

# ChangeMan<sup>®</sup> ZMF 8.2 Patch 7 Readme

January 2023

This Readme file contains information you should know before you install or use ChangeMan ZMF 8.2 Patch 7.

You can download the installer for ChangeMan ZMF 8.2 Patch 7 from the Downloads section of the [Micro Focus Support](#) website. See "[Installation](#)" on [page 6](#) for details on installing ChangeMan ZMF 8.2 Patch 7.

## General Information

### Product Description

ChangeMan ZMF is a comprehensive and fully integrated solution for software change, configuration, and release management systems in z/OS<sup>®</sup> environments. It provides reliable and streamlined implementation of software changes from development through all quality gates and into production. ChangeMan ZMF manages and automates the application life cycle, protects the integrity of the code migration process, and results in higher quality delivered code to each QA/test environment and to the production environment.

### Release Summary

See [New Features in ChangeMan ZMF 8.2 Patch 7 on page 3](#) for a list of the enhancements in ChangeMan ZMF 8.2 Patch 7.

See "[Fixes in ChangeMan ZMF 8.2 Patch 7](#)" on [page 3](#) for links to the defects that have been fixed in ChangeMan ZMF 8.2 Patch 7.

### Customer Support

- **Online Support** — The Micro Focus Support website at <https://www.microfocus.com/en-us/support/ChangeMan%20ZMF> provides an easy way for customers to manage their support cases or search the Knowledgebase for the latest technical information about our products at any time.

A user ID and password are required to access some of the resources on the Micro Focus Support website. To obtain a user ID and password, sign up online or contact Customer Support by email or telephone.

- **Downloads** — The Software Licenses and Downloads (SLD) website at <https://sld.microfocus.com/mysoftware/index> is where you can download products and patches for them.

A user ID and password are required to access the Software Licenses and Downloads website. To obtain a user ID and password, sign up online or contact Customer Support by email or telephone.

- **Telephone Support** — Telephone contact numbers for Customer Support are posted by region at the following URL:

<https://support.microfocus.com/contact/serena.html>

No password is needed to access Customer Support contact information.

- **Email Support** — Customers can send support requests by email to [customercare@microfocus.com](mailto:customercare@microfocus.com).
- **Authorized Support Representative** — Some support contracts specify that support calls will be centrally managed within the customer organization. This practice enables related issues to be aggregated across multiple customer sites or functional groups, and it ensures accountability for the satisfactory resolution of open issues. You should determine whether you have such a support contract before contacting Customer Support. If you do have such a contract, submit your support request to the designated support manager within your organization and arrange for that person to contact Customer Support.

## New Features and Fixes

This section:

- Describes the new features and changes in ChangeMan ZMF 8.2 Patch 7.
- Provides a link to the defects that have been fixed in ChangeMan ZMF 8.2 Patch 7.
- Provides links to new features and fixes from earlier releases.

### New Features in ChangeMan ZMF 8.2 Patch 7

- Added functionality to allow remote callers (REST api) to obtain a list of potential install sites in a single REST API call.
- New COMPONENT.SRC\_INCL.\* XML Services have been created to assist in the identification and processing of SRC-CPY relationships. Please refer to the ChangeMan ZMF XML Services User's Guide for additional information.

### Fixes in ChangeMan ZMF 8.2 Patch 7

Access the following link to display a list of the defects that have been fixed in Sernet and ChangeMan ZMF 8.2 Patch 7:

<https://portal.microfocus.com/s/article/KM000013397>

## New Features and Fixes in ChangeMan ZMF 8.2 Patch 6, ZMF 8.2 Patch 5, ZMF 8.2 Patch 4, ZMF 8.2 Patch 3, ZMF 8.2 Patch 2, ZMF 8.2 Patch 1, ZMF 8.2, and Earlier Releases

### New Features and Fixes in ChangeMan ZMF 8.2 Patch 6

New Features

<https://portal.microfocus.com/s/article/KM000013374>

Fixes:

<https://portal.microfocus.com/s/article/KM000003751>

### New Features and Fixes in ChangeMan ZMF 8.2 Patch 5

New Features

<https://portal.microfocus.com/s/article/KM000003587>

Fixes:

<http://knowledgebase.serena.com/InfoCenter/index?page=content&id=S143394>

## New Features and Fixes in ChangeMan ZMF 8.2 Patch 4

New Features

<http://knowledgebase.serena.com/InfoCenter/index?page=content&id=S143365>

Fixes:

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF\\_8.2\\_Patch\\_4\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF_8.2_Patch_4_RESOLVED&channel=DEFECTS)

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET\\_8.2\\_Patch\\_4\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET_8.2_Patch_4_RESOLVED&channel=DEFECTS)

## New Features and Fixes in ChangeMan ZMF 8.2 Patch 3

New Features

<http://knowledgebase.serena.com/InfoCenter/index?page=content&id=S143254>

Fixes:

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF\\_8.2\\_Patch\\_3\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF_8.2_Patch_3_RESOLVED&channel=DEFECTS)

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET\\_8.2\\_Patch\\_3\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET_8.2_Patch_3_RESOLVED&channel=DEFECTS)

## New Features and Fixes in ChangeMan ZMF 8.2 Patch 2

New Features:

<http://knowledgebase.serena.com/InfoCenter/index?page=content&id=S143106>

Fixes:

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF\\_8.2\\_Patch\\_2\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF_8.2_Patch_2_RESOLVED&channel=DEFECTS)

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET\\_8.2\\_Patch\\_2\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET_8.2_Patch_2_RESOLVED&channel=DEFECTS)

## New Features and Fixes in ChangeMan ZMF 8.2 Patch 1

New Features:

<http://knowledgebase.serena.com/InfoCenter/index?page=content&id=S142997>

Fixes:

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF\\_8.2\\_Patch\\_1\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF_8.2_Patch_1_RESOLVED&channel=DEFECTS)

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET\\_8.2\\_Patch\\_1\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET_8.2_Patch_1_RESOLVED&channel=DEFECTS) New Features and Fixes in ChangeMan ZMF 8.2

## New Features and Fixes in ChangeMan ZMF 8.2

New Features:

<http://knowledgebase.serena.com/InfoCenter/index?page=content&id=S142996>

Fixes:

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF\\_8.2\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=CMZMF_8.2_RESOLVED&channel=DEFECTS)

[http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET\\_8.2\\_RESOLVED&channel=DEFECTS](http://knowledgebase.serena.com/InfoCenter/index?page=content&cat=SERNET_8.2_RESOLVED&channel=DEFECTS)

## New Features and Fixes in Earlier ChangeMan ZMF Releases



**NOTE** You can obtain a summary of the enhancements and fixes in the ChangeMan ZMF 8.1.x releases from the ZMF 8.1.4.01 or ZMF 8.1.4 Readme files, which you can access from the following URL:

<https://www.microfocus.com/support-and-services/documentation/>

## Installation

You must install the ChangeMan ZMF products that you have licensed in the following order, as appropriate:

- ZMF Web Services. If you are running customized applications using ZMF Web Services, perform the actions discussed in the section titled [Upgrading to ChangeMan ZMF 8.2 Patch 7 Web Services on page 8](#).
- ZDD and/or ZMF for Eclipse Clients (the ZMF Client Pack).
- ZMF P sites and REST Services upgrade
- ZMF D, DP and ALL sites and REST Services upgrade



**IMPORTANT!** The REST Services upgrade should be done concurrently with the ZMF upgrade. This is important for ZMF 8.2 Patch 4 with the merging of REST and Event Services. In later releases, the REST Services upgrade may be done prior to the ZMF upgrade.

You can download the installer for ChangeMan ZMF 8.2 Patch 7 from the Downloads section of the [Micro Focus Support](#) website.

A customer ID and password are required to access the website. After logging in, follow the prompts to access your software. If you experience any problems while accessing your software, contact us on the most appropriate number from <https://www.microfocus.com/support-and-services/serena/>.

The dialog text of the Installer EXE has also changed extensively to support the REST API feature. We've also replaced the word "FIX" with "All Available PATCHES", and "DELTA" with "Only This Current PATCH" to better reflect the new release naming convention.

The installer will install one of the following versions of ChangeMan ZMF:

- The full ChangeMan ZMF 8.2 Patch 7 product - the first option.
- All available PATCHES since ChangeMan ZMF 8.2 (that is, ChangeMan ZMF 8.2 Patch 1, ChangeMan ZMF 8.2 Patch 2, ChangeMan ZMF 8.2 Patch 3, ChangeMan ZMF 8.2 Patch 4, ChangeMan ZMF 8.2 Patch 5, and ChangeMan ZMF 8.2 Patch 6). (You must have ChangeMan ZMF 8.2 installed to select this option) - the second option.
- Only this current PATCH, ChangeMan ZMF 8.2 Patch 7 (You must have ChangeMan ZMF 8.2 Patch 6 installed to select this option) - the third option.

Follow the instructions in the *ChangeMan ZMF Migration Guide* to upgrade an existing 7.x or 8.x instance of ChangeMan ZMF.

## Upgrade Notes

Refer to the *ChangeMan ZMF Migration Guide* for a list of conversion jobs that you must run to convert master files from the specified ZMF version to ZMF 8.2 Patch 7. All jobs are members of the CMNZMF.V8R2P07.CNTL distribution library. Customize the job's JCL as indicated in the comments within each member before you run it.

## Upgrade Notes for ERO Customers

If you license the Enterprise Release Option (ERO), refer to the instructions in the *ChangeMan ZMF Migration Guide* or *ChangeMan ZMF Installation Guide* for information about the steps you must take to install or upgrade ERO.

## ISPF Panel Changes

All members of the CMNZMF.V8R2P07.PANELS distribution library contain the statements that are highlighted in red below. The exit and copybook that are referenced in these statements are for Micro Focus use only and you should not attempt to change them.

```
***** Top of Data *****
)INEXIT PGM,&EPATTR,CACHE
)PANEL KEYLIST(CMNELSK,CMN)
)ATTR
*INCLUDE CMNPATTR /* embed common panel attributes */
)BODY EXPAND(!!)
.
.
.
```

## Changes to XML Services

Some XML Services are new or changed in ZMF 8.2 Patch 7. To apply these changes:

- Reload your XMLSPACE LDS by running the XMLLOAD job that is delivered in the SERCOMC.V8R2P07.CNTL distribution library.
- XMLSERV now requires a ZMF/Sernet started task to be running to obtain the list of XML Services.
- If you are currently using XML Services and/or have written programs that use XML Services, contact Customer Support for the XML Services Reference Tables and XML Services Delta Report. The Delta Report identifies the XML Services that have changed since the version of ChangeMan ZMF from which you are migrating. You can use this report to determine if you are using any of the XML Services that have changed and plan this part of your upgrade accordingly.

## Optimization Considerations

We strongly recommend that you use IBM's Batch Local Shared Resource (BLSR) or System-Managed Buffering (SMB) to optimize the VSAM KSDS Package Master, Component Master, and long name Component Master files where delivered JCL shows BLSR sample code. Currently, that includes these ZMF components:

Member	Library	Description
CMN\$\$IAX	CMNZMF.V8R2P07.SKELS	Impact analysis data extract submitted online.
IMPACT	CMNZMF.V8R2P07.CNTL	Impact analysis data extract submitted manually.
STARTJCL	CMNZMF.V8R2P07.CNTL	ZMF portion of the started procedure.

Failure to use the BLSR or SMB performance optimization tool may cause unacceptable performance issues for users and/or processes.

See Solution [S100960](#) in the Knowledgebase for more information.

## Upgrading to ChangeMan ZMF 8.2 Patch 7 Web Services

If you are running customized ZMF Web Service-based applications, you should rebuild those applications using the ZMF 8.2 Patch 7 Web Services, regardless of the release from which you are upgrading, and redeploy your applications in production prior to or alongside updating your ZMF Server software.

### Building custom applications using web services

The zmfws.war file contains the classes and stubs necessary to build custom applications that use ChangeMan ZMF base web services. It is now a separate download. See Solution [S143025](#) for more information.

## Rerunning the PassTicket Generation Installation Routine

The PassTicket-generation routine was changed in ZMF 8.1.3. If you have not IPLed since SERXPTIK was last updated (March 2017), you will need to run the SERSET routine with a different, unique token value to implement this change if you are upgrading from a ZMF release prior to 8.1.3.

Take these steps:

- 1 Copy the SERSET JCL supplied in the SERCOMC.V8R2P07.CNTL distribution library to a private library, update the STEPLIB (or JOBLIB) as necessary, and change the TOKEN parameter to a value of 'B'.
- 2 Customize this JCL as appropriate, and execute it on all LPARs that are either hosting the Server started task or from which you can connect to the Server started task. It will produce messages similar to the following:

```
00.40.42 J0553644 SER1704I CSVDYLPA loaded SERXPTIK @ 922E9000, Vers 20170320 10.39
00.40.42 J0553644 SER1708I SerNet.PtickB token created
00.40.42 J0553644 SER1708I SerNet.PtickTok token created
00.40.42 J0553644 SER1709I Passticket support enabled
```



The Server started tasks will now point to the new token and will produce messages similar to the following at start up:

```
06.41.36 S0553755 SER1701I Passticket support previously enabled under 'B' suffix
```



**NOTE** This JCL is a one-off task required to update these particular software components in place. Do not change your existing SERSET procedures to point to the new token. When your systems are next IPLed you will automatically revert to token/suffix 'A', which is correct.

## The ChangeMan ZMF REST API Feature

The software for the ZMF REST API Feature is provided as a part of the full install of ChangeMan ZMF 8.2 Patch 7. The installer will ask for the zFS host directory and will populate the zFS host directory with the .war and .jar files. If you do not provide the zFS host directory, the RECEIVE JCL file (RECEIVE.V8R2P07.JCL), will still contain the steps but they will be commented out. The files include:

```
CMNZMF.V8R2P07.ZMFREST.WAR
CMNZMF.V8R2P07.ZMFWS.WAR
CMNZMF.V8R2P07.ZMOBILE.WAR
CMNZMF.V8R2P07.RESTCLIENT.JAR
```

These .war and .jar files are also provided as individual downloads, in a .zip format, as part of the ChangeMan ZMF 8.2 Patch 7 distribution.

The TomCat components for the REST API components are stored in the CMNZMF.V8R2P07.CNTL library. The addition of these 13 components means that library is much larger than earlier versions.

Refer to the *ChangeMan ZMF REST Services Getting Started Guide* for more information about the REST API feature.

## Prevention of multiple versions of ZMF running in a single ISPF session (U0044)

Different versions of ChangeMan ZMF are incompatible in ISPF split screen mode. User abend 44 blocks users from opening a second session with a different version and can also signify that incomplete SEREX006 exit information has been supplied when it occurs within the ZMF Server started task.

## Software Compatibility

For a complete list of software requirements and product compatibility, see the product compatibility matrix spreadsheet on the Software Licenses and Downloads (SLD) website:

<https://sld.microfocus.com/mysoftware/index>

## Known Issues

- To avoid version conflicts, do not run the XMLSERV prototype tool for XML Services concurrently in ISPF split screen mode with a ChangeMan ZMF instance.
- The routines to stop/start/refresh an IBM® WebSphere® application in promotion, install, and backout consume excessive z/OS memory and elapsed time. Customers report that this behavior is not unique to the ChangeMan ZMF use of the WebSphere API. Customers using the ZMF WebSphere interface should include REGION=0M in jobs that include the CMN\$\$WSB, CMN\$\$WSI, and CMN\$\$WSP skeletons.
- SYNC SORT customers who encounter the following message during SORT processing in the CMVCONxx conversion jobs delivered in the CMNZMF.CNTL distribution library (or any steps involving SORT):

WER175A - INCORE SORT CAPACITY EXCEEDED

can add SORTWORKxx DD statements to steps to explicitly allocate work data sets.

## Documentation Updates

All ChangeMan ZMF documentation is provided in Adobe® Portable Document Format (PDF) and may be downloaded from the Micro Focus SupportLine website at

<https://www.microfocus.com/documentation/changeman-zmf/>.

- Adobe® Reader® is available for free download at <http://get.adobe.com/reader/>. Version 9 or higher is recommended.
- Updates to documentation are frequently issued after the product release date. Updated ChangeMan ZMF Readme files and user manuals are published on the Micro Focus SupportLine website with the rest of the documentation for the product release. Updated Readme files and user manuals are flagged with an **Updated** date in the file name or description.



**NOTE** Change bars in the left margin of ChangeMan ZMF documentation identify substantive changes from the last published version, unless otherwise noted.

- Enhancements that are delivered with ChangeMan ZMF 8.2 Patch 7 are summarized in this Readme file in the section titled [New Features in ChangeMan ZMF 8.2 Patch 7 on page 3](#).

## Searching the Documentation

There is no cross-book index for the ChangeMan ZMF documentation suite. You can use the Advanced Search facility in Adobe Reader to search all ZMF manuals in the same or subordinate folders for information that you want. See topic "Searching the ChangeMan ZMF Documentation Suite" in the "Welcome to..." chapter of each ZMF manual.