



Micro Focus Enterprise Test Server 4.0 Patch Update 11

[Readme](#)

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Readme for Enterprise Test Server 4.0 (4.0.00252) Patch Update 10

This readme contains information on changes in 4.0 (4.0.00252) Patch Update 10.

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Note:

- Enterprise Developer now supports AdoptOpenJDK's OpenJDK 8 with Hotspot. See [Significant Changes in Behavior or Usage](#) for more information.
- This Patch Update will not update the Help installed with the product. Instead, check the *Product Documentation* section of the [Micro Focus SupportLine Web site](#) and the [Micro Focus Infocenter](#) for any updates to the documentation which might have been uploaded.
- This product includes OpenSSL version 1.0.2n.

Installation Notes

This section contains information on installing this update.

- [Before Installing](#)
- [Installing](#)

Before Installing

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Before installing this Patch Update, you must have the following software installed:

- Enterprise Test Server 4.0.

To find out which version you have installed:

1. Click **Start Menu > Control Panel**.
2. Click **Uninstall a program** under **Programs**.
3. On the row for your Micro Focus product check the number on the **Version** column.

Installing

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To install this Patch Update on Windows:

1. See *Before Installing* for details about the prerequisites.
2. Run this Patch Update's .exe file, either by double-clicking the filename in Windows Explorer, or by entering the filename at the command line.
3. Follow the instructions displayed to complete the installation.

Known Issues and Restrictions

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

New Features

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This section lists new features added after the main release of Enterprise Test Server 4.0.

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New Features Added in this Patch Update

There are no new features in this patch update.

New Features Added in Patch Update 10

There are no new features in this patch update.

New Features Added in Patch Update 9

There are no new features in this patch update.

New Features Added in Patch Update 8

There are no new features in this patch update.

New Features Added in Patch Update 7

There are no new features in this patch update.

New Features Added in Patch Update 6

There are no new features in this patch update.

New Features Added in Patch Update 5

There are no new features in this patch update.

New Features Added in Patch Update 4

The following new features have been added in this Patch Update.

Configuring IMS Multiple Sign-on Support

Multiple sign-ons by a single user across multiple LUs are now supported. This is implemented using the following two new Enterprise Server environment variables:

New Features Added in Patch Update 3

The following new features have been added in this Patch Update. The numbers that follow each feature are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

JCL Support

The Spool Housekeeping history file, INDEXO, can now support 7-digit job numbering. A conversion utility, MFHKHCOV, is supplied to convert any existing dataset to the new format. Run this utility using the sample JCL job CONVERT.JCL. Once converted, the newly formatted dataset supports both 5- and 7-digit job numbering. If you only use 5-digit job numbering, you do not need to run the conversion. See the *'MVSSPLHK Spool Housekeeping Process'* section in the Help for more information.

3162868 (1114648)

SQL: OpenESQL

A new SQL directive [NO]ALLOWSERVERSELECT supports server-specific SELECT statements that are not recognized by OpenESQL as valid ESQL SELECT ... INTO statements. This behavior was the default in Net Express.

3165092 (1114866)

New Features Added in Patch Update 2

The following new features have been added in this Patch Update.

Enterprise Server

You can now configure certain fields within the HSF record that is written to a .csv format HSF report.

Use the ES_HSF_CFG environment variable to configure the number of Custom, CICS file, TSQ, and TDQ fields in each record.

To write custom data to the Custom fields, use the ES_WRITE_CUSTOM_HSF library routine.

See the latest Help information, available from <https://www.microfocus.com/support-and-services/documentation/>, for more information on these new features.

New Features Added in Patch Update 1

The following new features have been added in this Patch Update.

Environment Variables

The following environment variables have been introduced or updated in this Patch Update:

- MF_UCC11_DYNCLEAN=Y|N - If MF_UCC11=Y or YA (that is, if UCC11 emulation is switched on), then an additional option controls whether dynamically allocated datasets, for example via SVC99, are cleaned when a job is restarted. The default value is Y, and dynamically allocated datasets will be removed and replaced when a job is restarted. However, if MF_UCC11_DYNCLEAN=N, then they will not be cleaned.
- The environment variable PC_RENAME_LAX has a new parameter. PC_RENAME_LAX=D indicates that a new directory structure and filename will be constructed, and the existing file moved to that location when renaming MVS data sets.

- RELFORMAT - A new file handling configuration variable is available, which is supported under the [REL-DEFAULT] tag only. Use RELFORMAT=MF or RELFORMAT=RM to redirect the handling of relative files to a specific file handler (either the Micro Focus File Handler or the RM/COBOL File Handler).

Significant Changes in Behavior or Usage

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This section describes significant changes in behavior or usage. These changes could potentially affect the behavior of existing applications or impact the way the tools are used.

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Significant Changes in Behavior or Usage in This Patch Update

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [File Handling](#)
- [JCL Support](#)

File Handling

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- The supervisor password is no longer displayed when cobfsclose is executed from the command line.
3195772 (1117571)

JCL Support

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- PDS directories (PO) identified by environment values (the path to the directory starts with \$<ENV-NAME>) are now removed in the same way as those that do not use an environment value. The last member is removed and the directory is empty.
3196118 (1117345)
- If the catalog properties of a data set are updated using MVSCATPB, and the data set is not opened during the JCL step it is assigned to, then the updated catalog properties are not written at the end of step disposition processing.
3186942 (1116611)

Significant Changes in Behavior or Usage in Patch Update 10

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [Communications Server](#)
- [Enterprise Server](#)
- [Enterprise Server Auditing](#)
- [JCL Support](#)

Communications Server

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- Configuring MFCC when run under MFCS now works as expected.
(638901)

Enterprise Server

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- Deferred work elements for cancel will not be processed until the End of Task. This means that the cancel will not be processed during a user syncpoint.
3193871 (1117144)

Enterprise Server Auditing

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- Auditing on big-endian platforms now correctly interprets numeric audit data.
(637373)

JCL Support

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- Using MFFTP, a GET request that used SENDEOL no longer attempts EOL processing if the file is not found. This now emulates the behavior on the mainframe. Previously, processing would cause unexpected errors in cases where the file was not found.
3192989 (1117084)

Significant Changes in Behavior or Usage in Patch Update 9

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [JCL Support](#)
- [Micro Focus Cryptographic Library](#)

JCL Support

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- If the catalog properties of a data set are updated using MVSCATPB, and the data set is not opened during the JCL step it is assigned to, then the updated catalog properties are not written at the end of step disposition processing.
3186942 (1116611)

Micro Focus Cryptographic Library

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- Passing an incorrect keyfile passphrase no longer results in receiving an RTS115 error in MFDS.
3181743 (1116186)

Significant Changes in Behavior or Usage in Patch Update 8

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [Mainframe Access](#)
- [Micro Focus Batch Scheduler Integration](#)

Mainframe Access

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- SyncMon2 now uses the Endeavor "Source Date" and "Source Time" information to determine if a file has changed since the last synchronization.
3177475 (1115904)

Micro Focus Batch Scheduler Integration

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- When using MFBSI, the message JES000020W (JOB number warning percentage exceeded) is now correctly handled, and no longer results in an invalid MFBSIJCL 208 return-code (JCL error).
3186963 (1116620)

Significant Changes in Behavior or Usage in Patch Update 7

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [Mainframe Access](#)

Mainframe Access

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- By default, VSAM files whose average LRECL are the same as the maximum LRECL are now treated as Variable when generating a .PRO file. You can override this with the existing /FIXEDVSAM flag, or by specifying a fixed VSAM import type (ESDS-FIXED, KSDS-FIXED, or RRDS-FIXED).
3181871 (1116216)

Significant Changes in Behavior or Usage in Patch Update 6

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [Enterprise Server](#)

Enterprise Server

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- Previously, the /x option of the CASRDTEX utility had been duplicated to drive XML output. This prevented the export of transactions which was the original meaning of /x. To generate an XML export, you must now specify the option /xm.

3180233 (1116108)

- casfhsf could hang when processing HSF files containing records from tasks that ran in different months.

3177385 (1115884)

Significant Changes in Behavior or Usage in Patch Update 5

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [Enterprise Server](#)
- [Data Tools](#)
- [JCL Support](#)

Enterprise Server

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- A new environment variable, ES_SNATRC_DIR, is available for configuring the location of the SNA traces written by IBM's communication manager. To ensure that the SNA trace files are written to a valid directory, ES_SNATRC_DIR must be set before you start the region.

3173516 (1115523)

Data Tools

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- Accessing a dataset through the Data File Editor now obtains a shared lock on Enterprise Server when you open the file in shared mode.

3170479 (1115346)

JCL Support

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- The DSNRLI functionality for the TERMINATE THREAD call has been improved so that it now calls tx_end and then tx_close for a particular XA resource. A ROLLBACK call will not be issued prior to the tx_close. If an error is returned from the tx_end function, it is reported back to the calling program as return code 12, reason code 0X00F30093.

(636345)

Significant Changes in Behavior or Usage in Patch Update 4

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [Java Support](#)

- [Docker - Java Support](#)
- [JCL Support](#)

Java Support

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In addition to supporting Oracle's Java 7, 8, and 9, Enterprise Test Server now supports AdoptOpenJDK's OpenJDK 8 with Hotspot for a fully open source solution. Click [here](#) to download a copy. Select the platform you want to install on. Follow the platform-specific installation instructions on the AdoptOpenJDK Web site.

Ensure that the JAVA_HOME environment variable is set to the location of the AdoptOpenJDK installation.

Docker - Java Support

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The Dockerfiles in the supplied Docker demonstrations no longer include the files required for you to include Oracle's JDK in your Docker images. Instead, you can now choose to include either OpenJDK from AdoptOpenJDK or Oracle's JDK.

If you choose to use OpenJDK from AdoptOpenJDK the required files will be automatically downloaded. If you choose to use Oracle's JDK you need to provide the required installation files and ensure that you have the appropriate license to use it. For information on licensing Oracle's JDK see <https://www.oracle.com/java/java-se-subscription.html>.

JCL Support

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- The DSNRLI reason-code value will be hexadecimal 0x00000000 when the return-code is zero. This is a change from the previous value of decimal zero, '0000'.
3171133 (1115344)

Significant Changes in Behavior or Usage in Patch Update 3

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CICS Support

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Important: With this update, all applications that use WEB CONVERSE or WEB SEND SESSTOKEN explicitly with the AUTHENTICATE, BASICAUTH, or NONE options, and that do not use a URIMAP that specifies the AUTHENTICATE attribute, must be recompiled. (This does not affect applications that use a URIMAP that specifies the AUTHENTICATE attribute.)

3160060 (1114599)

File Handling

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- For MFJSORT, the SORT-EBCDIC instruction is now supported through the PARM parameter of an EXEC statement.

3165343 (1114824)

- RELFORMAT=MF|RM is now enabled for FOLDER and other filename tags.

3164916 (1114803)

- When reading continuation lines from SYSIN for MFJSORT, if line 1 breaks at column 71 with a nonblank in column 72, and columns 2-15 of line 2 are blank, DFSORT continues on line 2 with whatever character it finds in column 16 (blank or nonblank).

3159842 (1114565)

JCL Support

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- When restarting a job, the COND CODES for steps prior to the restart step will not be evaluated. This is a change in the behavior where previously the values of the COND CODES from the previous run were checked. You can revert to the old behavior by setting the environment variable

`MFJ_ALL_STEP_CHECK=Y.`

3163358 (1114688)

Significant Changes in Behavior or Usage in Patch Update 1

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [File Handling](#)

File Handling

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- To direct the handling of relative files to a particular file handler (either MF COBOL or RM/COBOL), use the RELFORMAT=MF or RELFORMAT=RM configuration options within the [REL-DEFAULT] tag of the EXTFFH.CFG file. (The default is RELFORMAT=MF.)

3157247 (1114149)

Resolved Issues

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- [SQL: OpenESQL](#)
- [SQL Option for DB2](#)

Assembler Support

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- A BRNZ instruction generated incorrect machine opcode. The BR (branch relative) and BR..L (branch relative long) extended mnemonics were placing the condition mask nibble in the fourth nibble of the instruction instead of the third nibble resulting in incorrect behavior at execution time.
3197056 (1117444)
- The LE/370 prolog macro CEEENTRY.MAC has been modified to support the NAB (Next Available Byte) control block. Note that fields in the control block are currently set to nulls.
3191776 (1117022)

Enterprise Server

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- DSNRLI uncommitted work detection no longer results in "ended" or "in-doubt" xa transactions in the target Resource Managers.
3192542 (1117288)
- Previously, `console.000` was always overwritten when `console.log` max size was specified.
3192214 (1117565)
- The performance of CICS Web Services when the application is not compiled with the AMODE directive has been improved.
3195445 (1117564)
- Micro Focus ECI support now supports user IDs and passwords that are greater than eight characters in length. See "*Micro Focus External Call Interface*" in the product Help for more details.

3195078 (1117382)

- HSF records for CICS transactions that are STARTed now have a valid latency value. Previously, the latency calculation was disabled and would always be 1 for STARTed transactions.

3194297 (1117182)

- An intermittent issue with SSTM jobs not running after the region has started has been resolved.

3175925 (1115789)

Documentation

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- The documentation topic "*Tutorial: CICS Web Service Provider from JSON, Request-Response Top-down Method*" contained incorrect syntax in step 3 of the "Test the ReverseJSON Web service provider" section. The correct syntax for the JSON request is:

```
{"myStrings":["olleH"]}
```

Which produces the following response:

```
{"myStrings":["Hello" ]}
```

3187750 (637771)

- The product documentation on Micro Focus SupportLine now includes instructions for how to install the product on a machine which is not connected to the Internet.

3163158 (1114776)

Enterprise Server Security

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- In Enterprise Server security configurations using multiple Security Managers with the MLDAP ESM Module, where all-groups mode is enabled and federation is disabled, user group membership is now maintained correctly.

3194825 (1117275)

- The MLDAP ESM Module no longer generates "invalid search filter" errors when using OpenLDAP to search for users with special characters in their LDAP Distinguished Names.

3194796 (1117268)

- An issue with modifying Enterprise Server user groups with names beginning with the hash character ("#") has been corrected.

(640174)

File Handling

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- A new MFJSORT option allows input LSEQ files to be treated as FB through setting the environment variable MFJSLSEQFB=ON.

3190089 (1116876)

Compiler

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- When compiling for JVM, setting a decimal field (that is, a field defined using the keyword 'decimal' or explicitly with type `java.lang.Decimal`) to a floating-point data item, no longer produces invalid code.

3195996 (1117327)

Debugging

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- Eclipse now finds the source file of a COBOL JVM class built outside the IDE and accessed during an Eclipse debug session. To enable that, the source lookup in the Eclipse launch configuration must have a "File System Directory" source container that points to the directory containing the source file of that COBOL JVM class.

3188793 (1116793)

Micro Focus Communications Server

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- There is no longer a memory leak in the mfcs process when using CICS Web interfaces with certain non-default tracing options enabled.

3195733 (1117308)

Mainframe Access

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- Zero length files no longer result in a hang on MFDAS VSAM import.

3194976 (1117273)

MTO - IMS DB

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- An OPEN of a secondary index DB did not automatically retry if the file was held exclusively by another job, resulting in a 9/065 open error. This has been fixed.

3192082 (1117021)

- SSTM JCL for IMS and CICS did not support the WIDTH() and NOHEX parameters. This has been fixed as follows:

WIDTH=<n> - Sets the width of the line in the trace file to the value of <n>, where <n> is an integer from a minimum of 50 to a maximum of 110.

NOHEX - Suppresses the display of hex values in the trace.

Example:

```
//BTSCONFG DD *  
PCB  
SSA  
IOAREA  
STATS  
TIMES  
LISTFILE  
WIDTH=80  
NOHEX  
/*
```

3192316 (1117081)

- A problem that restricted the /START DB command when a PROCOPT=GO PSB was active has been corrected.

3160070 (1117397)

- Update-intent locks were incorrectly issued in IRLM for PROCOPT=G PCBs. This created unnecessary lock constraint.

(639290)

MTO - JCL

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- A change to the dataset disposition processing introduced in Enterprise Developer 4.0 Patch Update 9 that stopped catalog entries being updated has been corrected.
3194787 (1117229)
- An issue that caused the ELSE and ENDIF lines of a job-stream to be missing from the job log has been resolved.
3193418 (1117114)

SQL: OpenESQL

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- The OESQL JDBC run time now retrieves data correctly via the READ ONLY cursor.
3193117 (1117107)

SQL Option for DB2

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- A problem with recalculating field values during the projection of the result for SUBSTR/SUBSTRING scalars with parameters 2 and/or 3 that contained field values has been resolved.
3196219 (1117383)
- The XDB Link DRDA/AR has been enhanced to process z/OS DB2 diagnostic information in all modes.
3187411 (1116687)
- When a location was successfully closed, a problem that prevented it from being marked as closed caused an error to be generated when subsequently setting a location off-line. This has been fixed.
3184848 (1116525)
- An issue with labeled duration arithmetic or row change timestamps using timestamps with precision greater than six has been resolved.
3181837 (1116189)
- A problem retrieving the value of the CURRENT PACKAGESET special register from the XDB Link DRDA/AR client to z/OS DB2 has been resolved.
3186735 (1116600)

Resolved Issues in Patch Update 10

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

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Assembler Support

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- The Assembler debugger was entering "zoom" mode under the Enterprise Developer CICS environment. It now pops up and waits for user input.
3183858 (1116890)

Documentation

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- You can now specify a `/m<host>:<port>` parameter for `casstart`. This enables you to specify the host and port that `casstart` should look for an MFDS service on, where the default host and port (`localhost:86` or `127.0.0.1:86`) is not the port the target MFDS service is bound to.
3192497 (1117064)

Enterprise Server

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- ITRs are now routed to the target SEP via `castsc`.
3193937 (1117152)
- A data loss issue has been resolved where `TRANCLASS` is enabled and a read and a write transaction for a protected Intra-Partition Transient data Queue commit concurrently.
3193323 (1117117)
- JSON data was being generated incorrectly when there was only one element in a JSON array item.
3192433 (1117035)
- When an internal PPT management table no longer has enough space to store its data a new larger block is allocated. Previously this would result in the creation of a dump for diagnostic purposes. Whether to generate the dump is now configurable using the environment variable `ES_PPTL_DIAG=Y`. You should use this if you are instructed to do so by Micro Focus support.
3191382 (1117066)
- An issue where a process recovery caused the entire region to crash has been resolved.
3192471 (1117060)
- There is no longer an issue with the order of file retrieval for the list of console logs affecting the calculated maximum log number.
3192214 (1117023)
- In MQ series support, the `MQCSP` block which can be passed on an `MQCONN` call and carries user credentials, was not being converted. This resulted in MQ connection failures.
3191698 (1117032)

Enterprise Server Security

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- Enterprise Server, LDAP-based security: The use of Active Directory groups, or other group classes that specify membership using LDAP Distinguished Names, now works correctly when the "user ID attribute" configuration option is also used.
3187284 (1116696)

File Handling

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- The SORT VLFILL parameter no longer saves the value from the previous execution on UNIX platforms.
3191730 (1116986)

JCL Support

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- mfjctlbp has been enhanced to include the return code, reason code and the return type from a call to an executable.
3190808 (1116938)

Mainframe Access

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- When a wrong password was entered logging in to Micro Focus Data Access Services, an error message was not always displayed. MFDAS now removes invalid user credentials from mfd daemon after they have failed a command and the problem does not occur.
3193313 (1117155)

Run-Time System

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- JVM COBOL only.
In a program compiled with `arithmetic(entcobol)`, a COMPUTE statement with terms such as `var-a * var-b`, where the result after truncation was 0, could give a `java.lang.ArrayIndexOutOfBoundsException` exception, or equivalently the error "arraycopy: length -1 is negative". This bug has been fixed.
3190955 (1117137)
- The NUMVAL intrinsic function no longer produces an error at run time when used with national data in a program compiled with a mainframe COBOL dialect.
3191506 (1117099)
- JVM COBOL applications using ILDYNCALL, run in an application server environment, no longer generate COBRT173 errors for RTSHOOK.
3190205 (1116879)

Resolved Issues in Patch Update 9

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- [SQL: Cobsql](#)

- [SQL: DB2 ECM](#)
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Assembler Support

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- A problem that caused an assembler program to be identified as CICS based on a user-written macro named 'EXEC' has been corrected. Programs are now identified as CICS only when 'EXEC' is followed by 'CICS'.
3182606 (1116316)

Dialog System

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- A bug which prevented character mode Dialog System from recognizing **ctrl-J** and other key combinations has been fixed.
3189921 (1116908)

Documentation

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- The recommended method of high availability for VSAM files in Enterprise Server is to use standalone Fileshare. The documentation has been changed to reflect this.
(637491)

Enterprise Server

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- `xa_open` in the switch module now returns the correct return-code.
3171133 (1115386)

IMS Support

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- The correction to SI 2847064 (RPI 1103584) caused the DBDGEN directive `SXRBAFORMAT(2)` to behave as `SXRBAFORMAT(0)`. `SXRBAFORMAT(1)` was unaffected.
3186315 (1116562)
- When compiling the MFS source for EBCDIC, some conditional literal values were erroneously stored in the generated control block as ASCII, causing a print output error. This has been fixed; however, previously generated MFS must be regenerated to pick it up.
3178841 (1116848)

Licensing

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- When creating a Red Hat Enterprise Docker image, if your company details in the license file are large, you might receive an error when executing the `MFLicenseAdmin` command. This has been fixed in this Patch Update and you need to re-apply the license to the Patch Update image. This will happen automatically if the license file (`.mflic`) is in the same location as the Patch Update docker install script.
3190951 (1116969)

Micro Focus Batch Scheduler Integration

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- When MFBSI basic substitution is used, any characters (not just numerics) in cols 73-80 are now ignored.

3189187 (1116795)

Micro Focus Directory Server

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- The Enterprise Server Administration Web UI will only display user session details if the logged-in user is authorized.

3190235 (1116886)

- Additional Enterprise Server Administration Web UI server-side checks were added to guard against non-editable field value changes for started Enterprise Server instances and active security configurations.

3185626 (1116719)

Run-Time System

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- In managed COBOL, for a very small set of cases for exponentiation and DIVIDE ROUNDED, performance was very poor. Also, for some of this set of cases, the result of DIVIDE ROUNDED could round in the wrong direction. These issues have been fixed.

3185807 (1116589)

SQL: Cobsq1

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- A compilation error that was caused by the COBSQL preprocessor incorrectly handling sections declared inside of a copybook has been fixed.

3164533 (1116863)

SQL: DB2 ECM

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- An optional 'FROM' keyword in SQL statements such as 'FETCH FROM <cursor-name>' used to cause compiler errors.

3191635 (1116976)

SQL: OpenESQL

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- JDBC now returns SQLCODE=+1 when the fetched value is NULL and NULL indicator is not used.

3191192 (1116953)

- OpenESQL has been updated to provide `cobrhcedsn64.so` for 64-bit only platforms.

3174065 (1116801)

Resolved Issues in Patch Update 8

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [Cob/Cbllink/Cblnames \(32-bit PC\)](#)
- [Compiler](#)
- [Enterprise Server](#)
- [Enterprise Server Security](#)
- [File Handling](#)
- [IMS Support](#)
- [JCL Support](#)
- [Mainframe Access](#)
- [SQL: DB2 ECM](#)

Cob/Cbllink/Cblnames (32-bit PC)

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- Creating a .dll file in 64-bit mode no longer produces warnings regarding undesirable base address.
3186547 (1116572)
- Creating an executable or shared object with the `cob` flags `-U` or `-d` no longer results in an assembler error message.
(637247)

Compiler

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- Compiling a very large COBOL program with many GO TO statements to JVM no longer results in a verification error on program load.
3188208 (1116743)

Enterprise Server

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- After changes to RPI 632930, a literal with spaces at the end caused a compilation error when used in SEND MAP. This is now fixed.
3187511 (1116671)
- LRECL fields are now displayed correctly in Data File Tools when accessing Enterprise Server hosted data files.
3186524 (1116586)
- MQ Security is now used when using DSNRLI.
3183523 (1116641)
- Previously, when viewing cataloged datasets or Spool files in ESMAC, it was not possible to view any lines beyond line 99,999. Now the limit for the START field in ESMAC has been increased to hold any number up to 99,999,999.
3181032 (1116152)
- A problem with the CASA_ECI function was causing a run-time error on calls to modules loaded via CICS LOAD HOLD. This has been fixed.
3177527 (1116614)
- In a heavily loaded Enterprise Server cluster, it was possible for jobs to be dispatched to a printer process instead of to a batch initiator. This would result in the job's lock being permanently held and prevent further submission of jobs of that name.

3162806 (1116082)

Enterprise Server Security

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- Enterprise Server's MLDAP ESM Module now supports setting LDAP passwords using salted SHA2-512 hashes, otherwise known as the SSHA512 LDAP password type.

3178540 (1116077)

File Handling

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- SORT operations no longer compare field data that is outside of the current record length.

3187044 (1116633)

IMS Support

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- A problem that caused enforcement of segment delete rules when deleting a virtual logical child (VLC) segment via an ACCESS=LOGICAL DB view has been fixed.

3183252 (1116497)

- IMS Connect has been updated to support the IRM header to be in either EBCDIC or ASCII. In addition, system messages returned in the response are now in EBCDIC when the input IRM header is EBCDIC or the header's IRM_F5 "translation done by client" bit is set (x'40'), indicating the client expects the response to be EBCDIC. This is consistent with non-system output messages, which are in EBCDIC when this bit is set.

3179210 (1116368)

JCL Support

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- An issue that prevented jobs from being started when an initiator was available has been fixed.

3184852 (1116450)

- The incorrect removal of commas between parameters passed to the REXX interpreter, introduced in release 4.0 Patch Update 5, has been corrected.

3184475 (1116418)

- A problem that prevented the MSGCLASS JOB CLASS, and the setting of ES_JESYSMSG_OUTPUT and restrictions, from being honored for SSTM jobs has been fixed.

3183255 (1116438)

- In MFFTP, the data conversion module name, specified by MBDATACONN or SBADATACONN, is now parsed correctly and the module called to perform the data translation.

3173596 (1115776)

- Assembler run-time support for SSTM under Enterprise Server is now available. The Assembler run-time now performs a check for Enterprise Server run-time environments with JCL enabled or with SSTM enabled for IMS and CICS online environments. If found, Assembler attempts to merge its own MVS control block emulation with the MVS control block emulation being done in the JCL component.

3172585 (1115455)

Mainframe Access

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- MFDAS now supports importing IMS and DB2 types to the local catalog.
3184718 (1116546)
- SyncMon2 will now display characters correctly when the console output is redirected to a file.
3184737 (1116484)

SQL: DB2 ECM

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- A problem with the DB2 preprocessor caused it to incorrectly classify PLI variables greater than 4000 bytes as LONG VARCHAR when it should have classified PLI variables less than 32767 bytes as VARCHAR as it does for COBOL variables. This has been fixed.
3185976 (1116539)

Resolved Issues in Patch Update 7

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- [Debugging](#)
- [Documentation](#)
- [Enterprise Server](#)
- [Enterprise Server Security](#)
- [File Handling](#)
- [Mainframe Access](#)
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- [Micro Focus Batch Scheduler Integration](#)
- [Micro Focus Directory Server](#)
- [Run-Time System](#)
- [SQL Option for DB2](#)

Compiler

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- A CALL statement USING by reference the address of a non-01-level linkage item no longer causes the containing linkage record to have a new address on return from the call.
3179701 (1116403)

Debugging

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- Whilst debugging, examining variable values by hovering over the variable no longer causes an error.
3179385 (1116025)

Documentation

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- Result precision has been added the following built-in functions topics in the LRM: INDEX, MAXLENGTH, SEARCH, SEARCHR, VERIFY, VERIFYR.
3183332 (1116336)

- The *Installation Notes* in the product documentation have been updated to say that the "ed", "sed" and "tar" utilities must be installed and added to the PATH.
3177241 (1115871)
- The Software Requirement on UNIX topic in the docs and in the *Release Notes* now specifies that SafeNet licensing requires that you have `glibc-locale-32bit` library installed on 64-bit machines.
3167672 (1115010)

Enterprise Server

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- A BATCH DLI job executed in a region with at least one XA switch active could abend at the end of a JOB on a SYNCPOINT PREPARE failure.
3181636 (1116221)
- A problem that prevented auditing in 64-bit COBOL processes has been corrected.
3180251 (1116090)
- CICS Web Services requester applications were not always sending the correct value for the SOAPAction header.
3182512 (1116255)
- In Data Files Tools, the performance of opening a PO dataset that is hosted within Enterprise Server has been improved.
3178780 (1116293)

Enterprise Server Security

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- For Enterprise Server LDAP-based security, recent fixes to group processing exposed an issue when multiple LDAP repositories are used and all-groups mode is enabled. This could cause some or all of a user's group memberships to be disregarded, leading to incorrect denial of access to resources. The problem has been corrected.
3182724 (1116269)
- With certain Enterprise Server security configurations, the Data File Editor could display a "signon failed" error when attempting to edit a dataset. This has now been fixed.
3177366 (1116022)

File Handling

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- A Fileshare server shutdown no longer leaves files opened or users remaining logged on.
2837526 (1108076)

IMS Support

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- A problem with MFS map output caused storage violations in CASTMC. The size of the output buffer has been increased to correct this problem.
3180502 (1116197)
- A problem that prevented dynamic debugging from working correctly when switching to a second IMS transaction has been fixed.
3180027 (1116094)

- A problem that caused incorrect formatting on print output with multiple DPAGES has been fixed.
3178841 (1116049)

JCL Support

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- MFFTP APPEND processing has been enhanced to accept the abbreviations AP and APPE, and to correctly process quoted dataset names.
3182125 (1116215)
- The next generation indexing for a relative generation following a sweep delete of GDG generations has been improved, to be more consistent with mainframe behavior.
3181663 (1116195)

Mainframe Access

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- SyncMon2 will now correctly accept EXT= or EXTENSION= for specifying a file extension to be used for the sync.
3183101 (1116324)

Micro Focus Batch Scheduler Integration

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- When a Control-M %%INCLIB statement using an %%IF/%%ELSE sequence is used in JCL in-stream data, invalid //*CTM INCLIB is no more outputted in the JCL data.
3183202 (1116321)

Micro Focus Directory Server

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- The mfd_s -h command-line option output was being incorrectly suppressed. This output is required by the MFESdiags support script. This has now been fixed.
3182204 (1116234)

Run-Time System

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- Under certain circumstances, if a file was opened multiple times and an error occurred, then any physical locks on the file could be lost.
3177819 (1116043)
- In a threaded environment, when using critical-sections and simultaneously loading/unloading shared-objects, a race condition would sometimes create a deadlock. This no longer occurs.
3177711 (1116154)

SQL Option for DB2

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- A number of XDB components have been enhanced to better implement bulk INSERT/UPDATE/MERGE statements using both local XDB engines and XDB Link in dynamic and static mode to z/OS DB2.

3175084 (1115695)

Resolved Issues in Patch Update 6

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The numbers that follow each issue are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

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- [Compiler](#)
- [Enterprise Server](#)
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- [JCL Support](#)
- [Licensing](#)
- [Mainframe Access](#)
- [SQL: COBSQL](#)
- [SQL: OpenESQL](#)

Assembler Support

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- Assembler run-time support for SSTM under Enterprise Server is now available. The Assembler run-time now performs a check for Enterprise Server run-time environments with JCL enabled or with SSTM enabled for IMS and CICS online environments. If found, Assembler attempts to merge its own MVS control block emulation with the MVS control block emulation being done in the JCL component.

3172585 (1115455)

Compiler

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- Very large programs including XML PARSE or XML GENERATE statements no longer produce system errors during compilation to JVM.

3179669 (1116054)

Enterprise Server

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- An issue that caused CTG requests using SNT users to be rejected has now been resolved.

3178729 (1115967)

- An issue which resulted in the **DELETE** and **DETAILS** button staying disabled in the **casrdo45** page has now been fixed.

3181230 (1116351)

- CICS could mark files as closed when they were still open.

3177819 (1116047)

- EXEC CICS ASSIGN PRINSYSID now returns the system identifier (SYSID) of the principal facility on a DTP exchange.

3176355 (1115959)

Enterprise Server Security

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- For Enterprise Server LDAP-based security, recent fixes to group processing exposed an issue when multiple LDAP repositories are used and all-groups mode is enabled. This could cause some or all of a user's group memberships to be disregarded, leading to incorrect denial of access to resources. The problem has been corrected.

3182724 (1116269)

- In Enterprise Server with LDAP-based security where a security configuration uses two or more LDAP-based Security Managers, and use-all-groups mode and group federation are enabled, in some cases group membership was not processed correctly. Messages about "configured number of groups exceeded" could be logged. This issue has been resolved.

3178071 (1115917)

- When using LDAP-based security for Enterprise Server with an OpenLDAP-based provider (client) library, the "connect timeout" setting now works correctly.

3172554 (1115522)

- LDAP-based security for Enterprise Server could produce MD5 password hashes (using the "mode=bind" and "password type=MD5" configuration option; note this is rarely used) which did not use the canonical Base64 encoding. Some LDAP servers did not recognize these password verifiers, resulting in sign-on failures after users changed their passwords. This has been fixed.

3162441 (1114843)

IMS Support

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- When trying to print during a TN3270 session, the terminal could hang waiting for a response. This no longer occurs.

3177584 (1116002)

JCL Support

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- Performance in retrieving the next JCL job to run has been improved.

3179792 (1116151)

- When opening a data set from the Data File Editor, you can now filter the catalog contents further by using the 'Disable Additional Qualifiers' check box. This is the same option as is available in ESMAC; it emulates the effect of disabling the 'Include Additional Qualifiers' option on the mainframe.

3178780 (1115991)

- You no longer experience performance issues with Data File Tools when the editor is displaying PO entries hosted in Enterprise Server.

3178780 (1116139)

- Within an MFFTP CD command, directories contained within single quotes will no longer have double quotes added around the single quotes.

3178420 (1115998)

- The incorrect step COND CODE of zero when a PL/1 program abends because the OUTLIM value has been exceeded, has been corrected, and will now be correctly reported as S722.

3177778 (1115902)

- An error was incorrectly being reported when a symbolic parameter substitution split over multiple lines.

3177166 (1115863)

- An error when trying to rename a data set where its location was identified using an environment variable in the allocation override, coupled with ES_ALLOC_EXPAND=N, has been corrected. The environment variable is now resolved to the correct physical location.

3176747 (1115832)

Licensing

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- In Docker environments, the license administration program, MFLicenseAdmin, now copes with longer-than-usual license strings. These occur with longer pieces of customer information embedded in the license.

3174371 (1115634)

Mainframe Access

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- When SyncMon2 was unable to contact MFA Server it would try and print an error message and crash. This has been fixed and will now correctly display the error message.

3174011 (1115779)

- ALLOW_REGEX is now optional for all sync types.

3147936 (1113422)

- Dragging an Endeavor file from Mainframe Explorer into a COBOL project in Visual Studio now works. (636957)

- The Edit context menu now works correctly for PDS members in the Mainframe Explorer window in Visual Studio.

(636958)

- MFDAS Endeavor and password commands now use the main security path.

(636330)

SQL: COBSQL

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- The XAID option did not work properly for COBSQL when CHARSET(EBCDIC) was used.

3174070 (1115697)

SQL: OpenESQL

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- HCOSS now accepts FOR READ ONLY clauses in cursors before FETCH FIRST clauses. This is undocumented behavior for DB2 z/OS but HCOSS now supports it to ensure mainframe compatibility.

3173586 (1115528)

Resolved Issues in Patch Update 5

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- [Character Animator](#)
- [Communications Server](#)
- [Documentation](#)
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- [IMS Support](#)
- [JCL Support](#)
- [Micro Focus Directory Server](#)
- [SQL: DB2 ECM](#)
- [SQL: OpenESQL](#)
- [XML Support](#)

Character Animator

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- Animator no longer slows down when continuously pressing Step.
3175862 (1115750)

Communications Server

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- In some versions of Enterprise Server, a TN3270 conversation would hang if the ATTN key was used. This has been corrected.
3173146 (1115498)

Documentation

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- The `/e` and `/h` options have been added to the `casdup` documentation. See `casdup` in your product Help for more information.
3175542 (1115716)
- The Enterprise Developer documentation now includes details about the CICS API Calls.
3146051 (1113184)
- The Enterprise Developer documentation now correctly states that the STATUS and SHARESTATUS operands are fully supported in the SET PROGRAM and INQUIRE PROGRAM CICS SPI calls.
3145947 (1114525)
- The order that the Compiler processes directives has been clarified. See "*The Order in which Compiler Directives are Processed*" in your product Help for more information.
(635978)

Enterprise Server

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- INQUIRE TASK, SET TASK FORCEPURGE and SET TASK KILL now work when passed a task ID that corresponds to a task running in a transient SEP.
3176467 (1115802)
- A problem that caused data corruption when using RECEIVE MAP in a DBCS environment has been fixed.
3175191 (1115688)
- The MQ XA switch modules now supports the BATCHONLY option.
3173781 (1115552)
- Previously, `xwbauth` user exit was not invoked if URIMAP path was greater than 64 characters.
3173349 (1115514)

- When a region was configured to use Extended User Storage, the associated memory was not registered with MFPM. This resulted in issues when using GETMAIN SHARED from a program compiled with the AMODE directive.
3173307 (1115549)
- CICS no longer attempts to map responses for DELETE requests for JSON RESTful services. Previously, this was causing the service to hang or encounter a Run-Time System error in dfheserv.
3172688 (1115459)

Enterprise Server Security

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- The cache feature of the Enterprise Server External Security Facility now ignores some metadata when comparing requests with cache entries. This is configurable. By default, the subsystem (CICS, JES, etc.) and facility (terminal name, if any) are ignored. No ESM Modules supplied with the product use that information in making security decisions. This significantly improves the cache hit rate and system performance in some environments. See "*Enabling and Configuring Caching*" in the product documentation for more information.
3172719 (1115513)
- When using Enterprise Server with LDAP-based security, it is now possible to specify an LDAP attribute for user-group objects which specifies an alternative name for the group using the group short name attribute. See "*MLDAP ESM Module Custom Configuration Information*" in your product Help for more information.
3171437 (1115364)

IMS Support

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- A problem that caused screen values to be lost when moving NULL to output fields has been fixed; however, to restore the screen values, you must regenerate the MFS.
3174377 (1115708)
- A problem that caused multiple hierarchical database fields to show in incorrect positions on the screen when the PCB for the database specified POS=M has been fixed.
3155761 (1114070)
- A program-to-program message-switch to a non-response-mode transaction sometimes caused a DFS2082 message to appear erroneously. This has been fixed.
3172148 (1115425)
- A message inserted by a response-mode transaction to an express PCB sometimes causes a DFS2082 message to appear erroneously. This has been fixed.
3168150 (1115053)
- A limitation with MQ Writer prevented it from automatically reconnecting to MQ after losing the connection. MQ Writer has been updated to automatically reconnect to MQ if it should lose the connection.
3164352 (1114745)

JCL Support

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- A lock on a dataset is now removed correctly when using mvscatpb.
3174350 (1115610)

- You no longer received an "Index out of bounds" error message when exporting a catalog using MFCATXML.
3173762 (1115550)
- If a job abends because it timed out (S322 abend code), any SYSOUT files from the job that were 'active' will now be moved to either the OUTPUT or the OUTPUT HOLD queue.
3173743 (1115562)
- Program parameters changed by the user exit, MFJUXIT, are now applied correctly. An invalid parameter passed to IKJEFT01 is reported as such, but does not set a COND CODE of 12. Commands not found by IKJEFT01 do not set a COND CODE or stop processing. Commands not found by IKJEFT1A or IKJEFT1B are reported, give a COND CODE of 12, and stop further processing.
3173270 (1115511)
- A problem with multiple VSE \$\$LST entries, where previous entries were being overwritten, has now been corrected.
3169047 (1115308)

Micro Focus Directory Server

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- Establishing a connection to a TLS-enabled MFDS process if non-default (non-DemoCA) certificates were used now works as expected.
3174276 (1115675)
- The MFDS journal data format has been enhanced to be platform and bitism independent.
3169565 (1115249)
- The MFDS process could terminate when copying the definition of an Enterprise Server instance if it contained a very long description text.
(636515)

SQL: DB2 ECM

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- The DB2 pre-compiler incorrectly passed COBOL variable names to PL/I programs when generating code to handle EXEC SQL SET CURRENT PACKAGE PATH statements.
3175885 (1115744)
- The DB2 and OpenESQL pre-compilers now qualify generated code that uses SQLSTATE to qualify SQLSTATE similar to this one: SQLCA.SQLSTATE.
3173295 (1115512)

SQL: OpenESQL

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- Problems with SQL Server and PostgreSQL that surfaced when working with large binary columns have been fixed.
3156215 (1114335)

XML Support

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- XML PARSE now handles "WITH ENCODING" clauses correctly.
3175231 (1115707)

Resolved Issues in Patch Update 4

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- [Run-Time System](#)
- [SQL: OpenESQL](#)
- [SQL Option for DB2](#)

Adis

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- ERASE EOL no longer stops Keisen attributes being inherited when enabled by x"AF" function 81.
3169584 (1115178)

Codeset Support

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- JCL jobs executed via the `casub` command no longer produce RTS 114 MFTRNSDT errors.
3173144 (1115497)

Compiler

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- An INSPECT phrase without BEFORE/AFTER, followed by another with either BEFORE or AFTER, no longer leads to incorrect results.
3172678 (1115458)
- With the ODOSLIDE directive on, bad code is no longer sometimes generated for JVM, and you no longer receive a verification error at program load.
3167786 (1115063)

Data Tools

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- On systems with a Japanese Locale, the Data File Tools utility no longer includes the phrase "Technical Preview" in its title.

(635882)

Dockerfiles

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- Java is no longer included as part of the Docker demonstrations. The scripts to create the product's base images have new arguments that enable you to specify which vendor's version of Java is included in the image:
 - The argument 'java' causes OpenJDK 8 to be downloaded from the AdoptOpenJDK website and included in the image.
 - The argument 'oraclejava' causes an already-downloaded version of Java from Oracle to be used in the image.
 - The argument 'nojava' causes the image to be created with no Java included.

(635751)

Documentation

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- *Example Open String* has been corrected. See "XAR for WebSphere MQ" in your product Help for more information.

3171133 (1115464)

- The product help now lists the `gcc*` libraries as prerequisites for compiling COBOL code on Red Hat Linux.

3171943 (1115399)

- The Enterprise Developer documentation now includes details about the CICS API Calls.

3145947 (1114525)

Enterprise Server

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- `casout` will no longer crash when using the `/v` option and there are more than 256 initiators/batch printers/mprs.

Information for approximately 1300 processes can now be returned. If more than that exist, then `casout` will return as much as it can and set return-code to 4.

This may be caused by schedulers using the entry point 'casout_getSEPS'. This can be called after using the `casout` API with the `/v` option. The signature for this entry point is:

```
entry 'casout_getSEPS' using lk-casout-area
```

`lk-casout-area` is defined in `casbout.cpy` but can only hold information for up to 256 processes. If there are more than 256 processes then a call to this entry point will return truncated data (that is, 256 instances) and set return-code to 4.

Since `casout /v` can now return data for more than 256 processes, a new optional parameter, which is a pointer, has been added to `casout_getSEPS`:

```
entry 'casout_getSEPS' using lk-casout-area lk-casout-user-area-ptr
```

If there is data for more than 256 processes, then this pointer will be set to the address of the entire block of data.

3171604 (1115376)

- Transaction routing requests from the same terminal to an ISC connected region involving a DPL request to an APPC connected SYSTEM now execute successfully.
3170073 (1115270)
- EIBTASKN now conforms to IBM CICS with a maximum value of 99999. When reached, the task number rolls over to a value greater than zero.
3168772 (1115148)
- A problem that sometimes caused an infinite loop in user prologue code when multiple CALLs were made to the same CICS compiled program has been corrected.
3168646 (1115243)
- UTF-8 special characters used in languages such as Swedish and German are now supported for dataset names and in FCT resources.
3168514 (1115156)
- Event manager exits that are enabled for SEP termination events are now invoked when a SEP, Initiator, MPR, or a printer is stopped cleanly (from ESMAC and casout) and not just when they are killed.
3168159 (1115051)
- A problem that caused a long-running task that issued an EXEC CICS SYNCPOINT to throw a duplicate XID error has been fixed.
3167061 (1115223)
- An LU62 connection definition now accepts a Fully Qualified Partner name, `_FQPARTNRNAM`. This field is formed of a NETWORK ID and a Partner LU name (both of up to eight characters) separated by a period ('.'). For example:

```
_FQPARTNRNAM(BBNET1.CICSDEVA)
```

If the Fully Qualified Partner name in the connection is validated and installed, it will be used at run time on the APPC Allocate verb, whereas the PARTNER LU Alias is set to binary zeroes.

- Remove locks is now enabled if the user has authorization in ESMAC.
3165257 (1114815)
 - When using Enterprise Server with LDAP-based security, with two or more LDAP External Security Managers, with the use-all-groups mode enabled, and with federation either enabled or in compatibility mode (the default), it is no longer necessary to have a definition for each user in each LDAP ESM. Specifically, once one LDAP ESM has identified the user, subsequent ESMs (those specified later in the list of security managers) can specify additional groups for that user without having to define the user again.
3157534 (1114372)
- For example:** A security configuration specifies two LDAP security managers, LDAP-A and LDAP-B. LDAP-A contains only user records. LDAP-B contains only group records and resource access rule records. All-groups mode and federation are enabled. This configuration now works as expected.

2545079 (1081762)

Enterprise Server Security

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- Enterprise Server LDAP-based external security no longer experiences a rare failure ("error code 7") when verifying a user with advanced group processing options enabled.

3168197 (1115048)

File Handling

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- SORT no longer produces an RTS114 error when both outfil and sortout datasets are not defined.
3154290 (1113901)

IMS Support

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- Two new Enterprise Server environment variables, ES_IMS_SINGLE and ES_IMS_LTERM_PREFIX, have been added that enable you to configure support for multiple sign-ons by a single user across multiple LUs. See [New Features](#) for details.
3146936 (1113313)
- New IMS print exit functionality allows data destined for a printer to be redirected to the DFSPRINT exit routine prior to any printing.
3140423 (1112727)

JCL Support

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- If DSNRLI makes a TX call that does not return the expected value, the return code is reported in a message to the job log and the return code from DSNRLI is 8. The reason code reflects where the issue occurred.
3171133 (1115345)
- Following a TERMINATE IDENTIFY call, DSNRLI now return a return code 4, with a reason ERR-NOT-IDENTIFIED on a call for the same XA resource until a new IDENTIFY call is made.
3171131 (1115360)
- When an SMS DATACLAS is used, the relevant values are now used from the DATACLAS when a new GDS is created unless explicitly defined otherwise.
3170401 (1115293)
- A problem with the spool housekeeping utility (MVSSPLHK), which failed to find some data sets when ES_ALLOC_EXPAND=N was configured, has been resolved.
3169705 (1115264)
- An error when deleting a job on the Input queue, which resulted in a SYSZJOBDB lock being left, has been corrected.
3162806 (1115022)

Mainframe Access

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- MFDAS now correctly respects connection information specified by the caller.
(635929)

Micro Focus Batch Scheduler Integration

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- The Control-M variable %%JOBNAME takes its value from the JOBname found on the JOB card, and will now honor variable substitution. In the following example, %%JOBNAME will be resolved to "TESTQA".

```
// * %%SET %%ENV=QA
//TEST%%ENV JOB (101, 'ES JCLS'), CLASS=A,
// MSGCLASS=H, COND=(4,LT)
```

3171321 (1115408)

Micro Focus Communications Server

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- The transferring of files via CICS RECEIVE is now working as expected.
3159602 (1114325)

Micro Focus Directory Server

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- Trying to view or edit the properties of a Security Manager that is not in the Directory Server Security Manager list now results in receiving an appropriate warning message instead of an HTTP 404 error.
(635809)

Run-Time System

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- A problem with the terminal being left in an unusable state after program termination on Solaris has been fixed.
3165224 (1115485)

SQL: OpenESQL

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- A problem that caused the OpenESQL runtime to incorrectly handle binary parameter markers for PIC X(n) VARYING host variables has been fixed.
3163759 (1114719)

SQL Option for DB2

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- A problem caused by an uninitialized stack variable that resulted in a server violation has been fixed.
3168714 (1115237)
- The XDB pre-compiler incorrectly tried to generate interface logic in nested COBOL routines without checking if a SQLCA copybook was defined. This resulted in an "Undefined ECM error" error message. This has been fixed.
3168445 (1115099)
- XDB Link has been updated to support the invocation of stored procedures that return multiple result sets on z/OS DB2.
3168036 (1115315)

Resolved Issues in Patch Update 3

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Enterprise Server

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- Transactions with a timeout that was running over midnight were timing out prematurely at midnight.
3169194 (1115144)
- An RTS error 153 occurred when more than 6400 PCT entries were displayed in ESMAC. This has been fixed.
3167388 (1115007)
- The cursor position is now correctly identified when using floating maps - a map on top of another map.
3166543 (1114958)
- Programs containing CICS RECEIVE INTO / RECEIVE MAP in a DBCS environment and compiled to ASCII produced an erroneous @ symbol when data sent as part of a MAP was truncated using the Delete key. This has been fixed.
3166924 (1114956)
- If created from a previous run, `cas_ipcs.lst` and `cas_ps.lst` will now be deleted at the next region startup.
3165807 (1114872)
- An issue with creating FCT entries with 'Use Catalog' has now been fixed.
3165308 (1115000)
- The following options have been implemented for SET TERMINAL:
 - PURGETYPE(PURGE) / PURGE
 - PURGETYPE(FORCEPURGE) / FORCEPURGE
 - PURGETYPE(KILL) / KILL
 - TERMSTATUS(RELEASED) / RELEASED
- 3164392 (1114739)
- The response time for catalog searches using 44 character strings in ESMAC has been improved.
3162969 (1114933)
- A terminal definition request from a UniKix system during a transaction routing operation is now responded to appropriately.
3162296 (1114961)
- In an ESM secure region, when the userid field in a terminal definition was populated, there were issues at region startup or when trying to install the TERMINAL resource.
3158468 (1115137)

Documentation

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- When installing the product into other instances of Eclipse you must use the Eclipse IDE for Java EE Developers package. See "*Installing Enterprise Developer into other instances of Eclipse*" in your product Help for more information.
3169097 (1115126)

File Handling

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- Rollback recovery will no longer hang when processing a bad log entry during a scan of the transaction log file.
3168055 (1115049)
- CFLE updating large record no longer results in an RTS252 error with the HA-VSAM configuration.
3167973 (1115057)

Mainframe Access

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- The /CATLOG option on MFDAS commands is no longer ignored.
3131397 (1111830)

IMS Support

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- When XA was enabled, an IMS BMP that issued a STOP RUN instead of a GOBACK caused unpredictable errors depending on the XA resources defined. This has been corrected.
3165313 (1114838)
- A problem that caused a loss of input data when the **PF5** key was pressed repeatedly and rapidly, or when the keyboard was locked, for an MFS screen set to clear all unprotected screen fields upon output. This has been fixed.
3157814 (1114455)

JCL Support

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- When a the value associated with a PARM within a JCL job is quoted and spans multiple lines, the white space at the end of the lines is now correctly retained.
3166752 (1114968)
- SYSPRINT DD DUMMY is now supported within an IEBPTPCH step.
3166633 (1114931)
- The spool file ()-create-date and ()-create-time fields are now correctly populated in the printer exit interface.
3165857 (1114871)
- The console log message MVSER0995U now reports the file status code.
3164710 (1114774)
- The 'mfpubcat.inc' PL/I file now contains the same declarations as its equivalent COBOL file 'mfpubcat.cpy'.
3164527 (1114777)
- MFCATXML now returns both any records of datasets from user catalogs as well as the main system catalog.
3162870 (1114667)
- When using multiple XA resources with DSNRLI, an XA START is now called for the specified XAR, rather than all XAs, when the DSNRLI function CREATE THREAD is called.
3162753 (1114624)

SQL: DB2 ECM

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- A problem that occurred with user personalization on user names exactly eight characters long has been fixed.
3156639 (1114163)

SQL: OpenESQL

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- The DSNRLI function SWITCH TO is now supported for Enterprise Server Mainframe Subsystem applications using DB2, Microsoft SQL Server, and PostgreSQL.
3151779 (1113680)

SQL Option for DB2

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- A problem that prevented XDB Server configuration from allowing the full length of 16 characters in the Global Security Location text box has been fixed.
3168821 (1115106)
- A memory leak in DRDA Continue Query Reply Message processing has been fixed.
3160580 (1114426)

XML Support

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- Data within the CDATA tag is now processed by the managed XML syntax support run-time.
3166588 (1114954)
- XML PARSE did not handle lengthy CONTENT-CHARACTERS correctly, which caused the event to be returned twice.
3162231 (1114582)

Resolved Issues in Patch Update 2

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Data Tools

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- The IMS DB Editor's handling of segment layouts that contain hyphens has been improved.
3156235 (1114112)

Documentation

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- The product help now lists some additional requirements when running .NET COBOL applications from a network server. Your workstations must have the Microsoft .NET Framework version 4.5.2 or later and the Microsoft Visual C++ 2017 Redistributable Runtime installed.
3161217 (1114487)
- Correction of some typos in the "Calling MVSSPLPB" topic in the product Help.
3161446 (1114490)
- The LE condition-handling callable services CEE3GRO and CEEMRCE are unsupported but they are now accepted without any actions occurring. See "Condition-Handling Services" in your product Help for more information.
3141452 (1112855)
- The "Tutorial: Creating and Accessing WCF COBOL Services" in the product Help has been updated.
3125963 (1114011)

Enterprise Server

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- When starting a CICS Web service application, the start code on ASSIGN was 'S ' instead of 'U '. Also, a residual EIBCALEN value was left when the application was using channel and containers instead of commarea. These issues have been fixed.
3166323 (1114912)
- Messages containing %S caused a CASCD error. This has been fixed.
3164390 (1114738)
- The path of the ESDB2XA switch module is not required in the environment variable LD_LIBRARY_PATH when the application is compiled with XAID option and the dynamic switch module is used.
3164301 (1114734)
- Programs that contained RECEIVE INTO followed by a RECEIVE MAP using FROM and INTO options caused errors when compiled to ASCII. This has been fixed.
3164053 (1114708)
- When Enterprise Server activates an LU62 connection to the mainframe or to another APPC linked system, you can now leave the modename to SPACE. This indicates that the remote side of the APPC connection should use an elected default modename.
3162296 (1114713)
- When the last CICS API of a program invoked by an ECI client fails and this program handles the exception, if this program terminates with a GOBACK rather than an EXEC CICS RETURN, the ECI client does not receive an error any more.
3161830 (1114584)

- The attention key was lost when using CSPG. This has now been fixed. When defining the BMS PAGING KEYS, you need to use the command first before the value for the key. For example, if the retrieve command is P/ then the PFK1 should be set to P/N (N for Next), PFK2 P/P (P for Previous) and so on.

3161110 (1114505)

- casrdtup now supports all valid characters in the TDQ Name.

3161013 (1114461)

- XWBAUTH is now invoked on CICS INVOKE SERVICE when the associated URIMAP is defined with AUTHENTICATE(BASIC). Important: With this update, all applications that use WEB CONVERSE or WEB SEND SESSTOKEN explicitly with the AUTHENTICATE, BASICAUTH, or NONE options, and that do not use a URIMAP that specifies the AUTHENTICATE attribute, must be recompiled. (This does not affect applications that use a URIMAP that specifies the AUTHENTICATE attribute.)

3160060 (1114599)

- You can now configure certain fields within the record that is written to a .csv format HSF report. Use the ES_HSF_CFG environment variable to configure the number of Custom, CICS file, TSQ, and TDQ fields in each record. To write custom data to the Custom fields, use the ES_WRITE_CUSTOM_HSF library routine. See the latest online help for more information on these new features.

3151200 (1113676)

File Handling

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- MFJSORT now ignores the RECORD TYPE value if the SORTIN dataset is non-VSAM.

3163293 (1114669)

- During a SORT, the SUM statement now correctly handles 8-bytes BI fields.

3161349 (1114540)

IMS Support

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- A problem that caused CASDBC to exit with an RTS 114 error when POS=M (multiple positioning) and the database was being accessed for a GNP call with no SSAs and that returned a GE status code.

3160959 (1114631)

- In some circumstances, a DX status code (DLET rule violation) might have been issued in error or not issued when it should have been. This has been corrected.

3149186 (1113582)

JCL Support

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- The IDCAMS ALTER GDG processing now includes support for the EMPTY|NOEMPTY, SCRATCH|NOSCRATCH and LIMIT parameters.

3161965 (1114592)

- If the current highest bias of a GDG is removed outside of a JCL job, for example via the ESMAC catalog view or the public catalog API, the high bias value of the GDG model is recalculated to reflect the remaining biases.

3161796 (1114520)

- SHAREOPTIONS settings in a MODEL cluster are now applied correctly to a newly-defined CLUSTER.

3161763 (1114517)

- An RTS114 error, reported when closing down a region containing an allocation override file that contains an unsupported condition, has been rectified.
3161604 (1114655)
- The missing PL/I include file, `mfpubspl .inc`, has been added to the product.
3161446 (1114489)
- A failure to create archive catalog records when using spool housekeeping with a user catalog has been corrected.
3161437 (1114485)
- A problem translating the received FTP file when the working files were under the control of Fileshare has been corrected.
3160811 (1114484)
- An issue that occurred when submitting JCL jobs using the CICS WRITE API and the Internal Reader has been fixed. The environment variable `ES_CAS_API=ON` is now set automatically in the process that submits the job.
3148986 (1114840)

Licensing

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- There is no longer an entry in the Uninstall column for licenses installed on remote machines.
3131570 (1112101)

Mainframe Access

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- The MFA server no longer omits the member separator record when performing a bulk member import for Endeavor.
3161685 (1114507)
- MFA DBCS calls now use an appropriate SBCS default.
3144286 (1113100)

Micro Focus Batch Scheduler Integration

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- When the Control-M autoEdit facility is used, the character "~" (tilde) is no longer replaced by a space.
3150693 (1113624)

Micro Focus Directory Server

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- Improved validation of data input to Enterprise Server Administration Web User Interface.
3163386 (1114693)

SQL: COBSQL

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- An unreadable copybook caused COBSQL to loop when stacked with the CP preprocessor. This has been fixed.
3156374 (1114103)

SQL: MBDT Utilities

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- A problem that prevented the SQLUTB utility from extracting views and tables from DB2 LUW has been fixed.
3163010 (1114645)
- When SQLUTB was run with input DD DUMMY, it returned an error message indicating that the input data had an LRECL of 0. This has been corrected so that SQLUTB now behaves as the IBM load utility, ignoring the DUMMY input LRECL.
3161957 (1114698)
- A problem that occurred when using SQLUTB LOAD without field specifications in the JCL has been fixed.
3157802 (1114247)

SQL: OpenESQL

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- The SQL Directives dialog box that appeared for .NET project types in the Visual Studio IDE erroneously omitted the SQL(HSFTRACE) option for DBMAN=ADO. This has been fixed.
3162428 (1114593)
- Data type information that was incorrectly mapped by the OpenESQL Assistant caused it to display column information improperly when using an IBM DB2 ADO.NET provider connected to a DB2 z/OS data source. This has been corrected.
3161285 (1114478)
- A problem that occurred when the SQL BEHAVIOR compiler directive option was set to UNOPTIMIZED caused the OpenESQL runtime to generate an RTS 114 error when the COBOL application exited. This has been fixed.
3158065 (1114288)
- A problem that caused HCOSS to incorrectly handle FETCH FIRST ROW ONLY when no literal row count was present has been fixed.
3151398 (1113734)
- A problem that caused the OpenESQL runtime to execute a core dump on exit when the MEMORY_STRATEGY tunable was set has been fixed.
3142107 (1113077)
- A program that contained zoned decimal host variables used in SQL statements and compiled using `charset(EBCDIC)` and `dialect(MF)` sometimes caused a run-time error. This has been corrected.
(635351)

SQL Option for DB2

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- A problem with SQL step processing related to CASE expression evaluation that caused the SQL COALESCE scalar function to return the wrong result has been fixed.
3160595 (1114413)
- Support has been added for the SOUNDEX() and DIFFERENCE() scalar functions.
3155733 (1114043)

Resolved Issues in Patch Update 1

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Compiler

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- When compiling for managed code, if a variable length group is passed as a parameter to another program, the generated code was attempting to evaluate the current length of that variable length group. In native code, this evaluation only happens in the case where the OCCURS DEPENDING ON item is not itself part of the variable length group. This difference meant that in some cases a null pointer exception could occur in managed code, whereas native code executed without error. Managed code behavior has now been modified to be compatible with that of native code.

3154134 (1113891)

Cobdebug

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- It is now possible to debug a minidump from an Enterprise Server environment, in Visual Studio.

3142342 (1113099)

Codeset Support

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- Conversions from ASCII to EBCDIC, with null data, no longer get corrupted.

3155499 (1114114)

Data Tools

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- The cursor is now visible in the free-text editing pane when the pane has focus whether it is in Shared or Exclusive mode. The cursor position will start counting from column 1, rather than column 0 as well.
3154869 (1113954)

Documentation

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- The ADO.NET Connection Editor documentation has been clarified to explain that the ADO.NET connection editor works in combinations of 32- or 64-bit and framework 2.0, 3.0, 3.5 or framework 4.0, 4.5, 4.6. No matter which mode you work in, you must have the 32-bit framework 4.0, 4.5, 4.6 version of the provider you want to work with for your connection.
(634352)

Enterprise Server

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- A copybook required to build the printer exit was missing. This has now been fixed.
3159328 (1114322)
- With `ES_XA_NB_RETRIES=-1` specified, Enterprise Server would leak SHM if the connection to the XA RM was lost.
3158011 (1114246)
- Within the DB2 LUW switch module, issues associated with `ESLOGGING xa_open` string parameter have been addressed, and better handling of impersonated userid when using `USERP` has been provided.
3156639 (1114209)
- The `INQUIRE TSQUEUE` and `TSQNAME` now read direct for "non-browse" `INQUIRE` requests. Support for numitems has also been enabled.
3156161 (1114077)
- CICS Web service response messages larger than 64Kb are now returned correctly.
3155900 (1114044)
- To fix a problem with the maximum length for a query string being too small, it has been increased from 255 to 1024.
3155607 (1114025)
- Previously, the transformation of data from COBOL to JSON in CICS Web Services would not collapse whitespace even when `CHAR-WHITESPACE=COLLAPSE` was used for the generation of the `wsbind` file.
3154716 (1113953)
- An issue where a region would take too long to start up and eventually fail to start has been resolved.
3153774 (1113875)
- When Data File Editor accesses files managed by an Enterprise Server region, users now need `UPDATE` permissions in order to access the file exclusively.
3152798 (1113831)
- When connecting a TN3270 to an Enterprise Server instance, if the connection was lost, the printer could not be reconnected. Now you can navigate back to `ESMAC`, then `Clients`, and stop the printer in order to reconnect it after a loss of the connection.
3142113 (1112847)

- A problem with ASCII/EBCDIC conversion on a SEND/RECEIVE map that occurred when a terminal was defined as having PROGSYMBOLS(yes) has been fixed.
3151738 (1113675)
- When recycling SEPs in a busy JES system, jobs that have not run yet are now managed correctly.
3120670 (1111235)
- Formatting a trace that was captured during the period when the clocks went back an hour will now format the entire trace. Previously, the formatter would exit at the point when the clocks changed.
2876312 (1106883)

Enterprise Server Security

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- Enterprise Server's optional LDAP-based security (External Security Facility with MLDAP ESM Module) now supports the Microsoft "group" LDAP class, as used by Active Directory and AD/LDS. Consult the online product Help or ask Micro Focus Customer Care for additional information.
3109881 (1110084)

File Handling

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- You will no longer receive an RTS114 error when a failing primary node is restarted and attempts to re-join the HA group (as a standby node), as long as it closed all files successfully before the failure.
3159872 (1114360)

IMS Support

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- The PCB segment level after an unsuccessful GNP call (status GE) did not always match that of IBM IMS.
3156252 (1114067)
- To correct a problem with routing MQ-IMS Bridge output messages, these messages can now be routed to a reply queue based on LTERM, as configured via the new OTMA destination-descriptors environment variable (ES_IMS_OTMA_DEST).
3154367 (1113959)
- A problem that sometimes occurred when a GN or GHN that was either completely or partially unsuccessful caused the return of an incorrect segment level in the PCB feedback, depending on call SSAs and prior DB position. This has been fixed.
3153595 (1113843)
- A problem when using a virtual logical child (VLC) with multiple defined sequence fields sometimes produced incorrect results when using those fields in a segment search argument (SSA) boolean operation. This has been fixed.
3151898 (1113783)

JCL Support

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- A performance improvement in the job recovery processing has been made by removing some additional unrequired reading of spool job records.
3156375 (1114147)

- MFFTP now encloses anything that follows a 'cd' command with double quotes, unless the quotes are already present.
3154403 (1113925)
- To correct a problem with routing MQ-IMS Bridge output messages, these messages can now be routed to a reply queue based on LTERM, as configured via the new OTMA destination-descriptors environment variable (ES_IMS_OTMA_DEST).
3154367 (1113959)
- If the association of an XA Switch module with a unit of work fails, DSNRLI now reports appropriate error codes for functions that require the association.
3151780 (1113682)
- A security PHYSFILE check is now only performed when the physical file or directory does not exist.
3150380 (1114031)
- A new option for MF_UCC11 processing is now available. Use MF_UCC11_DYNCLEAN=N to prevent the cleaning of dynamically allocated datasets when restarting a job.
3149990 (1113815)
- Allocation Overrides can be applied to the new path and name of a physical dataset when the IDCAMS ALTER NEWNAME command is used and the environment variable MF_PCRENAME_LAX=D is set.
3149083 (1113510)
- A 'Catalog Duplicate Exists' error, reported when creating a new GDG bias and the GDG Model resides in a user catalog, has been corrected.
3148698 (1113498)
- A fault, reported as 'not found' or 'attribute mismatch', when using ES_ALLOC_EXPAND=N and opening a VSAM file, has been corrected.
3144287 (1113057)

Licensing

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- There is no longer an entry in the Uninstall column for licenses installed on remote machines.
3131570 (1112101)

Mainframe Access

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- MFA no longer shuts itself down after session time-out because of a system wait.
3158778 (1114316)
- If an external job gets an enqueue on an Endeavor resource while MFA is using it, then MFA no longer receives multiple abends and halts when the resource is released.
3149517 (1113490)
- If the JOBNAM XML parameter had been specified for an application server (such as Endeavor or Changeman), then the server failed to start up. You received the following error message: "We were unable to find the requested Application Server XXXXXXXX in the XML configuration."
(634734)
- MFDAS no longer crashes when parameters above 256 length are specified.
(633925)

Mainframe Access Server (z/Server)

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- Application Workflow Manager tools of type "Execute ISPF Command" within the ISPF function package can make use of the ISPF table TAUTOJOB if the tool submits more than one job via the 'Tool Job' method or if the tool submits a job via the 'Tool Job' method and is used in a MassProcessing action.
3151143 (1113669)

Micro Focus Batch Scheduler Integration

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- %%\$CALCDTE using +/-Mnnn (Month quantity) is now implemented when MFBSI Control-M is enabled.

The resulting calculated date for the added/subtracted month(s) will be validated, and if incorrect, will be set to the first (previous) valid date.

Examples:

- 2016.03.30 -1M will result in 2016.02.29

- 2018.08.31 +1M will result in 2018.09.30

3158927 (1114285)

- When using CASAPI, JobNumber for JOBnnnnnnn.log is no longer truncated (to 5 chars).

3153191 (1113827)

- When Control-M AutoEdit is enabled, %%LIBSYM and %%GLOBAL data will now substitute Control-M variables contained in variable "value".

For example:

%%VarName2=%%VarName1 - VarName1 is substituted (if defined) and then assigned to VarName2.

%%JOBNAME CTM system variable is now automatically available in the Control-M variables pool.

3152985 (1114098)

- When the Control-M autoEdit facility is used, the character "~" (tilde) is no longer replaced by a space.

3150693 (1113624)

Micro Focus Directory Server

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- Non-xml export of the regions now works as expected in MFDS.

(634273)

- Enterprise Server Administration Web UI would sometimes display the successful logon splash screen instead of a logon error message.

(634298)

- A new field, "**Server CA Root Certificate**", is available in the **Communications Process Control Channel** page (id: c400). The value specified here is used unless the MFDS_server_CAROOT environment variable was specified as it takes precedence. You must specify the server CA root certificate if the Communications Process Control Channel is SSL/TLS-enabled and if communications with the MFDS process are required such as to respond to keepalive and any other administration control requests.

(633705)

- URLs to SSL-enabled MFCS Control Channel addresses displayed in the Enterprise Server Administration HTML UI now use an `https` prefix.

(633706)

- If the Enterprise Server Administration Web UI is hosted in a Docker container, the displayed hyperlinks to reach the Micro Focus Communications Process web pages can now be configured to use an address which is valid outside the container.

(634543)

Micro Focus Server Administrator (GUI)

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- If Enterprise Server Administration was set to restricted access, some MQ listener configuration pages would not be displayed.

3152874 (1113782)

- The Enterprise Server Administration HTML UI no longer displays the IP address but only the host name used by the Web administration server process.

3140974 (1112912)

Run-Time System

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- The use of the P(COBSQL) Compiler directive in a Visual Studio or Eclipse project no longer causes the IDE to crash intermittently at termination.

3133807 (1112077)

Setup

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- The Data File Tools AddPack can now be installed alongside Enterprise Server.

3158290 (1114230)

- The installer error handling has been extended to cater for certain conditions.

3152023 (1113706)

SQL: DB2 ECM

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- When a DBCS database is used with CHARSET(EBCDIC), the data of a char field following a varchar field will no longer be corrupted.

3155499 (1114065)

SQL: MBDT Utilities

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- There is no longer a problem using synonyms to load data into the underlying tables for SQL Server with SQLUTB. A problem with truncating tables via synonyms in SQL Server has been fixed for SQLUTB.

3152952 (1113855)

SQL: OpenESQL

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- SQL FETCH ABSOLUTE CURSOR was not returning rows. A COMP position value is now supported in the SQL FETCH ABSOLUTE/RELATIVE statement and it behaves as expected.

3153738 (1113903)

- A problem that prevented HCOSS from correctly handling IS [NOT] DISTINCT predicates has been fixed.

3152630 (1113764)

SQL Option for DB2

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- A problem that caused a buffer overflow when processing a very large UPDATE WHERE CURRENT OF in the XDB Link has been resolved.

3151725 (1113807)

- A problem with XUTLB (XDB emulation of DSNUTILB) erroneously reporting an invalid isolation level has been resolved.

3134586 (1112183)

- A problem with join optimization using differing lengths of DECIMAL data has been resolved.

3131870 (1111903)

- A problem with a scalar query using a DATETIME value returning an error indicating that the value was invalid has been resolved.

3129637 (1111872)

- A problem with Query Descriptor mapping when performing XDB Server to Server connectivity has been fixed.

3112564 (1110514)

- A problem with an uninitialized stack space causing a thread abend in XDB SQLDA code page processing has been fixed.

2990360 (1108708)

XML syntax support runtime

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- XMLPARSE did not run correctly in multi-threaded environments and could sporadically cause memory corruption.

3114260 (1110227)

Other Issues Resolved in this Release

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This section lists other issues that have been fixed in this Patch Update.

- [Other Resolved Issues in This Patch Update](#)
- [Other Resolved Issues in Patch Update 10](#)
- [Other Resolved Issues in Patch Update 9](#)
- [Other Resolved Issues in Patch Update 8](#)
- [Other Resolved Issues in Patch Update 7](#)
- [Other Resolved Issues in Patch Update 6](#)
- [Other Resolved Issues in Patch Update 5](#)
- [Other Resolved Issues in Patch Update 4](#)
- [Other Resolved Issues in Patch Update 3](#)
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- [Other Resolved Issues in Patch Update 1](#)

Other Resolved Issues in This Patch Update

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There are no other resolved issues in this Patch Update.

Other Resolved Issues in Patch Update 10

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There are no other resolved issues in this Patch Update.

Other Resolved Issues in Patch Update 9

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There are no other resolved issues in this Patch Update.

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There are no other resolved issues in this Patch Update.

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There are no other resolved issues in this Patch Update.

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There are no other resolved issues in this Patch Update.

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There are no other resolved issues in this Patch Update.

Other Resolved Issues in Patch Update 4

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There are no other resolved issues in this Patch Update.

Other Resolved Issues in Patch Update 3

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The numbers listed are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- 3159358 (1114300)
- 3158897 (1114330)
- 3167573 (1115008)
- 3166707 (1114940)
- 3159456 (1114310)

Other Resolved Issues in Patch Update 2

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The numbers listed are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- 2886632 (1109810)
- 2884759 (1107992)
- 2867549 (1105741)
- 2990395 (1109943)
- 2875997 (1106933)

Other Resolved Issues in Patch Update 1

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The numbers listed are the Support Incident Numbers followed by the Reported Problem Incident (RPI) number (in parentheses).

- 3158745 (1114273)
- 3160774 (1114530)
- 3158079 (1114213)

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