Com-plete

Release Notes

Version 6.8.2

July 2023

ADABAS & NATURAL

This document applies to Com-plete Version 6.8.2 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
`Monospace font`	Identifies service names and locations in the format *`folder.subfolder.service`*, APIs, Java classes, methods, properties.
`Italic`	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
`Monospace font`	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
|	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the | symbol.
[ ]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [ ] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

Online Information and Support

Product Documentation

You can find the product documentation on our documentation website at **https://documentation.softwareag.com**.

In addition, you can also access the cloud product documentation via **https://www.softwareag.cloud**. Navigate to the desired product and then, depending on your solution, go to “Developer Center”, “User Center” or “Documentation”.

Product Training

You can find helpful product training material on our Learning Portal at **https://knowledge.softwareag.com**.

Tech Community

You can collaborate with Software AG experts on our Tech Community website at **https://tech-community.softwareag.com**. From here you can, for example:

- Browse through our vast knowledge base.
- Ask questions and find answers in our discussion forums.
- Get the latest Software AG news and announcements.
- Explore our communities.
- Go to our public GitHub and Docker repositories at **https://github.com/softwareag** and **https://hub.docker.com/publishers/softwareag** and discover additional Software AG resources.

Product Support

Support for Software AG products is provided to licensed customers via our Empower Portal at **https://empower.softwareag.com**. Many services on this portal require that you have an account. If you do not yet have one, you can request it at **https://empower.softwareag.com/register**. Once you have an account, you can, for example:

- Download products, updates and fixes.
- Search the Knowledge Center for technical information and tips.
- Subscribe to early warnings and critical alerts.
- Open and update support incidents.
- Add product feature requests.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

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Release Notes for Version 6.8.2

This section provides a brief summary of the changes and enhancements that have been introduced in Com-plete Version 6.8.2.

Com-plete Version 6.8.2. is just a consolidation of fixes that were made during the lifetime of Com-plete Version 6.8.1. The functionality is identical with that of Version 6.8.1. with the latest fixpacks installed. The changes listed below were already described in the Readme.txt accompanying the Version 6.8.1. fixpacks.

Compatibility with other Software AG products

In order for the Natural and the Natural Com-plete interface to work correctly in Com-plete Version 6.8.2, you must have the following zaps installed:

Version	Zaps
NCF 8.3	NP06006, NP06007
NCF 9.2	NP21001
Natural 8.2	NA98083
Natural 9.1	NA18083
Natural 9.2	NA21005 (Might already be installed in the delivery kit)

New and Changed Features

- ROLL Buffer Pool Configuration
- Writing z/OS SYSOUT Reports to JES Directly Bypassing the Com-plete Spool
- 31-bit Thread Areas in Large Pages
- PDSE-2 Member Generations
- CONSOLE Server Now Obsolete
- New System Parameter OPERLOG=NO
- Support Arguments for LE C/C++ main(int argc, char *argv[])
- Write SMF Checkpoint Record at Terminal-WRITE
- Option to Pass Input String to COBOL MAIN LINKAGE SECTION
- Monitoring of Currently Executing Transactions
- New HTTP Server Configuration Parameter MAXPARALLEL=n

- New HTTP Server Configuration Parameter NATLOGON=yes/no

ROLL Buffer Pool Configuration

It is now possible to specify just the location of the ROLL buffer pool, while letting Com-plete do the calculation of the internal structure (subpools). This may be useful when you do not desire for Com-plete to build the ROLL buffer pool in 64-bit memory.

```
ROLL-BUFFERPOOL= [64BIT|31BIT|DS]
```

Writing z/OS SYSOUT Reports to JES Directly Bypassing the Com-plete Spool

Com-plete used to write SYSOUT reports into the Com-plete spool first, and then these reports were transferred to JES in the background. This made Com-plete the owner of all reports, rather than the individual originating userIDs. Now SYSOUT reports are written to the JES spool directly bypassing the Com-plete spool.

Note: When Com-plete detects an installation-specific non-RENT user exit routine ULMSBTCH, then SYSOUT reports are handled like before.

This means, you can use ULMSBTCH to control how Com-plete handles SYSOUT reports. If you do have your own ULMSBTCH, and want all SYSOUT reports to be written to the JES spool directly, then make your ULMSBTCH RENT.

If you don't want SYSOUT reports to be written to the JES spool directly, then provide a non-RENT ULMSBTCH, different from the one delivered by Software AG in the Com-plete 6.8 load library.

For example, take the provided sample source module, change something, and assemble it. With `APPLYMOD=85` all reports are routed to JES, forwarding the printer name.

31-bit Thread Areas in Large Pages

A new system parameter has been introduced in order to be able to avoid using large pages (1M): `LARGEPAGES=NO`. The new parameter applies to ROLL buffer pool as well.

PDSE-2 Member Generations

The utilities UEDIT and UPDS accept syntax MEMBER-N for access to relative generation N.

When browsing a generations-enabled PDSE-2 directory via web UI, the member tool box now contains the link "Show member generations". In order to display the member tool box, click any empty space in the table row.

PDSE-2 libraries can be allocated from within the web UI "Find data sets" function:

1. Click an empty part of line.

2. Select **Tools**.
3. Click on **Allocate similar data set**.

CONSOLE Server Now Obsolete

Com-plete (both UQ-M and the HTTP console) now use either OPERLOG when present or SYSLOG as the source for system messages. If you are still running a CONSOLE server in your Com-plete, you must remove it.

New System Parameter OPERLOG=NO

The new system parameter `OPERLOG=NO` avoids attempts to open OPERLOG and forces UQ-M and the HTTP console to always use SYSLOG.

Support Arguments for LE C/C++ main(int argc, char *argv[])

A C/C++ main() program can now receive arguments when invoked from the ComPass command line.

Example

```
myprog arg1 arg2
```

Results in .

```
arg[0] *MYPROG
arg[1] arg1
arg[2] arg2
```

Note: All strings are upper-cased unless `APPLYMOD=37` is set, and the individual ComPass case setting is set to `LOWER`.

Write SMF Checkpoint Record at Terminal-WRITE

Specify the new option `SMFRECORDS=1W` to write a record at the time of every terminal-WRITE operation. In contrast, `SMFRECORDS=1T` writes a record not per transaction, but per roll-out. This results in way too many records.

Option to Pass Input String to COBOL MAIN LINKAGE SECTION

The input string from the ComPass command line or FETCH / ATTACH can now be passed to the LINKAGE SECTION of a COBOL MAIN program like `*PROGRAM` parms. For compatibility reasons, `APPLYMOD=49` must be set to enable this option.

Monitoring of Currently Executing Transactions

In the web UI under Monitoring, a new function **Running transactions** has been added. This function shows all transactions running for more than one second at the time being, indicating many details and providing a `CANCEL` link for every transaction running for more than 5 seconds.

New HTTP Server Configuration Parameter MAXPARALLEL=n

The new parameter `MAXPARALLEL=`*`n`* limits the maximum number of connections per client. The default value is 9.

While major browsers normally use no more than 4 parallel connections per server, there are configurable and home-grown HTTP clients out there. These can easily open hundreds and more connections in a very short time, leading to resource shortages in Com-plete.

New HTTP Server Configuration Parameter NATLOGON=yes/no

For requests like `/natcgi/lib/pgm` the server now starts Natural with the parameter `STACK(LOGON lib;HNANSHEL)`. Specify `NATLOGON=no` if you wish to avoid `LOGON lib`.

Product Availability and End of Maintenance

You can view all available Software AG product versions and check the dates when their maintenance ends by using the System Requirements App at:

https://documentation.softwareag.com/systemrequirements/#/

Here, you can enter the product name or code in the search field and see the latest information on system requirements and product availability.