



Micro Focus Enterprise Server 8.0 Patch Update 1

[Readme](#)

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Readme for Enterprise Server 8.0 Patch Update 1

This readme contains information on changes in 8.0 Patch Update 1.

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- [Known Issues and Restrictions](#)
- [New Features](#)
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Note:

- Enterprise Developer supports AdoptOpenJDK's OpenJDK 8 with Hotspot. See your product Help for more information.
- You can check the *Enterprise Developer* section of the [Micro Focus Customer Support Documentation Web site](#) for any documentation updates. You can also consult the *Cumulative Release Notes* document, accessible from that Web page, for a summary of the changes that have been delivered in successive releases of this product.
- This product includes OpenSSL version 1.1.1n-mf6 (modified).

Installation Notes

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This section contains information on installing this update.

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

Before Installing

See the *Supported Operating Systems and Third-party Software* topic in your product documentation for a complete list of supported platforms. In addition:

- Support for development and deployment on Windows 7 has been discontinued.
- Support for development on Windows 8 and Windows Server 2012 has been discontinued. These platforms are still supported for deployment. Windows 8.1 and Windows Server 2012 R2 are supported.
- The Server Core form of Windows Server 2019 is not supported.
- Mainframe Access Server Hardware Requirements: IBM mainframe model zEC12 or later is required for installing and using MFA Server. If your hardware does not meet these requirements please contact Micro Focus support.

Minimum product version requirement on Windows:

Before installing this Patch Update on Windows, you must have Enterprise Server 8.0 installed.

To find out which version you have installed:

1. In Windows, open the **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.

Minimum product version requirement on UNIX:

Before installing this Patch Update on UNIX, you must have Enterprise Server 8.0 installed.

Installing

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.

To install this Patch Update on UNIX:



Note: This Patch Update replaces the existing installation of:

- Enterprise Server 8.0.

1. Download this Patch Update to your machine.
2. Set COBDIR to the location of the installed product:

```
COBDIR=[<install-dir>]
```

3. Give execute permissions to the setup file:

```
chmod +x setupfile
```

4. Run the installer with superuser permissions:

```
./setupfile
```

5. To set up your product, execute:

```
. $COBDIR/bin/cobsetenv
```

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

```
cob -Version
```



Note: When installing on UNIX, the MFDS and SSL configuration files are stored under `/opt/microfocus/config` and symbolically linked back to the installation location. When Patch Updates are installed to the same location, the configuration is now preserved.

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 Server 8.0.

- [New Features Added in this Patch Update](#)

New Features Added in this Patch Update

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This Patch Update includes the following new features:

- On Windows, a new Windows service, **Micro Focus HA Cloud**, enables you to start the HACloud session server from the Windows Management Console. Before you can use the service, you need to

deploy it with the `hacloudserviceinstall` script available from an Enterprise Developer command prompt.

Significant Changes in Behavior or Usage

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This section describes significant changes in behavior or usage since the main release of Enterprise Server 8.0. These changes could potentially affect the behavior of existing applications or impact the way the tools are used.

- [Significant Changes in Behavior or Usage in this Patch Update](#)

Significant Changes in Behavior or Usage in this Patch Update

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The numbers that follow each issue are the Support Case Number followed by the defect number (in parentheses).

- [Documentation](#)
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Documentation

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- FIXEDOVERFLOW conditions are now implemented and will occur when detected.
02163371 (203207)

Enterprise Server

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- To stop a JES Initiator of the same class running in a single running region, you can now delete it from the JES > Configuration page in ESCWA.
02308861 (304013)
- In ESCWA, the **Group List** field has been added to the SIT resource page. This can be used to specify up to four Startup List matching patterns so that the SIT can use more than one Startup List. This means the enterprise server region will have all the active resources for each Startup Lists specified or matched.
(276001)
- A new configuration property has been added to ESCWA to enable the default language the UI displays to be overridden from the user's browser locale.
02227239 02307446 (260128)
- ESCWA now supports Expiration Dates for Catalog DCB.
02159515 (202201)

- ESCWA now validates the TLS properties to help prevent errors on entry.



Note: If ESCWA has an invalid TLS configuration then it will fall back to starting without TLS enabled.

01983736 (203178)

- ESCWA will now audit the user on failed logon requests.

02299933 (273015)

- An issue with not being able to update or navigate the ESCWA UO though the job output in the spool while it is still running has been resolved.

02322494 (286142)

- In ESCWA, a Stop for IMS MPRs, JES Initiators, and JES Printers now operates correctly.

02311796 (286178)

- When a CICS abend occurs, the 4 letter abend code now appears after the Transaction ID in HSF records. There has been no change in behavior in the case of an RTS abend, where the transaction name followed by ABEND still appears.

(246037)

IMS Support

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- A performance optimization of IMS Database Utility (IMSDBU) pointer update function using SEGEXIT routine support has been applied.

02193900 (258084)

JCL Support

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- A problem with the use of ACR settings when restarting a job has been corrected. Use of 'NN' now does NOT use step COND codes from a previous run. Use of 'Y' causes COND codes from the previous job run to be loaded and used in COND tests. Use of 'NN' causes all steps to be marked as not executed, which means that tests against those step's COND codes evaluate to FALSE. Before this correction, they were evaluated against the state of the previous run state.

02225031 (246079)

- When a dataset is required by MFFTP to be sent (put) or received (get), then MFFTP issues a dataset lock that remains in effect until the end of the step. The location of the physical files used by MFFTP are also validated against the PHYSFILE rules (if implemented). This access validation could cause security errors if access is not allowed to the location of the FTP input and output file and might require that the location be changed. This is usually the default allocation location, but may also be specified by MFFTP_TEMP_DIR, or by adjusting the PHYSFILE rules to accommodate the location.

02210700 (244030)

- MFFTP has been enhanced to pass relevant file transfer information for FTP operations such as PUT, GET, and DEL, to a user exit defined by the new environment variable, MFFTPXIT. To enable the exit, set MFFTPXIT to a user-exit program file, for example, the provided MFFTPXIT.cbl sample file. A list of valid parameters is in the provided mfftpxit.cpy copybook. When the user exit is enabled and an FTP step returns a non-zero code, a copy of the *.op FTP output file is created using the *.out extension in either the defined MFALLOCC_LOC or MFFTP_TEMP_DIR location. Use the *.out file to determine the cause of FTP operation failures.

02287628 (259117)

Micro Focus Directory Server

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- MF Directory Server now restricts access to enterprise server regions that a signed on user is not authorized to view.
02305916 (285169)
- To query Enterprise Server security configuration information (details of configured external Security Managers and so forth) from the MF Directory Server when access is restricted, the authorized Enterprise Server user must have at least "Read" permission for the "Enterprise Server Administration" resource class "User Administration" entity.
(285199)

PL/I Support

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- The precision of the result for the following PL/I built-in functions is now determined by the `-bifprec` compiler option:
INDEX
LENGTH
MAXLENGT
LINENO
PAGENO
SEARCH
SEARCHR
SIGN
TALLY
VERIFY
VERIFYR
(258073)
- Data exception 8097 now occurs when the sign nibble of a fixed decimal value does not contain a valid sign 0x0A thru 0x0F during an arithmetic operation, conversion, or assignment.
02198788 (222107)

Run-time System

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- When CTF tracing is in effect and you call `fork()` without an `exec()`, the child process' CTF events now have the correct value for `$(PROCESS)`.
(293004)
- If an error occurs during thread clean-up, the runtime will now attempt thread clean-up again. If it fails for a second time the runtime will call `_exit()` to terminate the process immediately.
02286519 (258130)

SQL: OpenESQL

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- ODBC support has been added for .NET Core 3.1 (6.0pu19, 7.0pu9) and .NET 6 (8.0pu1).
02190105 (223007)

Visual Studio Code

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- The COBOL Extension for Visual Studio Code Language Server has been updated to enable use of the COBOL `defaultDirectives` setting to specify additional directives that should be used when the Language Server background parses COBOL code.
02344657 (301035)

Resolved Issues

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This section lists issues that have been fixed since the main release of Enterprise Server 8.0.

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Resolved Issues in this Patch Update

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Assembler Support

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- In previous releases, the MFMODGEN utility automatically converted filenames to uppercase on both Linux and Windows platforms. In this release, that behavior has been modified on Linux to leave filenames in their original state.
02207362 (237045)

Codeset Support

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- The DISJOINING clause now works as expected when a DBCS hyphen is specified as part of the prefix or suffix.
(296145)

Communications Server

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- Enterprise Server now supports stopping and restarting a stopped listener even if there are still conversations using that listener. Previously a listener could be stopped while there were open conversations, but not restarted until those conversations ended; this restriction has been removed. Note: The open conversations will continue to be usable.
(244018)
- Added additional call to the connector with `THREAD_ENDING` on the way out of `CallCASService`
02290195 (273037)

Documentation

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- The documentation has been updated to state the correct character length for an `mfsort` command taken from a file (using `mfsort take <filename>`). The command length limit is 4095 characters.
00367383 (13397)
- Certain parameters of the `OUTFIL` control statement for both `DFSORT` and `SYNCSORT` emulation are only supported when running an `MFJSORT`. These parameters have been listed in the *Limitations* section for the statement topics, within the documentation.
00366700 (22263)
- Hyperlinks to the *Examples and Utilities* page within the documentation have been fixed.
(272064)
- Information on using federation with ESM Modules has been updated. See *What Federation Does* in your product Help for more information.
(312071)
- The product documentation now includes information about the `CICSECM SPFAULT` option.
01818375 (132019)
- The Micro Focus .NET Core projects have been renamed to .NET in release 8.0 Patch Update 1.
02344640 (296100)

Enterprise Server

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- The value from `ES_ESMAC_DISP_MAX_OVERRIDE` is now correctly taken in ESMAC or the ESCWA catalog pages when viewing the lines in a cataloged dataset.
02214714 (278011)
- The JSON ESMAC spool details module now reports the UUID of the PAC member which processed a batch job back to ESCWA.
(293036)
- Added support for passing advanced job restart parameters through the Spool Job View page.
(273030)
- An issue where the number of lines displayed in ESCWA and ESMAC, as part of the catalog file display, was set to the value of `ES_ESMAC_DISP_MAX_OVERRIDE` or the default of 10000. This has been fixed.
02211348 02214714 (245031)
- In ESCWA, the limit of jobs that can be deleted from the spool has been increased to 100000.
02332690 (291038)

- A 9/139 error was displayed by the Enterprise Server Common Web Administration (ESCWA) interface when trying to view contents of ESDS files processed by the Micro Focus Database File Handler (MFDBFH). This has been fixed.
02338090 (299022)
- Enterprise Server now supports up to 4 startup lists with the new GRPLIST parameter on the SIT. GRPLIST is the same parameter as on the mainframe GRPLIST defined in the JCL to startup CICS. See IBM documentation for more information on GRPLIST.
02200636 (272061)
- The RecoverLostUUID action has been added to the caspac utility. This enables you to recover all enterprise server regions on a specified host-name that might have lost its connection to the PSOR, or that has been killed by the user. See *caspac* in your product Help for more information.
(259153)
- When using dynamic XA and installing a new RM, the XA Open call was issued incorrectly for a batch initiator at install time. This has been fixed.
02175396 (211035)
- An invalid EIBRESP returned when using WRITEQ TS with the rewrite option has been fixed.
02335563 (296017)
- A loop could occur when using wildcards in GRPLIST. This has been fixed.
02200636 (306043)
- A memory corruption sometimes resulted when the threshold thread attempted to kill a process that had a memory lock. This has been fixed.
02343156 02328521 (308010)
- When using PHASEIN or NEWCOPY in a PAC, the console message always said "newcopy" with no distinction. Now the message has been change to either say "newcopy" or "phasein" as appropriate.
02290386 02315642 (258246)
- MOD files can now be deployed in a PAC environment using CASPAC and NEWCOPY.
02290386 (271065)
- The displayed return code has been extended to five digits for message CASSI9038E.
02290153 (276011)
- Temporary storage queues of type "Process Local" will now work in AMODE applications.
02341118 (296055)
- Values for time fields in HSF records (API, IMS, SQL, MQ, and EZA) could be incorrect (very large) if the transaction was scheduled for termination (due to exceeding a threshold) in the middle of an API and that API exited prior to the actual termination.
02296327 (264080)
- EXEC CICS asynchronous API commands are now supported. See IBM documentation for more information.
02112217 (189053)
- Under certain circumstance and incorrect invoking program name could be passed on a distributed program link. This has been fixed.
02238958 (253026)
- If EXEC CICS LINK supplied an alternative transaction ID, the actual EIBTRNID was not being restored. This has been fixed.
02272951 (259062)
- Fixed issues with CICS NEWCOPY and Phase In when used in a PAC environment.
(259078)

- Added a new Retrieve action to the `caspac` utility which enables you to retrieve binaries loaded on an SOR. See `caspac` in your product Help for more information.
(284104)
- Replaced ESF Admin API LISTRESOURCE with ESF Auth for querying MQ Security Resources.
02154003 (202145)
- A shared memory corruption issue occurred when reinstalling a TCPIP Service or URIMAP. This has been fixed.
(204047)
- Updated XID generation to support UTF-8 code pages with PostgreSQL.
02296723 (273006)
- Fixed a memory corruption that occurred when logging in-doubt XA transactions in the PAC.
02304565 02319810 (284038)
- XA switch modules now prevent recovery actions if a connection is not opened.
02228951 (260098)
- XA switch modules that use OpenESQL now work correctly when the applications in Batch transactions are compiled with XAID directive option.
02327393 (293012)
- Enterprise server regions that previously ran on 7.0 PU6 might not start. If this happens, the system directory needs to be cleared.
(258190)
- Switching the active HSF file twice in quick succession can result in an RTS 114 in castrc. Modifications have been made to reduce the risk of this occurring. If this scenario does occur, then console message CASTR0001W will be written and a dump taken which will capture more information of the issue.
02258416 (259093)
- The 64 bit product broke the load of `dfhusync` when it was taken from a folder other than the product folder. This has been fixed.
02322283 (284094)
- Under some circumstances, when multiple NEWCOPY requests for the same program were issued at the same time against different regions of the same PAC, an AB/BA issue could occur. This has been fixed.
02315642 (285043)
- When a SEP is marked dirty, it is monitored and if it does not terminate correctly in 2 minutes, the SEP will be automatically killed.
02319810 (285098)
- When using CASPAC RECOVERUUID the PacNbRegions counter could go negative. This has been fixed.
02320097 (286145)
- MQ security was being disabled when Allow unknown resources was enabled. This has been fixed.
02328521 (288019)
- If an enterprise server region in a PAC failed to shutdown properly after the PacNbRegions had been decremented, then on restart the recovery process might be run again and the PacNbRegions decremented. This has been fixed.
02329602 (293041)
- Security checks are now supported for Dynamic Debugging operations. Checks are carried out against the `casdebug` entry under the OPERCMDS resource class.
02337725 (296095)

- Fixed a local memory leak when logging XA transactions in a PAC.
02319834 (285102)
- All authentication checks for Dynamic Debugging operations are now skipped if `casdebug` entry is not available under the OPERCMDS security resource.
02367824 (314007)
- Diagnostic messages were added when Redis returns 109 (`record_locked`) linked to a CASSI9031S. More retry attempts are made and messages are displayed in the console to indicate these.
02213719 (246089)
- Stopping an active debug session in ESCWA does not end the debugging process in the IDE.
02135527 (258054)
- Enterprise Server security did not always assign supplemental groups to users in certain configurations with multiple Security Managers, Federation enabled, and All Groups enabled. This has been fixed.
02145921 (202146)
- Implemented support for advanced job restart parameters on the JES job pages.
(271045)
- An issue where Max tasks in ESCWA was always listed as 0 has been fixed.
(284003)
- Missing `EsmacResourceList` schema was added to the ESCWA interactive API library version 2.
(286051)
- In ESCWA, accessing the Catalog file data has been improved by modifying the page layout.
02154749 (202107)
- In ESCWA on the Catalog page, you can now use the Line Wrap switch to toggle line wrapping for long lines.
02289615 (258187)
- In ESCWA, high task rates would returned as 0 from ESCWA API V2. This has been fixed.
(259159)
- ESCWA now reports the UUID of the PAC member which processes a batch job.
(289008)
- In ESCWA, the IMS Transactions page now has additional columns for Class, Priority, and Process Limit.
02228107 (252019)
- featureIn ESCWA, some fields on the CICS DCT definition page have been fixed.
02340251 (296056)
- ESCWA was not able to bind to a hostname containing the `w` character. This has been fixed.
(296023)
- Reduced the number of password save prompts encountered when navigating ESCWA using the Firefox Web browser.
02324422 (306001)

File Handling

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- A point-in-time recovery sometimes resulted in a file being closed incorrectly. This is now fixed.
02361354 (306066)
- A rare memory error in the File Handler relating to `FS_CHECK_FILE_EXIST` has been fixed.
02202129 (296094)

- Variable-length files are now transmitting via SFTP as expected. Previously, the flag that disables EOL processing was incorrectly being unset.
02258294 (255017)
- During a SORT, SUM now correctly works with MF_CHARSET=EBCDIC.
01909282 02349849 (124117)
- An issue while sorting very large line-sequential files using a COBOL SORT has been fixed.
02316855 (286123)

IMS Support

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- A problem that prevented CASDBC from terminating properly on an initialization error has been fixed. Applications requesting data are now sent an error when CASDBC has been terminated.
(245082)
- A performance optimization that affects DL/I calls that specify multiple SSAs with boolean operations on key fields has been applied.
02230458 (258052)
- A problem that delayed transactions invoked via MQ-IMS Bridge when the MQ request queue was nearly full has been fixed. In addition, sporadic transaction-not-found errors no longer occur.
02268086 (258040)
- A problem that prevented the MOD name of the message from being passed to the receiving transaction on a transaction switch even when that MOD name was spaces has been corrected.
02268997 (259060)
- A problem that caused a Resource Manager transaction start error on an application rollback call has been fixed.
02317315 02363957 (285051)
- A database no longer fails to close in certain situations when work has been done after a QC.
02030160 (166042)
- A problem that caused a BMP GU to fail to return data in the I/O area has been fixed.
02315918 (284087)
- A problem that occurred when multiple XAs were used in IMS BMP programs prevented changes from being committed to each XA separately, even when a 2-phase commit was requested. This has now been corrected.
02287414 (260260)
- The IMS /REFRESH PROGRAM command now forces a QC for the next GU from scheduled MPPs allowing MPRs to cancel loaded executable modules.
(303085)
- IMS intermittently failed to dispatch new work. This has been fixed.
(333001)
- The ESCWA/ESMAC STOP command for an IMS MPR now stops a transaction scheduled in that MPR that is Waiting for Input (WFI).
02206172 (245095)
- A problem that caused IMS TM to fail intermittently with an RTS 114 error when an MPR stopped and the notification to TM was delayed has been fixed.
02100445 (254018)
- A problem with processing MID names referenced on the LPAGE(s) of the MOD prevented an output MID from being created for each one found. This has been corrected.

JCL Support

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- A problem with selecting the correct (0) or negative GDG version following addition of new versions has been fixed.
02323462 (284106)
- When using Enterprise Server JCL in conjunction with fileshare, the associated index file for an ESDS data set was sometimes left intact when the data set was deleted. This has been corrected.
02042689 02061211 (167050)
- Attempting to define a GDG file that already existed returned an error code 8 and occasionally modified the file. To fix this, a code 8 is now generated followed by the 'Function terminated' message and condition code 12, and the file is never modified.
02235379 (245123)
- To fix a problem that sometimes occurred when either the IMS MPR process shut down or when a CICS SSTM region shut down and ES_SSTM_JOB_FLUSH_ACTIVE=Y, the lex files for the SSTM job are now removed.
02322067 (285165)
- A fault with the Auto-Adjust option of the Advanced Restart Functionality checking of dataset disposition settings caused datasets that did not have an initial disposition specified to be missed. This has been corrected.
02318857 (286076)
- When listing catalog entries using the TSO command LISTCAT, the LRECL value was truncated to 4 digits and the high order value was not displayed. This has been corrected and the LRECL value is not displayed using 5 digits.
02331981 (296001)
- A fault that caused a new GDG version to be incorrectly removed at the end of the step that created it has been corrected.
02344573 02342424 02354398 (301037)
- Passing a REXX command to IKJEFT01 with trailing spaces before a comma sometimes caused the comma to be considered an argument. This is now fixed.
02227769 (244099)
- The IEBDG utility had the potential to overwrite existing records even though DISP=MOD was specified. This has now been corrected.
(246112)
- MFFTP now honors the SENDSITE command to emulate mainframe behavior using two new environment variables: MFFTP_SENDSITE=Y|N (default is N) and MFFTP_QUOTE_SITE=Y|N (default is Y). A SITE command is issued before a PUT or an MPUT command when MFFTP_SENDSITE is set to Y. A quote subcommand is always prepended to the site command unless MFFTP_QUOTE_SITE is set to N. Linux only.
02191751 (221079)
- The START operation on a dummy dataset was not returning FS=23, which is required to emulate mainframe behavior. This has been fixed.
02261850 (258069)
- The FTP issue that sometimes occurred while performing a GET to a GDG dataset has been fixed.
02298846 (286031)
- An issue with the MFFTP MPUT command caused it to search beyond the scope of the LCD DSname. This has been corrected.

02333250 (296003)

- A fault that left an enqueue when a dynamic allocation using SVC99 failed has been corrected.

02062142 (187015)

- When an IMS MPR process was killed using either the region SEPs STOP button or the casout option, the SSTM job for that MPR was not marked as completed. This has been fixed.

00374551 (285013)

- A problem that caused IEBGENER to issue an error when the SYSUT1 was defined as Dummy has been fixed.

02200488 (239023)

Mainframe Access

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- MFDAS on UNIX now supports the /NUMREC parameter.

(260140)

- MFDAS UNIX used incorrect URL for the binder command. This has been fixed.

(258129)

- MFDAS UNIX submit on a PDS dataset no longer fails looking for a file.

(258149)

- MFAIMBEDDEDHEX is now supported by MFDAS on the UNIX platform.

(258169)

- MFDAS UNIX STATUS issue fixed with some phases causing JSON parse error.

(260136)

- MFDAS UNIX was missing the GETSYSENQI command. This has been fixed.

(260145)

- Export to VB datasets now correctly sends VRECGEN format.

(260257)

- MFDAS UNIX now uses codepage 037 by default.

(264089)

- On UNIX, the MFDAS list `enqueue` call now correctly parses the server return.

(267009)

- MFDAS UNIX submit now returns JOBID in the correct format.

(271026)

- MFDAS UNIX `secchk` command now returns the time difference relative to the mainframe time, the same as Windows.

(272002)

- On UNIX, MFDAS CATDCB defaults are now correct.

(258171)

- MFDAS help now correctly returns code 100.

(259143)

- Syncmon2 now supports 10 character Panvalet member names.

02301547 (301002)

- The FINDMEM function will now permit more than 16 libraries to be searched.

00402212 (57347)

- HTTP URIs with encoded characters (%xx) will now be correctly decoded and the specified code page honoured.
OCTCR50A259108 (258138)
- The "systemenqueueinformation" function has been added to Web support.
OCTCR50A260145 (258164)
- In a CATDCB function, a problem checking the access rights of a data set is now fixed. In addition, if read access is not allowed, the transaction will no longer be closed, "Security failure".
02269074 (285035)

Micro Focus Batch Scheduler Integration

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- Using the "SHOW-SUBMIT-JCL=Y[es]" option in `mfbsi.cfg`, the full JCL (after substitution and including //SYSIN DD * data) submitted to Enterprise Server is shown in the mfbsijcl output log.
(297034)
- When a stop request was issued against a batch region acting in a PAC, the region terminated after all jobs in execution ended. `Mfbsijcl` instances for those jobs immediately reacted to the stop request and ended with return code 228. This has been corrected. `Mfbsijcl` now correctly waits for the termination of the jobs in a region in stopping mode, and returns the concluded return codes to the scheduler.
02229974 (245145)

Micro Focus Directory Server

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- A non-TLS thread of the MFDS process could be invoked to clear user information in the TLS thread. This has been fixed.
02286784 (260113)
- A new environment variable, `ES_MFDS_ADDRESS`, has been added in order to parse the -m address parameter in `casstart`. See General Enterprise Server Environment Variables in your product Help for more information.
02250159 (246176)
- The `casstart /s` option incorrectly copied the start-type parameter. This has been fixed
02250159 (244185)
- An issue that could cause MFDS to crash when starting multiple enterprise server regions simultaneously has been fixed.
02310876 (286081)
- In ESCWA, modifications have been made to MQ Listeners, JES Initiators, JES Printers, and IMS MPRs so that they are persisted across MFDS restarts.
02341059 (297067)

Micro Focus License Administration

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- Some libraries have been updated to address current known vulnerabilities.
(295042)
- Some libraries have been updated to fix current known vulnerabilities.
(295068)

- Some libraries have been updated to fix current known vulnerabilities.
(309006)

PL/I Support

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- PL/I triggered a FIXEDOVERFLOW when a FIXED DECIMAL target was assigned for the ADD, SUBTRACT, or DIVIDE built-in functions that specified an even precision for the optional third parameter. This behavior did not match mainframe behavior, and has now been fixed.
02163371 (306065)
- A problem that occurred when "array of fixed bin unsigned (8)" was passed as an argument to entry has been fixed.
02267392 (259072)
- The compiler cross-reference (-xref) listing now ensures alignment of line/fileid, nesting, and source margins in the listing file.
02159460 (285036)
- PL/I built-in functions JSONPUTVALUE and JSONPUTMEMBER wrongly added structure-member closing tags. This has been corrected.
02298471 (267008)
- The PL/I macro -tagmin option now covers both built-ins and procedures.
02310267 (284005)
- The incorrect result returned by the LENGTH built-in function when used with the TRIM built-in has been fixed. For example: `picl = LENGTH(TRIM(string1))`; Where `picl` is any PICTURED variable. `string1` is any CHAR or CHAR VARYING string.
02291604 (264004)
- PL/I nested macro procedure in a built-in now provides correct %SDEBUG and %RDEBUG tags.
02311393 (286018)
- A problem that caused PL/I JSONPUTMEMBER and JSONPUTVALUE BiFs to skip blanks for NULL initialized CHAR members has been fixed.
02298471 (286068)
- A problem related to STRING pseudo-variable with PICTURED type has been fixed.
02062482 (180008)
- A problem that caused the PL/I EXEC pre-processor to skip % statement-parsing has been fixed.
02343270 (301024)
- A problem that caused the compiler to abort on a DFT RANGE(*) without attributes has been fixed.
02134010 (198020)

Run-time System

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- An issue where you could potentially see erroneous jseb-errors when running IMS unload jobs has been fixed.
02286768 (258120)
- An issue in the native Run-Time System's clean-up logic sometimes resulted in a crash when a .NET AppDomain running a managed COBOL program was unloaded. This has now been fixed.
02259505 (301047)
- Programs using the public SPOOL API - MVSSPLPB - failed when run outside of an enterprise server region. This is now fixed.

02328509 (291012)

- When printing using printer redirection in .NET COBOL programs, written records are buffered by default for performance reasons. Previously, this could have resulted in misaligned text if a record starting with many leading spaces ends up split between different buffers. This has now been fixed.

02260785 (284116)

- When using CBL_THREAD_CREATE_P to create a thread in a .NET COBOL application, the stack-size parameter was ignored so the created thread always used the default stack size. This has now been fixed.

02344128 (296105)

- Printer settings, such as the paper size, etc..., selected in the printer dialog loaded from PC_PRINTER_SET_DEFAULT when browsing for a default printer, were not in effect during printing from native and .NET COBOL programs. This is now fixed.

02260752 (285002)

SQL: COBSQL

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- A problem with COBSQL that prevented it from handling the FETCH and EBCDIC conversion of more than 100K rows has been fixed.

02236464 (260248)

- COBSQL has been updated to handle EBCDIC conversion of group variables used in INSERT statements.

02316688 02316681 (285067)

- COBSQL has been modified to handle the XAID preprocessor option with mode=ANSI.
(190006)

- COBSQL has been modified to handle EBCDIC conversion of group variables.

02316681 (288015)

SQL: HCO for SQL Server

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- When using an EXEC SQL DECLARE <host-variable> VARIABLE FOR BIT DATA statement you can now specify multiple host variables as a comma-separated list. If you use multiple DECLARE <host-variable> VARIABLE FOR BIT DATA statements in one EXEC SQL block, a compile error now occurs.

02167287 (203217)

- A problem compiling a COBOL SQL program with multiple fetch statements using WITH ROWSET POSITIONING has been fixed.

02340840 (297057)

- A problem with passing numeric or blank values for unsupported parameters to the HCOSS DSN bind utility caused a DSN syntax error. This has been resolved.

02338931 (296093)

- A problem with inserting a DEFAULT value as the only item in the list of an INSERT statement with SQL(DIALECT=MAINFRAME) has been fixed.

02354547 (303098)

SQL: Mainframe Batch Database Tools

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- A problem that occurred when using a semi-colon (;) in literals of CHAR or VARCHAR in SQL statements for DSNTIAUL has been fixed.
02296965 (258267)
- The query buffer has been increased to 32K to address a problem processing individual SQL queries on a large number rows.
02228135 02288154 (260071)
- A problem showing execution status of non-SELECT statements with SQLTUL/DSNTIAUL has been fixed.
02296878 (260237)
- A problem that occurred when loading a data record into a specific partition of a table in DB2 LUW where the partition column was of the DECIMAL data type has been fixed.
02236304 (264096)
- A problem returning RC=8 when loading NULL values to NOT NULL fields with SQLUTB has been fixed.
02309758 (285021)
- A problem using a large size SQL statement (up to 64KB) as SYSIN input for SQLTUL has been corrected.
02335290 02346228 (272013)

SQL: OpenESQL

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- The Open ESQL Java runtime can now properly convert long BigDecimal values greater than 18 digits returned from the database server to signed COBOL numeric data types.
(246129)
- A problem that caused erroneous memory usage in the Open ESQL runtime has been fixed.
02321779 (293023)
- A problem that prevented database locks from being released at the end of an DSNALI transaction when using switch modules that use OpenESQL has been fixed.
02307521 (296031)
- When run under Enterprise Server with an XA connection, HCOSS stored procedures were being called without the DIALECT=MAINFRAME directive being set. This has been resolved.
02318095 (286138)

Other Resolved Issues

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This section lists other issues that have been fixed since the main release of Enterprise Server 8.0.

- [Other Resolved Issues in this Patch Update](#)

Other Resolved Issues in this Patch Update

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No other resolved issues are included in this Patch Update.

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