these in Internet Explorer:
 - 1. Click Tools > Internet Options.
 - 2. On the Security tab, click Custom Level. In the Scripting section, under Active Scripting, click Enable.
 - 3. On the Advanced tab, scroll down the list to the Security section, and ensure the item Allow active content to run in files on My Computer is checked.
- Enterprise Server Help requires the Java Runtime Environment on some Windows systems to enable the Search facility to work.

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. 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*.

Installing COBOL Server SOA for Windows

Installation Restrictions and Requirements

Before starting the installation, you should consider the following:

- Visual COBOL SOA and COBOL Server SOA cannot coexist on the same machine.
- If you are installing this as an upgrade, make sure that none of the product files are in use when you start the installation.
- You need to be logged in with a user-ID that has write access to the registry structure under HKEY_LOCAL_MACHINE, HKEY_CLASSES_ROOT, and HKEY_CURRENT_USER so the installation software can set the environment appropriately. You also need to be logged on with Administrator privileges.
- Before installing this product, make sure that any existing Micro Focus Directory Server (MFDS) or CCITCP2 Windows serviceprocess from an existing product is stopped and uninstalled. Do this as follows:
 - 1. Stop the service, using either the Windows Service Management Console GUI or from a command line prompt by typing: net stop mf_ccitcp2 Only one instance of the MFDS or CCITCP2 service can run on a Windows machine.
 - 2. Uninstall the MFDS or CCITCP2 service.

For MFDS, from a command line prompt enter: ${\tt mfds}$ $-{\tt u}$

For CCITCP2: ccitcp2 -u

To run an earlier version of MFDS as a service after you have installed a later version:

- 1. Stop and uninstall the MFDS service, as described above.
- 2. Reinstall the earlier version, as follows:
 - a. Open a Visual COBOL SOA command prompt.
 - **b.** Install the service. Enter the following command: mfds -i
 - c. Start the service. Enter the following command: net start mf_ccitcp2

Note: The two versions use different paths for environment and registry values, so the list of configured Enterprise Servers might be different depending on which version has been started, since, by default, different MFDS data repositories are used.

MFDS 5.1 and later are able to import or use Enterprise Server configuration data generated by earlier versions of MFDS, but 5.0 or earlier versions of MFDS might not be able to read data generated by later versions.

It is possible to run MFDS from a command prompt ("mfds") rather than as a service, but by default the "mfcobol" port is used (86) and this can only be used by one process at a time

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

To use the Web Installer:

- 1. Double-click the cobolserver_soa_21_update1_2010_webinstaller.exe file.
- 2. Click **Start** in the Web Installer dialog and follow the instructions to install the prerequisite software and the product.

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

1. Run the cobolserver_soa_21_update1_2010.exe file and follow the wizard instructions to complete the installation.

🤌 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.

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.

Uninstalling

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. Click View installed updates in the left-hand pane.
- 4. Select the product and click Remove or Uninstall as appropriate.

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.

Important: The installer creates separate installations for Micro Focus COBOL Server SOA and Micro Focus License Manager. Uninstalling only COBOL Server SOA does not automatically uninstall the Micro Focus License Manager or any of the prerequisite software.

To completely remove the product you must uninstall the Micro Focus License Manager as well.

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

Installing on UNIX

System Requirements for COBOL Server SOA for UNIX

Hardware Requirements

The disk space requirements are:

- Between 26MB and 54MB for the Sentinel RMS license server depending on the platform.
- Between 146MB and 350MB for COBOL Server SOA.

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 openIdap-2.4.23-15.el6.i686.rpm nss-pam-Idapd-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.



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



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. 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 LANG environment variable to pick up localized messages. The LANG settings are English and Japanese only.
- The Java Development Kit (JDK) is required for compiling Java. The JDK is downloadable from *www.oracle.com*. After installing the JDK, you must put the tools.jar file for the JDK on your classpath, using a command similar to:

set classpath=jdk-install-directory\lib\tools.jar

• JavaScript or scripting support must be enabled in your browser, so that Enterprise Server Administration is usable. Also, active content must be allowed and not blocked.

Installing COBOL Server SOA for UNIX

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

To use the Web Installer:

1. Give the Web installer file execute permissions once it downloaded:

```
chmod +x webinstaller_visualcobol_soa_server_2.1_update1_platform
```

2. Run the installer with superuser permissions:

./webinstaller_visualcobol_soa_server_2.1_update1_platform

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

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

1. Give execute permissions to the setup file:

chmod +x setup_visualcobol_server_soa_2.1_update1_platform

2. Run the installer with superuser permissions:

./setup_visualcobol_server_soa_2.1_update1_platform

If you don't run this as superuser, you are prompted to enter the superuser password during the install.

If you set COBDIR to an already installed product, the installer will back up the existing installation and will install this release in the location COBDIR points to. If COBDIR is not set, the installer does a fresh install.

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_visualcobol_soa_server_2.1_update1_platform -
installlocation="full path of new location"
```

or

```
./setup_visualcobol_server_soa_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_visualcobol_server_soa_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.

After Installing

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 cobsetent 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.

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.

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:

- 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
```

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



- 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.
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.

• The **Refresh** button at the bottom of the ESMAC pages does not work.

Resolved Issues

The resolved issues that customers have reported are listed in this section. The numbers that follow each issue are the Reported Problem Incident number followed by the Customer Incident Numbers (in parentheses). RPIs that have numbers only (and no text) are included to confirm that the RPIs have been fixed, since no further information is required.

- .NET Compiler
- .NET ESQL Support
- .NET RTS
- CAS (COBOL App Server) General
- CAS XA Switch modules
- Compiler
- Data Tools Converter
- Data Tools Vrecgen (Character)
- Documentation
- File Handling External File Handler
- File Handling Sort / JCL Sort
- JVM Debugger
- MF Directory Server
- MVS REXX Emulation
- NCG
- Setup Issues (UNIX)
- SQL: Cobsql
- SQL: OpenESQL
- XML syntax support runtime

.NET Compiler

Back to List

 A COMPUTE statement where the target field had fewer significant digits than some of the operands of the arithmetic expression no longer results in invalid arithmetic.

1087987 (2614566)

.NET ESQL Support

Back to List

 SQLWARN4 flag was not being set when more than one row was returned for a singleton SELECT statement. The OpenESQL run-time now correctly sets SQLWARN flags when a singleton SELECT statement returns multiple rows. - 1085945

1085945 (2593798)

• The OpenESQL pre-compiler sometimes flagged object host variables as invalid when multiple programs were compiled into a single .exe or a .dll file.

1086906 (2603712)

.NET RTS

Back to List

• A performance issue with raising an expression to a fractional power has been fixed. 1086614 (2594740)

CAS (COBOL App Server) General

Back to List

- HSF includes the following enhancements:
 - A new record type (JCLF) for JCL files.
 - A Job class has been added to the JCL JOBSTART records.
 - A condition code has been added to the JCL STEP records.

- Statistics for up to 5 Transient Data Queues per CICS record has been added (same as for exisiting TSQ stats). The HSF files will now be created with the following header:

#HSFVer=02 Type,PID,Task,Date,Time,Tran/Job,User/DDName/CC,LU/Step,Prog/DSName,Latent/ ReadCount,Resp/WriteCount,API/RewriteCount,SQL/

DeleteCount,IMS,DSType,DSAccessType,File1,Count1,Time1,File2,Count2,Time2,File3,Count3,Time3,File4,Count4,Time4,File5,Count5,Time5,TS1,Count1,Time1,TS2,Count2,Time2,TS3,Count3,Time3,TS4,Count4,Time4,TS5,Count5,Time5,TD1,Count1,Time1,TD2,Count2,Time2,TD3,Count3,Time3,TD4,Count4,Time4,TD5,Count5,Time5

1082755 (2552658)

Logging has been added for the resource managers to facilitate recovery from failures that leave the
resource managers such as DB2 and MQ with in-doubt transactions. You only need to log if the
resource manager switch modules are configured to respond to xa_recover() calls. Logging may affect
the performance so you can disable it as follows - edit the server from the Enterprise Server
Administration, click the General tab and type the following in the Configuration Information text box:
[ES-Environment] ES_XA_LOG_SUPPRESS=Y

1085539 (2582570)

CAS XA Switch modules

Back to List

• The SQL Server XA switch module was updated to resolve some issues with verifying the success or a failure of ODBC API calls which could lead to failures during the commit or rollback operations.

1087383 (2608663)

• The ODBC one-phase commit switch module has been updated so that when you use it within an online environment (such as CICS or Web Services), and then you perform a COMMIT, any cursors that are not defined as WITH HOLD are closed. When you use the module within JES-enabled transactions that use IKJEFT01, all cursors are closed as before.

1087536 (2610091)

Compiler

Back to List

• Specify an environment variable with the USE and DIRECTIVES Compiler directives (e.g. USE"\$myDirs") to locate a directives file.

1086063 (2592063)

Data Tools Converter

Back to List

• The dfconv replacement input and output filenames are no longer truncated to the filename lengths used within the profile file.

1086569 (2599741)

• DFCONV, the data file convert command line utility, is now available in Enterprise Server. 1087051 (2605033)

Data Tools Vrecgen (Character)

Back to List

The source files for the VRECGEN and VRECGEN2 utilities are now stored in the .\src folder in the
product installation.

1087209 (2603963)

Documentation

Back to List

• The SSRANGE Compiler directive is provided for emulation of the IBM mainframe compiler of the same name; because of this, its scope is limited to the syntax permissible in a mainframe dialect.

1087083 (2605408)

• To ensure no loss of functionality when accessing Vision and RM/COBOL data files, you should use the appropriate IDXFORMAT Compiler directive setting or file handling option, and not use the CALLFH(ACUFH) Compiler directive. See 'Configuring Access to Vision Files' and 'Configuring Access to RM/COBOL Data Files' for more information.

593437 ()

The documentation has been updated so that the help page more accurately reflects the ESMAC screen.

1087753 (2611733)

• All COBOL CICS programs that call user exits need to be compiled with the NOAMODE directive.

593780()

• The documentation now clarifies the EZACICM.MOD location.

1086693 (2599949)

• The documentation now includes information about the -stcpssl cassub option.

1087060 (2605136)

• The documentation has been updated to provide more information about the MFJAMS LISTCAT command.

594069()

- The documentation has been updated to remove references to ERRORLEVEL in Unix environments. 1087575 (2610423)
- The casrdtex documentation has been updated to include several more supported parameters.

594324 ()

File Handling - External File Handler

Back to List

• EXTFH configuration options specified under the FOLDER tag now work correctly with UNIX files when they are specified with an absolute path in the SELECT statement of a COBOL program.

1086089 (2594733)

RMFM record lock timeouts now work correctly on UNIX.

1087015 (2602108)

File Handling - Sort

Back to List

• A SORT RETURN statement now returns a 9/230 error for the return past EOF.

1087358 (2606867)

 SORT now terminates with return code 16 and throws a 9/013 error when the catalogued input file is not physically present.

1087529 (2607690)

• SORT now terminates with return code 16 and displays error message "SORT103E Invalid operator .JOINKEYS." when the JCL contains the JOINKEYS parameter.

1087311 (2607369)

JVM - Debugger

Back to List

 The JVM COBOL Debugger could only locate copybooks that were located in the same directory as the COBOL program.

1086348 (2597430)

MF Directory Server

Back to List

• Previously, if you used the -x command line option when exporting an Enterprise Server configuration definition from MFDS in XML format, the MFDS process would terminate.

1087968 (2609146)

MTO - CICS ESMAC

Back to List

• The default queue in ESMAC > JES > Spool is now the OUTPUT queue.

588935 ()

MVS REXX Emulation

Back to List

 Execs residing in temporary datasets allocated to SYSEXEC or SYSPROC no longer sometimes fail to load.

1086478 (2579785)

The bpxwunix() function is now supported by the REXX engine.
 1085190 (2584045)

NCG

Back to List

An error when linking on Solaris Intel 64 bit with the latest versions of Solaris 10 has been fixed.
 1086852 (2602536)

• Display statements of the type "display a(1:i*c) at 0101" could cause the generator to fail when in debug mode.

1088048 (2607368)

Setup Issues (UNIX)

Back to List

During installation, the CheckDiskSpace function no longer relies on English text strings from the UNIX df command.

1086610 (2600117)

SQL: COBSQL

Back to List

 The COBSQL preprocessor could not process options longer than 65 characters. 1085597 (2589416)

SQL: OpenESQL

Back to List

 The SQL JVM Run-Time .jar library file is now supplied as part of the Micro Focus COBOL deployment products for UNIX.

1087595 (2610662)

• The OpenESQL preprocessor sometimes generated incorrect query lengths for EXEC SQL PREPARE INTO FROM statements, resulting in the SQL queries being truncated.

1087324 (2607761)

 The ODBC pre-compiler now allows you to define host variables after the DECLARE CURSOR SQL statement if they are not defined in the PROCEDURE DIVISION.

1086501 (2599123)

• When using the SQL Server Native Client ODBC driver, the OpenESQL Run-Time System now correctly processes SQL Server data defined as VARCHAR(MAX).

1086665 (2601192)

XML syntax support runtime

Back to List

• The XML preprocessor now generates correct output for the COUNT IN clause.

1086285 (2596137)

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.

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 which does not contain etc/cobver, the script outputs the contents of /opt/microfocus/logs/MicroFocusProductRegistry.dat which keeps a list of the installedMicro 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.

Disclaimer

This software is provided "as is" without warranty of any kind. Micro Focus disclaims all warranties, either express or implied, including the warranties of merchantability and fitness for a particular purpose. In no event shall Micro Focus or its suppliers be liable for any damages whatsoever including direct, indirect, incidental, consequential, loss of business profits or special damages, even if Micro Focus or its suppliers have been advised of the possibility of such damages. Some states do not allow the exclusion or limitation of liability for consequential or incidental damages so the foregoing limitation may not apply.

Micro Focus is a registered trademark.

Copyright [©] Micro Focus 1984-2013. All rights reserved.