

Adabas

Release Notes

Version 8.6.1

January 2025

This document applies to Adabas Version 8.6.1 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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1 Release Notes

This document provides a brief summary of the new and changed features included in Adabas 8.6, with links for more information to other areas of the Adabas documentation set.



Important: Be sure that you apply all supplied Adabas 8 maintenance and concatenate Adabas 8 patch-level libraries (L00*n*), as they are delivered to you. This will ensure that your Adabas 8 code remains up-to-date, supporting all Adabas 8 features as they are enhanced and maintained.

If you are upgrading to this Adabas release from a release prior to the most recent Adabas release (for example, if you are upgrading from Adabas 8.4 to Adabas 8.6 and skipping the intermediate upgrade to Adabas 8.5), please read the Release Notes for the releases you are skipping to get a complete understanding of all of the changes implemented in Adabas since you last updated your software.

This document covers the following topics:

<i>Supported Operating System Platforms</i>	Describes the currently supported operating environments for this version of Adabas.
<i>Enhancements</i>	Describes the new and changed features in 8.6.
<i>Installation and License</i>	Describes the new and changed features concerning installation and licensing in 8.6.
<i>Future Plans</i>	Describes future plans of Adabas, such as any plans for Adabas to stop supporting specific features.
<i>Limitations and Restrictions</i>	Lists the limitations and restrictions currently existing in this version of Adabas.
<i>Adabas Data Set Compatibility</i>	Describes the compatibility of Adabas data sets across Adabas releases.
<i>Applying Zaps</i>	Describes general information on where to locate and how to apply Adabas zaps.

<i>Software AG Mainframe Product Compatibility</i>	Describes the compatibility of this version of Adabas with other Software AG mainframe products.
<i>Using COR-based Add-ons</i>	Describes using the COR-based Add-on products Adabas System Coordinator (COR), Adabas SAF Security (AAF), Adabas Fastpath (AFP), Adabas Transaction Manager (ATM), and Adabas Vista (AVI) with this version of Adabas.
<i>AFPLOOK /AVILOOK Considerations</i>	Describes considerations regarding the demo programs AFPLOOK and AVILOOK.
<i>End of Maintenance</i>	Describes how you can determine the end-of-support dates for your Software AG products.
<i>Documentation and Other Online Information</i>	Describes the documentation and other online information you can obtain for this release of Adabas.

2 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	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>.

Product Training

You can find helpful product training material on our Learning Portal at <https://learn.software-ag.com>.

Tech Community

You can collaborate with Software GmbH 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 GmbH news and announcements.
- Explore our communities.
- Go to our public GitHub and Docker repositories at <https://github.com/softwareag> and <https://containers.softwareag.com/products> and discover additional Software GmbH resources.

Product Support

Support for Software GmbH 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 GmbH 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.

3 Supported Operating System Platforms

Software AG generally provides support for the operating system platform versions supported by their respective manufacturers; when an operating system platform provider stops supporting a version of an operating system, Software AG will stop supporting that version.

For information regarding Software AG product compatibility with IBM platforms and any IBM requirements for Software AG products, please review the [Product Compatibility for IBM Platforms](#) web page.

Before attempting to install this product, ensure that your host operating system is at the minimum required level. For information on the operating system platform versions supported by Software AG products, complete the following steps.

1. Access Software AG's Empower web site at <https://empower.softwareag.com>.
2. Expand **Products & Documentation** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability screen.
3. Use the fields on the top of this screen to filter its results for your Software AG product. When you click the **Search** button, the supported Software AG products that meet the filter criteria are listed in the table below the filter criteria.

This list provides, by supported operating system platform:

- the Software AG general availability (GA) date of the Software AG product;
- the date the operating system platform is scheduled for retirement (OS Retirement);
- the Software AG end-of-maintenance (EOM) date for the product; and
- the Software AG end-of-sustained-support (EOSS) date for the product.



Note: Although it may be technically possible to run a new version of your Software AG product on an older operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider. If you have questions about support, or if you plan to install this product on a release, version, or type of operating

system other than one listed on the Product Version Availability screen described above, consult Software AG technical support to determine whether support is possible, and under what circumstances.

4 Enhancements

■ Adabas 8.6 SP1 Enhancements	10
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This chapter lists the Adabas 8.6 enhancements.

Category	Enhancements
<i>Adabas 8.6 SP1 Enhancements</i>	<i>Adabas Buffer Pool Enhancements</i>
	<i>Adabas Command Enhancements</i>
	<i>Adabas Console Message Enhancements</i>
	<i>Adabas Utility Enhancements</i>
	<i>Adabas Auditing for Mainframes</i>
	<i>Adabas Online Services</i>
	<i>Adabas Operator Command Enhancements</i>
	<i>Adabas Review Enhancements</i>
	<i>Adabas CICS Sample JOBS</i>
	<i>SMF Statistics Enhancements</i>
	<i>ADABAS Shutdown Statistics</i>
	<i>Adabas User Exits</i>

Adabas 8.6 SP1 Enhancements

- [Adabas Buffer Pool Enhancements](#)
- [Adabas Command Enhancements](#)
- [Adabas Console Message Enhancements](#)
- [Adabas Utility Enhancements](#)
- [Adabas Auditing for Mainframe](#)
- [Adabas Online Services](#)
- [Adabas Operator Command Enhancements](#)
- [Adabas Review Enhancements](#)
- [Adabas CICS Sample JOBS](#)
- [SMF Statistics Enhancements](#)
- [ADABAS Shutdown Statistics](#)

- [Adabas User Exits](#)

Adabas Buffer Pool Enhancements

Adabas V8.6 introduces the option to increase the buffer pool to multiple gigabytes – for example, LBP=12G or 12 gigabytes. This allows installations to seek a higher buffer efficiency and fewer read I/Os from the database, quicker command response times, and the potential for putting a higher workload on Adabas.

Prior to version 8.6, Adabas supported buffer pools in 31-bit addressable storage (above the 16-megabyte line) but not in 64-bit addressable storage (above the 2-gigabyte bar). Therefore, the buffer pool could only be as large as the space available between the 16-megabyte line and the 2-gigabyte bar. In practice, the size of the buffer pool was limited to a maximum of 1.0-1.5 gigabytes, depending on the system configuration.

Adabas V8.6 now supports the so called "buffer pool above the bar."

Adabas Command Enhancements

- [New Command Option2 = 'J'](#)
- [New Command Option2 = 'K'](#)

New Command Option2 = 'J'

For L1 and L4, a new Command Option2 = 'J' is available. The option allows to read the records of a file in descending ISN sequence. See *L1 and L4 Commands: Read / Read and Hold Record > Function and Use* in the *Command Reference* part of the documentation for further details.

To support the new Command Option2 = 'J' in Adabas Fastpath and Adabas Vista, make sure that the following fixes are applied:

- AW822072 and AW822075 (AFP)
- AV822059 and AV822062 (AVI)

With Natural for Mainframes 9.2.2 and above, this command option can be used in statements like READ BY ISN DESCENDING.

New Command Option2 = 'K'

For L1 and L4, a new Command Option2 = 'K' is available. The option allows to read the records of a file in ISN sequence by specifying a `T0` ISN, an ISN at which the read sequence should end. See *L1 and L4 Commands: Read / Read and Hold Record > Function and Use* in the *Command Reference* part of the documentation for further details.

To support the new Command Option2 = 'K' in Adabas Fastpath and Adabas Vista, make sure that the following fixes are applied:

- AW822072 and AW822075 (AFP)
- AV822059 and AV822062 (AVI)

With Natural for Mainframes 9.2.2 and above, this command option can be used in statements like `READ BY ISN [ASCENDING | DESCENDING] ENDING AT`.

Adabas Console Message Enhancements

Expanded ADAN01 Console Message for UTIONLY Mode

The Adabas console message ADAN01 has been enhanced to include information about an Adabas system that is started in UTIONLY mode, or when `UTIONLY=YES`.

Adabas Utility Enhancements

- [ADADBS OPERCOM DRES additional High Watermark information](#)
- [ADARES BACKOUT Using Disk Dataset for DDBACK](#)
- [ADARES Parameter UTICPLISTALL Print All Utility Checkpoints](#)
- [ADASEL ETUSERDA Write User Data Produced by an ET Command](#)
- [ADASEL SELECT BACKOUT Select only PLOG records generated by BT](#)
- [ADAZIN Support for Adabas CICS Interface, COR-based Add-ons, and Adabas Service for Java](#)
- [New ADAREP High Watermark Information for Display Checkpoints and XML](#)
- [TEMP and SORT Processing in Utilities ADAINV, ADALOD and ADAULD](#)

ADADBS OPERCOM DRES additional High Watermark information

In Adabas V8.6 SP1, ADADBS OPERCOM DRES expands, introducing two new parameters, `SESSION` and `TS`.

Prior to Adabas V8.6 SP1, ADADBS OPERCOM DRES only returned High Watermark statistic since the last refresh. If ADADBS REFRESHSTATS ALL or ADADBS REFRESHSTATS POOLUSAGE has not been invoked, high watermark statistics collected from the start of the nucleus are displayed.

When the `SESSION` parameter is specified, the user receives statistics collected from the start of the nucleus, even if a REFRESHSTATS has been invoked.

When the user specifies `TS`, a date and time is output for when the high watermark was recorded. The date-time statistic will correspond to the last refresh, or the full session, depending on which is specified. To make this information easier to read, the **Current Usage** and **High Watermark** columns have been switched in the output order.

ADARES BACKOUT Using Disk Dataset for DDBACK

Prior to Adabas V8.6 SP1, ADARES BACKOUT required the sequential protection log dataset (DDBACK) to reside on tape.

Adabas V8.6 SP1 and later permits DDBACK to reside either on tape or on disk.

When DDBACK points to multiple concatenated sequential protection log datasets, all these datasets must be either on tape or on disk. A mixture of tape and disk datasets concatenated together under the DDBACK DD is not supported.

ADARES Parameter UTICPLISTALL Print All Utility Checkpoints

The ADARES PLCOPY and ADARES COPY utilities can now use the parameter UTICPLISTALL to display all utility checkpoints.

Prior to this addition, UTICPLIST could only display SYNPN, SYNVP, and SYNPS checkpoints. Now you can use UTICPLISTALL instead of UTICPLIST to display all utility checkpoints for PLCOPY and COPY.

ADASEL ETUSERDA Write User Data Produced by an ET Command

The ADASEL utility can now display user data written by an ET command with the DISPLAY option ETUSERDA.

When choosing to DISPLAY ETUSERDA, all ET records are displayed. The records without ET user data attached display `ETUSERDA unavailable`. When you choose to display ET user data, you can specify the user data with a logical operator followed by the value-criterion ETUSERDA, which limits the ADASEL OUTPUT to only records with the specified user data, if they are present. For more information about the ADASEL utility, see *Utilities > ADASEL Utility: Select Protection Data*.

ADASEL SELECT BACKOUT Select only PLOG records generated by BT

The ADASEL SELECT utility now has a new parameter BACKOUT.

ADASEL SELECT BACKOUT selects only the PLOG records generated by backout transactions from a file or user.

ADAZIN Support for Adabas CICS Interface, COR-based Add-ons, and Adabas Service for Java

As of Adabas V8.6 SP1, ADAZIN has been enhanced to support the printing of maintenance information about load modules for the following products:

- Adabas CICS Interface (ACI)
- COR-based Add-ons including:
 - Adabas System Coordinator (COR)
 - Adabas Fastpath (AFP)
 - Adabas Vista (AVI)
 - Adabas Transaction Manager (ATM)
 - Adabas SAF Security (AAF)
- Adabas Service for Java (AJZ)

New ADAREP High Watermark Information for Display Checkpoints and XML

Adabas V8.6 introduces a new layout for the SYNS-5B checkpoint record.

The SYNS-5B checkpoint record contains information on refresh statistics. Prior to Adabas V8.6, only High Watermark statistics were written to the record for 18 pools upon a statistics refresh or nucleus shutdown. In the event of a statistics refresh, the Interval High Watermark is written to the record. Otherwise, the Session High Watermark is written to the checkpoint record.

The SYNS-5B checkpoint record now includes Allocated size, the High Watermark size, and each pool's associated timestamp. The new checkpoint record also includes the Redo Pool, Auditing Pool, and Replication Pool. The Auditing Pool and Replication Pool use an 8-byte size and an 8-byte High Watermark.

These new enhancements can be viewed in the ADAREP extended checkpoint output as well as the extended XML output.

TEMP and SORT Processing in Utilities ADAINV, ADALOD and ADAULD

ADA861 provides the following enhancements to the processing of TEMP and SORT datasets in utilities ADAINV, ADALOD and ADAULD:

- Allow SORT and TEMP to be dynamically extended when full.
- Support writing to SORT and TEMP even though the datasets have not been pre-formatted (e.g. via ADAFRM).
- Support temporary dataset usage for TEMP and SORT, e.g.:

```
//DDTEMPR1 DD DSN=&&TEMP,DISP=(NEW,DELETE),
//          SPACE=(CYL,(100,100)),VOL=(,,10)
//DDSORTR1 DD DSN=&&SORT,DISP=NEW,
//          SPACE=(CYL,(100,100)),RECFM=F,BLKSIZE=8904
```

Prior to ADA861, the `TEMPSIZE` and `SORTSIZE` parameters were mandatory. With ADA861, `TEMPSIZE` and `SORTSIZE` become optional parameters.

If `TEMPSIZE/SORTSIZE` is specified, the utility will process `TEMP/SORT` in the same way as in previous versions, i.e. pre-formatting of `TEMP/SORT` is required and dynamically extending the dataset is not available.

By omitting the `TEMPSIZE/SORTSIZE` parameter, users can take advantage of the enhancements listed above.

When `TEMPSIZE/SORTSIZE` is omitted, the user can either let the utility choose the `TEMP/SORT` device type (by omitting the `TEMPDEV/SORTDEV` parameter), or else set the `TEMP/SORT` device type by specifying `TEMPDEV/SORTDEV`.

When both `TEMPSIZE/SORTSIZE` and `TEMPDEV/SORTDEV` are omitted and `TEMP/SORT` is unformatted, users can specify the block size to be used for `TEMP/SORT` via JCL. The sample JCL for `DDSORTR1` above provides an example of this. In this case, the block size in the JCL will be used if it matches an Adabas device type. A JCL block size which does not match an Adabas device type is treated as an error. For the list of Adabas device types and corresponding block sizes, see *Supported Adabas Device Types*.

For processing `TEMP/SORT` datasets which are not pre-formatted, Software AG recommends omitting both `TEMPSIZE/SORTSIZE` and `TEMPDEV/SORTDEV`, and not specifying a block size via JCL. The utility will then select an optimum block size.

When both `TEMPSIZE/SORTSIZE` and `TEMPDEV/SORTDEV` are omitted and `TEMP/SORT` is pre-formatted, the utility retains the block size of the existing dataset.

Note that it is still possible for `TEMP/SORT` to fill up. Users should define `TEMP` and `SORT` datasets with secondary extents large enough to hold all required data.

See the `ADAINV`, `ADALOD` and `ADAULD` Utilities documentation for guidance on the size requirements for `TEMP/SORT` datasets, and for more detailed information about the processing of `TEMP` and `SORT`.

Adabas Auditing for Mainframe

With the new Adabas add-on product Adabas Auditing for Mainframes, several enhancements touch Adabas components. Most notably, a new direct access container type ALOG is available (DDNAME DDALOGRx). It is used to record the Audit Events by the Adabas Auditing server on behalf of the Adabas nuclei. Please see the *Adabas Auditing for Mainframe* documentation for details.

Adabas Online Services

- [Session HWM timestamps](#)
- [CLOG/PLOG Dataset Status](#)
- [Refresh Option for Display User Queue Element](#)
- [Modify File Information Displays Target ID for file if Replication=ON](#)
- [Filter Information for Display UQE, CQE, HQE](#)

Session HWM timestamps

With Adabas V8.6 SP1 and later, when using options A, W, H from the main menu to display Session High Water Marks, a timestamp is now recorded for the time of the event.

CLOG/PLOG Dataset Status

You can now display the individual status of each PLOG or CLOG dataset in the Adabas Online System facility. This functionality can also be used in Adabas version 8.5.4 with the optional zap AY854181.

For more information about the CLOG/PLOG dataset status, see *Using Adabas Online System (AOS) > Performing System Operator Command Functions > CLOG/PLOG Dataset Status* in the *Adabas Online System* documentation..

Refresh Option for Display User Queue Element

When displaying a selected User Queue Element (UQE), you can now press PF4 to refresh the information associated with that UQE.

From the Main Menu, choose option A Session Monitoring, then Q Display Queues, A Display User Queue Elements, then type a D on the selection line for the User Queue Element of your choice, and you are given the details of that UQE. It is on this map, that you can press PF4 to display any updated information of the UQE.

Modify File Information Displays Target ID for file if Replication=ON

Modify File Information now displays the Target ID for the given file if Replication=ON.

From the Main Menu, choose option F File Maintenance, then M Modify File parameters, and specify a file number. If Replication=ON, the resulting screen includes the Target ID of the Reptor that is in use for this file.

Filter Information for Display UQE, CQE, HQE

When displaying user queue elements (UQE), command queue elements (CQE), or hold queue elements (HQE) in the Adabas Online System facility, you can now use the new program function key PF5 Filter to filter the displayed information.

For more information about the filtering function, see *Using Adabas Online System (AOS) > Monitoring Adabas Sessions > Displaying Queues* in the *Adabas Online System* documentation.

Adabas Operator Command Enhancements**ADABAS DRES OPERATOR COMMAND additional High Watermark information**

In Adabas V8.6 SP1, ADABAS DRES OPERATOR COMMAND expands, introducing two new parameters, SESSION and TS.

Prior to Adabas V8.6 SP1, the ADABAS DRES OPERATOR COMMAND only returned High Watermark statistics since the last refresh. If ADADBS REFRESHSTATS ALL or ADADBS REFRESHSTATS POOLUSAGE has not been invoked, high watermark statistics collected from the start of the nucleus are displayed.

When the SESSION parameter is specified, the user receives statistics collected from the start of the nucleus if a REFRESHSTATS has been invoked. However, if a REFRESHSTATS has not been invoked, the ADAN2J message will be displayed informing the user that these stats have not yet been generated. Interval statistics, which have been collected from the start of the nucleus, will be displayed.

When the user specifies TS, a date and time are output for when the high watermark was recorded. The date-time statistic will correspond to the last refresh, or the full session, depending on which is specified.

In this enhancement, there have been some slight adjustments to the alignment of the column headers. Specifically, the "Size" label has been shifted to the right 1 column, and the "High Watermark" label has been shifted left 1 column.

Adabas Review Enhancements

The following enhancements have been added to SYSREVDDB on Adabas Review version 5.3.1.1. For more information, refer to the Adabas Review documentation.

- [Accessing Adabas Review Online](#)
- [Initializing Adabas Review from Batch Natural](#)
- [Improved INSTALL DB Command](#)
- [Repository Version in TECH Command](#)
- [Header in Generated Basic Mode Programs](#)
- [Improved Redisplay Mode](#)
- [Loss-free RESET HISTORY Command](#)
- [New Help Functions](#)
- [New Commands and Command Alias Names](#)
- [New Supplied Batch Natural Program](#)
- [User Profile Entry For SET and SETFILE Command](#)

Accessing Adabas Review Online

You can now start Adabas Review online when you enter the new SYSREVDDB command in a Natural prompt. If required, the SYSREVDDB command performs a LOGON to the library SYSREVDDB and starts the program MENU.

Initializing Adabas Review from Batch Natural

You can now initialize Adabas Review when you enter the INSTALL or INSTALL ALL command in a Natural prompt for SYSREVDDB or from batch Natural.

Improved INSTALL DB Command

Running the INSTALL DB command now repairs the Adabas Review repository if sample reports are missing or multiple copies of a sample report are found.

Repository Version in TECH Command

When you view the technical system information with the TECH command, the Database System Environment screen now shows the Adabas Review repository version if the repository is allocated with SYSREVDDB 4.7 SP1 or lower.

Header in Generated Basic Mode Programs

The header of generated programs in Basic mode now uses the same standard header as programs in Editor mode.

Improved Redisplay Mode

The redisplay mode in the output of a Basic mode program now shows readable values for hexadecimal fields. The color of the redisplay mode output is now turquoise.

Loss-free RESET HISTORY Command

When you execute the `RESET HISTORY` command, no data is lost. Running the command now also provides a preview mode and detailed information about the lock status of the file and the processed data.

New Help Functions

- When you execute the `HELP command` command, help information for the specified general Adabas Review command is provided. For example, `HELP HELP` provides help information of the `HELP` command itself.
- When you execute the `HELP *` command, the available general Adabas Review commands are listed.
- If a question mark (?) is entered in the command line, the available general Adabas Review commands are listed.
- In the help screen of an Adabas Review field, you can press PF2 to display field specific information.

New Commands and Command Alias Names

The following commands are new in SYSREVDDB:

- The new Adabas Review commands `EXEC natcmd` or `// natcmd` executes the Natural command `natcmd`. After execution, the SYSREVDDB main menu is started.
- The new Adabas Review command `NATURAL natcmd` executes the Natural command `natcmd`. It provides the same functionality as the Adabas Review command `NAT`.
- The new Adabas Review command `TERM` terminates the Natural session. It provides the same functionality as the Adabas Review commands `FIN` and `QUIT`.
- The new Adabas Review command `TRACE` maintains the SYSREVDDB internal trace.

New Supplied Batch Natural Program

The new Adabas Review program `REVTRACE` maintains the `SYSREVDDB` internal trace.

User Profile Entry For SET and SETFILE Command

The user profile access rule **Change LFILE Info?** indicates now whether users are allowed to run the `SET` or `SETFILE` command.

Adabas CICS Sample JOBS

New Adabas CICS Sample JOBS Library

Adabas V8.6 introduces a new JOBS library for Adabas CICS (`ACIvrs.JOBS`).

The following table indicates the old and new location for the sample jobs provided for Adabas CICS.

Sample Job Name	Old Location	New Location
ASMCINS	ACIvrs.SRCE	ACI861.JOBS
ASMCOPT	ACIvrs.SRCE	ACI861.JOBS
CPYCICSM	ADAvrs.JOBS	ACI861.JOBS
JCLALCI	ADAvrs.JOBS	ACI861.JOBS
JCLCOBI	ADAvrs.JOBS	ACI861.JOBS
JCLLNCS	ADAvrs.JOBS	ACI861.JOBS
LNKATRU	ACIvrs.SRCE	ACI861.JOBS
LNKGCICS	ACIvrs.SRCE	ACI861.JOBS

SMF Statistics Enhancements

ADASMF Storage Pool Section Enhancement

As of Adabas V8.6 SP1, ADASMF Storage pool termination statistics now include a High Watermark timestamp for each pool.

ADABAS Shutdown Statistics

Improved ADABAS Shutdown Statistics for High Watermark Pool Information

The shutdown statistics containing High Watermark Pool information now provide the Date and Timestamp of the High Watermark occurrence for each pool.

Adabas User Exits

Sample User Exit 12 Enhancement

The sample user exit 12 (UEX12) for submitting ADARES xLCOPY jobs has been enhanced. UEX12 now supports more Adabas configurations, and the provided load module can be used without modifying its source and reassembling it.

The following list gives a summary of the provided enhancements:

- Support the copying of ALOG (ALA audit server log) datasets in addition to CLOG and PLOG datasets.
- Introduce the following reporting enhancements:
 - Report the log dataset status indicators in readable text instead of hexadecimal flags.
 - Report the number of in-use (i.e., not free) log datasets.
 - Print an additional message line when all log datasets are full.
 - Print the message lines with unique message code suffixes.
 - Print the status message lines with one multi-line WTO request.
- Support the initiating of the ADARES xLCOPY execution using an MVS START command, where ADARES runs as a started task.
- Prepare more customization options using zaps.

For details, see the section *Using Sample User Exit 12 in User, Hyperdescriptor, Collation Descriptor, and SMF Exits*.

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Installation and License

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The Adabas installation package includes a set of sub-products or add-ons. In order to be able to use the sub-products they must be licensed and the corresponding product license file must be provided with the nucleus or utility execution.

License Requirements

From Adabas Version 8.6 SP1 onward, MLC Version 1.3.8 or higher is required.

The error ADANLA occurs if an incompatibility is detected between the Adabas version and the version of the Mainframe License Check (MLC) component.

License file version checking is only done at the version level and not at the release or SM-level. This means that you must have a valid license file(s) for the version of Adabas you are installing. Regardless of whether you are installing a new Adabas version, release, SM-level, or upgrading to a new MLC version, Software AG strongly recommends that you perform an early validation check of your license file(s) to avoid any possible interruption to your install/upgrade plans. If your license file(s) appear incompatible with your product upgrades, contact Software AG and request an updated license file.

For complete information about the licensing process for Software AG mainframe products, read *Software AG Mainframe Product Licensing*, in the *Software AG Mainframe Product Licensing*.

Adabas and Add-On Licenses

The following table describes for a product the member name of the license load module created with LICUTIL and the DD name for the license file.

Product	Product Code	Load Module	DD Name
Adabas	ADA	ADALIC	DDLIC
Adabas for ZIIP	AZPAD	AZPADLIC	DDLAZPAD
Adabas Replication for ZIIP	AZPRP	AZPRPLIC	DDLAZPRP
Adabas Caching Facility	ACF	ACFLIC	DDLACF
Adabas Delta Save	ADE	ADELIC	DDLADE
Adabas Encryption	AEZ	AEZLIC	DDLAEZ
Adabas Auditing	ALA	ALALIC	DDLALA
Adabas Cluster Services	ALS	ALSLIC	DDLALS
Adabas Parallel Services	ASM	ASMLIC	DDLASM
Adabas Online Services	AOS	AOSLIC	DDLAOS
Adabas Replication Facility	ARF	ARFLIC	DDLARF

Product	Product Code	Load Module	DD Name
Adabas SAF Security	AAF	AAFLIC	DDLAAF

Add-On Product Modules Contained in the ADA_{vrs}.LOAD Library

The following add-on products are included in the ADA_{vrs}.LOAD library:

Component	Modules
Adabas Caching Facility (ACF)	ADACSH ADACSZ ADACS6
Adabas Cluster Services (ALS)	ADAXCF ADAXEC ADAXEL
Adabas Delta Save Facility (ADE)	ADADSFN ADADSFR ADADSFS ADAMGS DSFUEX1
Adabas Online System (AOS)	ADAAOS
Adabas Encryption (AEZ)	
Adabas Parallel Services (ASM)	ADASMC ADASML ADASMM ADAS6C

When applying zaps to the add-on products in the table above, the SYSLIB DD in the IMASPZAP job must point to the ADA_{vrs} load library.



Note: The zap identifiers remain unchanged (AH_{vrsnnn} for ACF, AP_{vrsnnn} for ALS, AL_{vrsnnn} for ADE, AS_{vrsnnn} for ASM).

Users installing products via SMA should refer to the *System Maintenance Aid* documentation.

To use the various add-on products which are delivered with ADA_{vrs}, it is necessary for users to install a valid product license for the component. For information on installing product licenses, please refer to *Adabas and Add-on Licenses* and the description given in *Installing an Adabas Database*.

6 Future Plans

The following plans are in place for a future release of Adabas.

- The Adabas 8 LGBLSET macro parameter REVREL= is now redundant and will be dropped in a future version. Please remove any use of this parameter in order to avoid future assembly errors. Refer to the current z/OS parameter description *REVREL: Adabas Review Release* for more information on this parameter.
- For future releases of Adabas when formatting new datasets with ADAFRM, users should always supply a non-zero primary space allocation in the SPACE parameter of the JCL DD statement. This is necessary for compatibility with Adabas container datasets requiring encryption.

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End of Support, Limitations and Restrictions

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End of Support

With this version, the platforms z/VSE and BS2000 are no longer supported.

ADAUUSER

ADAUUSER is now delivered as a load module only. The ADAUSER source is no longer distributed.

Any users requiring changes to the standard ADAUSER should contact Adabas support.

Limitations and Restrictions

The following limitations and restrictions exist in this version of Adabas. Enhancements to resolve these limitations may be considered in a future release.

1. The following restrictions and limitations apply to large object (LB) fields in this release:
 - At this time, character conversion of LB field values from one code page to another is not supported. This functionality may be considered in a future release.
 - Some utility parameters are not supported for files containing LB fields. For more information, refer to the documentation for the utility in *Adabas Utilities Manual* and to the utility limitations and restrictions, provided later in this section.
 - At this time, large object (LB) fields can be define only with format A.
2. The new format buffer length indicator is only supported for LA and LB fields. Future versions of Adabas will consider supporting the specification of the length indicator for other fields too. For more information about the format buffer length indicator, read *Length Indicator (L)*, in the *Adabas Command Reference Guide*.
3. The prefetch feature is not supported in ACBX interface direct calls -- it will not support ACBX calls with multiple buffers; you should use the multifetch feature instead. However, the prefetch feature still supports ACB interface direct calls.
4. At this time, system files do not support spanned records or the extended MU and PE field counts.
5. At this time, fields defined with the NB option must also be defined with either the NU or NC option.
6. The following restrictions and limitations apply to spanned records in this release:
 - The ADAULD utility does not support spanned records on ADAULD SAVETAPE runs.
 - At this time, ADAM files do not support spanned records.

- System files do not support spanned records at this time.
- The number of records that comprise a spanned record is limited. The Adabas nucleus allows up to five physical records (one primary record and four secondary records) in a spanned record. If you need more space, try relocating the Data Storage of the file to a different device type with a larger block size.

For more information about spanned record support in Adabas, read *Spanned Record Support*, in the *Adabas Concepts Manual*.

7. At this time, Adabas Review Pulse reports do not support ADARUN CLOGLAYOUT=8.
8. The following table lists restrictions and limitations of the Adabas utilities:

Utility	Restrictions or Limitations
ADACMP	At this time, LB fields cannot be specified in the FORMAT parameter for either ADACMP COMPRESS or ADACMP DECOMPRESS if the LOBVALUES parameter is set to YES.
ADACNV	<p>ADACNV will not allow you to REVERT the database to Adabas 8.2 if any of the following apply:</p> <ul style="list-style-type: none"> ■ The database contains a Security file in which a password is or was defined that applies to more than 191 files or relates to more security-by-value criteria than fit into a single data storage record. (This condition persists even if that password is deleted.) ■ The database contains a file in which a system field of type SECUID is defined. <p>For information about reverting back to versions prior to Adabas 8.2, refer to the <i>Adabas 8.2 Release Notes</i>. To access a copy of these, read Documentation and Other Online Information, elsewhere in this guide.</p>
ADALOD	<p>The MIXDSDEV parameter is not supported in an ADALOD LOAD run if the file you are loading is a LOB file or may contain spanned records.</p> <p>You cannot use the DDISN or DELISN parameters in an ADALOD UPDATE function to delete records in a <i>LOB file</i>. Furthermore, you can only use these parameters to delete records in a <i>base file</i> of a <i>LOB group</i> if the records to be deleted contain no references to LOB values longer than 253 bytes which are stored in the LOB file. (ADALOD will terminate with an error if such a LOB value is encountered.)</p>

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Adabas Data Set Compatibility

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Generally, Adabas utilities accept sequential input data sets that were produced as output data sets by utilities of the same version. Utilities of Adabas 8.6 also accept input data sets produced by utilities of versions prior to Adabas 8.6. However, utilities for versions prior to Adabas 8.6 cannot generally work with input data sets produced by Adabas 8.6 utilities.

Importing Files

A file cannot be imported (loaded, stored, or restored) into a database running with an earlier Adabas version if it uses features that are supported only in a later Adabas version.

Save Data Sets

Generally, restoring a whole database is possible only with the same Adabas release used for creating the save data set. Restoring individual files is possible with the same or any later Adabas release used for creating the save data set.

Using the ADASAV utility of Adabas 8.6, you can restore files into an Adabas 8.6 database from a database save or file save data set created with the ADASAV utility from any prior Adabas version. Likewise, using the ADAREP or ADAULD utilities of Adabas 8.6, you can print a report or unload a file from a database save or file save data set created with the ADASAV utility from any prior Adabas version.

You can restore files from an Adabas 8.6 database save or file save data set into a database running with Adabas 8.5, using the RESTORE function for an offline save (or file save with UTYPE=EXU) or the RESTONL function and the corresponding sequential PLOG dataset for an online save.

Using the ADASAV utility of Adabas 8.6 for Delta SAVE MERGE, at least one DELTA save must be created by Adabas 8.6 for the MERGE to work correctly.

You cannot use an ADAREP or ADAULD utility from an Adabas version prior to Adabas 8.6 to print a report or unload a file from a save data set created by the ADASAV utility of Adabas 8.6.

Unload Data Sets

Using the ADALOD utility of Adabas 8.6, you can load a file from an unload data set created using the ADAULD or ADACMP utilities from any prior Adabas version.

Using the ADALOD utility of Adabas 8.5, you can load a file that was unloaded from an Adabas 8.6 database into a database running with Adabas 8.5 as long as the file does not use features supported only in version 8.6.

ADAORD DDFILEA Data Sets

Using the ADAORD utility of Adabas 8.6, you can store files (STORE function) from a DDFILEA data set created using the ADAORD REDB or REF functions from any prior Adabas version.

Using the ADAORD utility of Adabas 8.5, you can store files (STORE function) from a DDFILEA data set created using the ADAORD REDB or REF functions in Adabas 8.6 into a database running with Adabas 8.5, as long as the files do not use features supported only in version 8.6.

Sequential Protection Logs

Any sequential protection log (PLOG) used for the ADACDC utility or ADARES COPY in Adabas 8.6 must have been created with Adabas 8.6. Generally, using a sequential PLOG created with an older Adabas version for utilities is fine as long as the PLOG was created with the following version or later:

Utility/Utility Function	PLOG created with or after
ADARES (BACKOUT/REGENERATE)	Version 7.2.
ADARES (REPAIR)	Version 7.1.
ADASAV, ADASEL, ADAULD	Version 5.2.
ADAPLP, ADARPL and ADAREP	No restrictions.

However, the PLOG written during an online save operation in a version prior to Adabas 8.6 may be used, together with the save data set, for an ADASAV RESTONL FILE or FMOVE operation in Adabas 8.6 (see [Save Data Sets](#), earlier in this section).

9 Applying Zaps



Important: Be sure that you apply all supplied Adabas maintenance and concatenate Adabas patch-level libraries (L00*n*), as they are delivered to you. This will ensure that your Adabas code remains up-to-date, supporting all Adabas features as they are enhanced and maintained. The latest zaps for this product are available in the Knowledge Center in Software AG's Empower (<https://empower.softwareag.com>) web site.

In general, zaps for Adabas components (such as Adabas nuclei, the Adabas router, Adabas utilities) can be applied and made active one component at a time.

If a zap requires that special steps be taken to apply and activate it, those steps will be described in the ACTION section of the zap.

- Adabas utility zaps should be applied to the load library. The utility can then be run or rerun to make use of the zap.
- Adabas nucleus zaps should first be applied to the load library. Then the nucleus should be stopped and restarted to activate the zap.
- Adabas router (on z/OS, ADASVC) zaps should first be applied to the load library. Then all Adabas nuclei and other MPM servers running on the router should be stopped and the router should be reinstalled to activate the zap. Finally, the Adabas nuclei and MPM servers should be restarted.

Finally, the distributed source library contains member ZAPOPT, which lists some optional zaps that you may choose to apply for the activation or deactivation of various features and optional user settings of Adabas. A ZAPOPT member will be included with each SM level distribution.

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Software AG Mainframe Product Compatibility

The following table describes Adabas 8.6 compatibility with other Software AG mainframe products, including prior releases of Adabas itself. You may need to upgrade your installation of the software if your existing release is not listed. .



Note: Any exceptions to the product compatibility described here will be covered in the documentation for the specific product.

Product	Compatible Version Levels and Notes
Adabas (ADA)	<p>The version of the Adabas SVC used must be the same as or greater than the version of any Adabas database used in your Adabas environment. For example, the Adabas 8.6 SVC can be run in the same environment with Adabas 8.5 databases. However, an Adabas 8.6 database cannot run in the same environment as an Adabas 8.5 SVC.</p> <p>For any given database (on disk), the Adabas nucleus and utilities of the same version and release level as the database must be used. If you need to convert a database to a higher version or release level, or revert it to a lower version or release level, the ADACNV utility of the higher level must be used.</p> <p>The Adabas link (ADALNK) routines can be used across versions. For example, Adabas 8.6 link routines can be used to issue calls to Adabas 8.5 databases. Software AG recommends that you use the Adabas 8.6 link routines for all programs that issue Adabas direct calls.</p>
Adabas Auditing (ALA)	ALA Version 2.3 SM1 or higher is required for Adabas 8.6 support.
Adabas Bridge for DL/I (ADL)	Version 2.3 SP2 supports Adabas 8.6.
Adabas Bridge for VSAM (AVB)	Version 5.1 SP1 supports Adabas 8.6 databases that do not make use of the expanded features (for example, spanned records, increased limits, or large object fields).
Adabas Caching Facility (ACF)	Version 8.6 supports Adabas 8.6 databases. Modules are supplied on the Adabas 8.6 load library. An Add-on license is required for enabling ACF.

Product	Compatible Version Levels and Notes
Adabas CICS Interface (ACI)	Version 8.6 supports Adabas 8.6 databases. Modules are supplied on the Adabas CICS (ACI) 8.6 load library.
Adabas Cluster Services (ALS)	Version 8.6 supports Adabas 8.6 databases. Modules are supplied on the Adabas 8.6 load library. An add-on license is required for enabling ALS.
Adabas Encryption (AEZ)	Version 8.6 supports Adabas 8.6 Encryption functionality. Modules are supplied on the Adabas 8.6 load library. An add-on license is required for enabling AEZ.
Adabas Delta Save Facility (ADE)	Version 8.6 supports Adabas 8.6 databases. Modules are supplied on the Adabas 8.6 load library. An add-on license is required for enabling ADE.
Adabas Fastpath (AFP)	The minimum supported level of Adabas Fastpath is version 8.2 SP2. For more information, refer to Using COR-based Add-ons.
Adabas IMS Interface (AII)	Version 8.6 supports Adabas 8.6 databases. Modules are supplied on the Adabas IMS (AII) 8.6 load library.
Adabas Native SQL (SQL)	Version 2.4 SP1 supports Adabas 8.6 databases that do not make use of the expanded features (for example, spanned records, increased limits, or large object fields).
Adabas Online System (AOS)	Version 8.6 supports Adabas 8.6 databases. Modules are supplied on the Adabas 8.6 load library. An add-on license is required for enabling AOS.
Adabas Parallel Services (ASM)	Version 8.6 supports Adabas 8.6 databases. Modules are supplied on the Adabas 8.6 load library. An Add-on license is required for enabling ASM.
Adabas Review (REV)	Version 5.2 SP2 and above support Adabas 8.6. For more information, refer to your <i>Adabas Review</i> documentation.
Adabas SAF Security (AAF)	The minimum supported level of Adabas SAF Security is version 8.4 SP1. For more information, refer to Using COR-based Add-ons.
Adabas Statistics Facility (ASF)	Version 8.1 SP1 fully supports Adabas databases 8.6.
Adabas SQL Gateway (ACE)	All currently supported versions of ACE support Adabas 8.6 databases. Please check the individual release notes for further information on which databases features are supported
Adabas System Coordinator (COR)	The minimum supported level of Adabas System Coordinator is version 8.3 SP1. For more information, refer to Using COR-based Add-ons.
Adabas Text Retrieval (TRS)	Version 2.1 SP4 works with Adabas 8.6 when the Adabas Text Retrieval 2.1 SP4 hyperdescriptor exit TRSHEX12 is enabled to run with the Version 8 interface by applying zaps TR21454 and TR21455. If you do use TR21454 and TR21455, the following additional Adabas Text Retrieval fixes must be applied as prerequisite zaps: TR21420, TR21421, TR21422, TR21423 and TR21424. These zaps can be found in Empower. It is not necessary to use the Adabas Hyperdescriptor Exit Stub in conjunction with Adabas Text Retrieval.
Adabas Transaction Manager (ATM)	The minimum supported level of Adabas Transaction Manager is version 8.2 SP2. For more information, refer to Using COR-based Add-ons.
Adabas Vista (AVI)	The minimum supported level of Adabas Vista is version 8.2 SP2. For more information, refer to Using COR-based Add-ons.

Product	Compatible Version Levels and Notes
Entire Net-Work (WCP)	Version 6.6 and above fully support Adabas 8.6 databases, as well as ACBX interface direct calls. Note: Using Point-to-point support for Adabas (ADATCP) requires Entire Net-Work Version 6.6 SP1 or above and Entire Net-Work TCP/IP Option Version 6.6 SP1 or above.
Entire System Server (NPR)	Entire System Server Version 3.7 and later versions fully support Adabas 8.6 databases.
Event Replicator for Adabas (ARF)	ARF Version 4.2 SM1 or higher is required for Adabas 8.6 support.
Event Replicator for Adabas (ARK)	Version 4.2 SP1 and above support Adabas 8.6. For more information, refer to your Event Replicator for Adabas documentation.
Natural (NAT)	Version 9.2 fully supports Adabas 8.6 databases.
Predict (PRD)	Version 8.5 SP2 fully supports Adabas 8.6 databases.
EntireX/webMethods EntireX (EXX)	All currently supported versions of EntireX support Adabas 8.6 databases. Please check the individual release notes for further information.

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Using COR-based Add-ons

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This document describes using the Adabas COR-based Add-on products with Adabas 8.6. It covers the following topics:

Introduction

You can use the following Adabas COR-based Add-on products in conjunction with Adabas 8.6:

- Adabas System Coordinator (COR) 8.3 SP1 and above
- Adabas SAF Security (AAF) 8.4 SP1 and above
- Adabas Fastpath (AFP) 8.2 SP2
- Adabas Transaction Manager (ATM) 8.2 SP2
- Adabas Vista (AVI) 8.2 SP2

Implementation

➤ Review the following information with regard to the implementation of the COR-based Add-on products with Adabas 8.6.

- 1 We always recommend that the latest available maintenance is applied to each of the COR-based Add-on products in use at your site.

The table below defines the minimum required maintenance.

Add-on Product	Version	Minimum maintenance for the support of Adabas 8.6
Adabas System Coordinator	8.3 SP1	MI831009, MI831032, MI831038, MI831048, MI831050
Adabas Fastpath	8.2 SP2	AW822048, AW822072, AW822075
Adabas SAF Security	8.4 SP1	AX841003, AX841004
Adabas Transaction Manager	8.2 SP2	AT822030
Adabas Vista	8.2 SP2	AV822055, AV822059, AV822062

- 2 Make sure the libraries for the relevant Adabas COR-based Add-on products are available to Adabas. Refer to the appropriate Add-on product installation documentation for the required library information.



Note: It is no longer necessary for a COR_{vrs}.LX_{nn} special purpose library to be concatenated above the Adabas library for Adabas nuclei.

- 3 If you have applied maintenance that modifies the Adabas System Coordinator stubs (COR S_{mm}) then relink your LNKGBLS modules to include the modified stubs. You will also need to relink any Adabas link modules that include a LNKGBLS module.
- 4 If, after loading the Adabas 8.6 INPL library, there is a requirement to (re)load the Adabas COR-based Add-on INPLs, (for example to apply an INPL update) then these INPL jobs should specify the **Check Date** option. This option loads the libraries in a date-sensitive manner by checking the dates of your existing INPL library and not allowing older members to replace members of the same name with newer dates. The use of the INPL Check Date option is determined by the following CMSYNIN command input (assuming the Natural input parameters in the job are specified in comma-delimited mode, or IM=D):

```
B,,,,,,Y
```

For reference, a sample INPL job CORI061 can be found in the JOBS library of the Adabas System Coordinator.

Required Adabas Maintenance

Fixes may be produced after the final freeze of the Adabas release. Depending upon timing some or all of these fixes may be supplied with the installation kit in an "all zaps" dataset (*Z000). These fixes, and any others that also appear in Empower, should be applied during the Adabas installation process. The following fixes are currently known to be required when using the Adabas COR-based Add-on products:

Adabas Version	Minimum maintenance for the support of Adabas COR-based Add-on products:
8.6 SP1	None

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AFPLOOK /AVILOOK Considerations

No consideration is necessary regarding the operation of AFPLOOK and AVILOOK with respect to this version of Adabas.

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End of Maintenance

For information on how long a product is supported by Software AG, access Software AG's Empower web site at <https://empower.softwareag.com>.

Log into Empower. Once you have logged in, you can expand **Products** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability application. This application allows you to review support information for specific products and releases.

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Documentation and Other Online Information

■ Software AG Documentation Website	52
■ Software AG TECHcommunity	52
■ Software AG Empower Product Support Website	52

The following online resources are available for you to obtain up-to-date information about your Software AG products:

Software AG Documentation Website

You can find documentation for all Software AG products on the Software AG Documentation website at <https://documentation.softwareag.com>.

Software AG TECHcommunity

You can find documentation and other technical information on the Software AG TECHcommunity website at <http://techcommunity.softwareag.com>. You can:

- Access product documentation, if you have TECHcommunity credentials. If you do not, you will need to register and specify "Documentation" as an area of interest. If you already have TECHcommunity credentials, you can adjust your areas of interest on the TECHcommunity website by editing your TECHcommunity profile. To access documentation in the TECHcommunity once you are logged in, select **Documentation** from the **Communities** menu.
- Access articles, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

Software AG Empower Product Support Website

You can find product information on the Software AG Empower Product Support website at <https://empower.softwareag.com>. This site requires Empower credentials. If you do not have an Empower user ID and password yet, you will find instructions for registering on this site (free for customers with maintenance contracts).

To submit feature/enhancement requests, get information about product availability, and download products and certified samples, select **Products & Documentation** from the menu once you are logged in.

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, select **Knowledge Center** from the menu once you are logged in.

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