

Adabas System Coordinator

Adabas System Coordinator 8.1 Release Notes

Version 8.1.2

June 2014

Adabas System Coordinator

This document applies to Adabas System Coordinator Version 8.1.2.

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 Adabas System Coordinator 8.1 Release Notes

This document describes the changes and enhancements provided with Adabas System Coordinator Version 8.1.

 **Important:** For supplemental information on the contents and installation of Adabas System Coordinator Version 8.1.2 Patch Level 02 for z/OS, refer to the following section: [Using COR Version 8.1.2 Patch Level 02 for z/OS](#).

 **Important:** For supplemental information on the contents and installation of Adabas System Coordinator Version 8.1.2 Patch Level 02 for VSE, refer to the following section: [Using COR Version 8.1.2 Patch Level 02 for VSE](#).

 **Important:** For supplemental information on the contents and installation of Adabas System Coordinator Version 8.1.2 Patch Level 02 for BS2000, refer to the following section: [Using COR Version 8.1.2 Patch Level 02 for BS2000](#).

Adabas System Coordinator is the required interface for the following Adabas products:

- Adabas Fastpath Version 8.1
- Adabas Vista Version 8.1
- Adabas SAF Security Version 8.1
- Adabas Transaction Manager Version 8.1

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2 Prerequisites

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New Features

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The following features are new for Version 8.1:

Support for Adabas Version 8

Adabas System Coordinator supports the extended Adabas control block (ACBX) and the new Adabas Buffer Description (ABD) command structures.

Adabas System Coordinator supports calls made with ACBX or ACB structures to Adabas Version 8 databases, and calls made with ACB structures to Adabas Version 7 databases. In both cases, the Version 8 System Coordinator components (ADAP0x modules) must be present in the target database.

Support for Adabas SQL Gateway Running with RACF Security (z/Os)

The Adabas SQL Gateway can (optionally) be installed with RACF-security enabled. This requires APF authorization and re-entrant operation which has additional installation considerations for products based upon Adabas System Coordinator. This operation mode is now supported via a new reentrant Coordinator Link module stub (CORLNKR).

New Link Module Stubs and Control Module for Triggers and Stored Procedures

New link module stubs are provided for enhanced support of Triggers and Stored Procedures. You may now link the stubs (CORS08 for z/OS, CORS18 for z/Vse) directly with the same ADALNK module used by the Adabas nucleus.

Additionally for z/Os and z/Vse implementations, a new control module (CORTSP) provides better management of COR client sessions running in TSP subtasks. CORTSP runs in its own subtask and manages initialization of the COR client environment. This gives:

- Virtual memory reduction. All TSP subtasks share the same COR client environment.
- Enhancedabend protection. A sessionabend in one subtask should not affect concurrent units of work in other subtasks.
- Session monitoring capability. The SYSCOR online application can be used to view session and memory usage information for TSP sessions.

Coordinator Inactive Until Controls Are Defined

Adabas System Coordinator can be installed in all client jobs, but will remain inactive until a runtime control is defined for the job. This enables an installation to deploy System Coordinator and add-on products in advance of their actual use in a job. It also enables the use of a common library-set between jobs that use add-on services and those that do not.

Runtime Control Overrides

Adabas System Coordinator allows configuration by runtime controls (previously called Job Parameters) through the SYSCOR administration tool.

Additionally there is increasing need for Adabas client sessions to operate differently within the same job. For example:

- Client ABC in CICSXYZ needs special tracing controls to be in use, all other clients do not
- Transaction D412 in CICSXYZ must be able to operate with a lower timeout limit than other transactions
- Stepname S0010 in job PRODA032 must be excluded from using the Adabas System Coordinator

Adabas System Coordinator Version 8.1 allows these configuration controls to be prescribed in advance by adding optional override controls to the original base job level controls.

For example, Transaction overrides can be defined for a TP monitor job. As a terminal operator moves from one transaction to another the runtime behaviors will alter dynamically according to what is prescribed in the override control.

In addition to being able to pre-set the different configurations to be adopted at runtime it is also now possible to dynamically change the runtime controls for your "current" session. So, you may decide to switch tracing on or off, for example, regardless of what is prescribed in the configuration file.

Site Information Container

You can store your own site information (variable data) in the configuration file. You can enter this along with client runtime controls. The use of this information is completely open to you. For example, for your own documentation notes about the associated controls. But, you may choose to make more sophisticated use of this information at runtime by using the new site information retrieval API. Up to 256 bytes can be supplied (and retrieved at runtime). For more information, refer to API To Retrieve Runtime Control Site Information.

Alternate System Configuration File

The configuration file is now a vital part of the runtime operation. As such it can become a single point of failure. Version 8.1 now allows you to nominate an alternate configuration file. Each session will attempt to use the primary and if it is unavailable the alternate will be used if it is nominated. Once a configuration file has been identified for a session that file will continue to be the primary file for that session until it becomes unavailable, and then the other file will be used. Consequently, over time different sessions may be using different files at the same time until you forcibly cause all sessions to switchover by making one or the other unavailable for a long period.

Guided Configuration File Conversion

On first logon to the SYSCOR application, SYSCOR recognises a Version 7.4 configuration file and guides you through a conversion procedure. The old definitions will be converted and copied to a new configuration file.

System Coordinator On/Off

In Version 7.4 System Coordinator is always active when the Coordinator stub is bound to the Link Module and add-on products are detected. In Version 8.1 there is a new runtime control parameter to specify that System Coordinator should be "Always on" or "Always off" for a job:

- "Always on" allows you to use Coordinator facilities (for example, automatic command retry), even when there are no active add-on products in the job.
- "Always off" can be useful when you want to use the same Link module for jobs that require Add-on product services and those that do not.

Entire Net-Work Support For COR Daemons

In a Multi-Systems environment COR daemons may now be configured to use either Entire Net-Work or IBM Parallel Sysplex (XCF) for cross-systems communication. XCF is the recommended communications protocol, where available.

Configuration Module Name Exit

The Configuration module (CORCFG) defines the SVC, database ID and File number of the Coordinator System File. Some installations may wish to create several System Files for different application environments. Each environment therefore needs it's own CORCFG module. Previously it has been necessary to use a different Load library for each copy of CORCFG. The Configuration Module name exit now enables an installation-written exit program to override the default name for each environment. All copies of CORCFG can then be loaded into the same library.

Critical Product Support

For some installations the correct functioning of an Add-on product is critical to the whole operation. By default System Coordinator auto-detects and invokes whichever add-ons are available at job start time, and ignores those that are not present. But it is now possible to specify that a product is critical to the operation, and that database activity should not be allowed if the product is missing or not functioning. The specification is made with a macro keyword in the CORMCFG macro and assembled into the CORCFG module. To protect against the possibility of the CORCFG module itself being unavailable, it is now possible to bind CORCFG with the Adabas Link module and the Coordinator stub.

Additionally, when Critical product support is defined the System Coordinator treats the System Configuration file as a critical component. Database activity will not be allowed if the file (or the Alternate file if specified) is not available.

Versioning Feature

The Versioning feature allows you to go through a gradual upgrade to adopt to using Version 8.1. This covers the clients and databases where this software is introduced. In TP systems a front-end to the ADALNK technology is introduced allowing (for example) ADALNK74 versus ADALNK81 to be used within the same client job. The ADALNK “path” is chosen according to transaction code (by default). This allows you to convert gradually.

A similar approach is taken for the software in Adabas target databases. You can use COR 7.4/AFP 7.4/etc in parallel to COR8.1/AFP 8/1/etc. This accomodates clients coming through the 7.4 versus 8.1 paths simultaneously.

4 Enhancements

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The following features have been enhanced for Version 8.1:

Command Retry

Command retry is extended to support definition of up to 15 response/sub-response combinations that will be automatically re-tried.

Messages CORI030I and CORI031I are extended to include the Adabas command code and job name.

Client Event Debug Monitor

The Event Monitor can be used to capture information about failing Adabas commands. It is useful for diagnosing problems with System Coordinator and add-on products, but can also be useful for debugging applications.

This version includes the following enhancements:

- The Monitor can be started and stopped dynamically.
- Monitoring can be selected for the whole job or a specific client session.
- Monitoring can be automatically stopped after a specified number of events have been captured.
- You can select the data areas to be captured for each event.
- All monitor controls are now presented and set on a single screen.

SYSCOR Administration Application

The SYSCOR Maintenance screens now support definition of the new runtime controls, overrides and customer-specific data.

SYSCOR supports automatic conversion of Version 7.4 configuration files to Version 8.1 format.

Multi-TCB Job types

This version includes a new "Multi-TCB" job type, together with a multi-TCB link module stub (CORS07). This is used for multi-tasking batch jobs and TP monitors running under z/OS platform.

Removal of Modified ADALNK Restriction

The Coordinator client component is activated by binding a stub module to the Client Adabas Link Module (ADALNK or other). This stub module is for use in client environments only. In previous versions it has been a documented restriction that the ADALNK module used by the COR daemon and Adabas servers must not contain the COR client stub. This remains the recommended procedure. However, in this version COR will auto-detect and bypass invalid client stub invocation in the COR daemon and Adabas servers.

It is still necessary to ensure that an unmodified ADALNK is used in Adabas utility jobs.

Improved Runtime Control Maintenance Screens

The SYSCOR Maintenance screens now give additional help when defining TP services that support dynamic transaction routing (DTR). A single control for the complete service is defined first. Then, this is expanded by defining the jobs for the service – (for example, the names of the CICS regions that participate in the DTR service).

Jobs that do not require DTR services do not need to run in daemon-mode. The 'Managed by daemon' option has been removed for these job types.

5 Discontinued Support

Beginning with Adabas System Coordinator Version 8.1, Adabas Version 7.1.3 is no longer supported.

6 Installation

Install Adabas System Coordinator before any Adabas add-on options are installed. Refer to the section Adabas System Coordinator Installation for more information.

The Adabas System Coordinator product supplied with Adabas is in demonstration mode. In this mode, the only components installed are those required to support the Adabas Fastpath AFPLOOK tool and the Adabas Vista AVILOOK tool. The full product is supplied when any add-on product is purchased, and Adabas System Coordinator switches automatically to full execution mode.

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Required Maintenance

During the final certification stages of this release fixes are produced after the final freeze of the installation kit. Depending upon timing some or all of the available fixes may be supplied with the kit in an "all zaps" dataset. These fixes should be applied during the installation process. The following fixes are currently known to be required:

Fixes Required For Adabas System Coordinator

MI812001, MI812002, MI812003, MI812004, MI812006

Fixes Required For Adabas Version 8.1.2

AI812002 (For BS2000, this zap has been applied in the release library ↵
\$SAG.ADA812.MOD). ↵

Fixes Required When Installing On BS2000 Systems

MB812001

Fixes Required When Installing On z/Vse Systems

AI812003
AD812015

8 Restrictions

Adabas client-based products are not compatible with the Adabas DBID/SVC routing feature. If you wish to use multiple SVCs in the same client job you should implement the COR versioning feature instead.

9 Considerations for z/VSE

Login and stepname runtime control overrides are not supported.

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Considerations for BS2000

COR requires both the COR load library and the Adabas load library to be defined in the *BLSLIBnn* concatenation of all Adabas databases where COR is used.

When used with Adabas Version 7.4, the supplied COR812.LX01 library is required. This contains the COR Version 8.1 database components (*ADAPOx*, *AFPADA*, *AVIADA*). This library must be added to the start of the load library concatenation in all database startup procedures, replacing the equivalent modules in the Adabas Version 7.4 library. The library must be named in the *ADD-FILE-LINK* statements for the *DDLIB* and the *BLSLIBnn* file concatenation.

11 Using COR Version 8.1.2 Patch Level 02 for z/OS

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This section describes the contents of Patch Level 02 and the actions required to install this patch level.

Cumulative Updates Provided and Installation Checklist

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- [Installation Checklist](#)
- [Co-Requisite Maintenance](#)

Cumulative Updates Provided

Patch Level 02 contains the following cumulative updates:

- Load library cumulative update COR812.L002.
- Source library cumulative update COR812.S002.
- INPL cumulative update COR812.IS07. This is the latest update for SYSCOR.
- Jobs library cumulative update COR812.JC02. This is for z/OS only.

Installation Checklist

The following checklist summarizes the actions required to install Patch Level 02:

Library/Updates	Action Required
Load library cumulative update COR812.L002	<p>This L002 library must be added to the start of the load library concatenation of all</p> <ul style="list-style-type: none"> ■ client jobs and TP systems ■ Coordinator daemons ■ Adabas nucleus tasks that are using COR and add-on products. <p>In addition, the Adabas link modules must be re-linked to include the appropriate, updated CORsnn module.</p>
Source library cumulative update COR812.S002	<p>This S002 library must be concatenated with the originally supplied COR812 source library.</p>
INPL cumulative update COR812.IS07	<p>Install INPL update 7 into your Natural environment using a standard INPL batch job.</p>
Jobs library cumulative update COR812.JC02	<p>Use the following corrected JCL examples instead of those previously supplied: CORI080H, VERI065, VERI085, VERI088.</p>
Versioning table	<p>Re-build versioning table. Only required for z/OS sites using Versioning. See below for more information on how to re-build the versioning table.</p>

Co-Requisite Maintenance

Before using this patch level, ensure that the following maintenance zaps have been applied:

Platform/Product	Zaps
for z/OS: Adabas Version 8.1.3	AI813061, AO813038, AO813039, AO813041, AO813042 and AO813046.
for z/OS: Adabas Version 8.1.4	AI814011, AO814008, AO814009, AO814011, AO814012 and AO814016.
for CICS: Adabas Version 8.1.3	ACI813X002
for CICS: Adabas Version 8.1.4	CI814006
for IMS: Adabas Version 8.1.3	II813003
for IMS: Adabas Version 8.1.4	II814001
for Adabas Fastpath	Inpl AFP812I006 or above. Zaps AW812062 and AW812064.
for Adabas Transaction Manager	Inpl ATM812I002 or above.
for Adabas Vista	Inpl AVI812I009 or above.

Support for CICS Threadsafe Operation

Support for CICS threadsafe operation, which was originally planned for delivery with COR 8.2, is being delivered with this patch level to address issues reported when using COR in conjunction with sibling products.

CICS threadsafe operation can provide gains in throughput. However, applications must be compatible with threadsafe operation. Please consult IBM documentation for further information.

Some features of COR at 8.1 are incompatible with CICS threadsafe operation, such as setting debug events to take diagnostics (etc.). A new Client runtime control is being introduced to allow these features:

```

14:31:03 ***** A D A B A S   SYSTEM COORDINATOR 8.1.2 (I007) ***** 2010-02-10
          - System Coordinator Runtime Controls -                        U11310M5
Run-mode: Coordinator not installed      Operation mode (mark one):
Type: CICS                               Use normal autodetect approach: X
Name: DAEFCI18                           Enable COR even if no products: _
                                           Disable all products including COR: _

General Settings
  Estimated Client Sessions: 1000_____ API runtime overrides..: N (Y/N)
  Memory pool extents (k)..: 256_
  Use additional exits.....: N (Y/N)    Threadsafe operation...: N (Y/N)
  Maximum idle time (sec)..: 3600_____ Non-terminal idle time.: _____
  Generate RSP009/79 (Y/N)..: Y (until 0_____ seconds elapse)

```

The default is not to use threadsafe mode (for 8.1), so these features continue to operate correctly. To use threadsafe, the control flag must be set to "Y". Setting the control flag to "Y" will cause the debug (etc.) features to be ignored. To use the debug features, the control flag must be set to "N", and then changed back to "Y" when debugging is completed.

The default behavior will be reversed at COR 8.2 to allow threadsafe by default.

Running threadsafe requires all modules loaded by COR, and other client-based products to be available in the CICS RPL library concatenation, with appropriate CICS PPT definitions.

Please note that, whether running threadsafe or not, COR now requires use of the Adabas task related user exit in CICS. If the task related user exit is not in use, all Adabas commands are rejected with response 101 subcode 88.

Versioning Support for Re-entrant Link Module

There have been a number of changes to the Adabas (batch) link module (ADALNK and ADALNKR) with the introduction of ADA 8.1. This update brings the COR versioning feature into line with this new behavior. Sites using the versioning feature must rebuild versioning tables. For more information, refer to the section Versioning Tool.

12 Using COR Version 8.1.2 Patch Level 02 for VSE

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This section describes the contents of Patch Level 02 and the actions required to install this patch level.

Cumulative Updates Provided and Installation Checklist

- [Cumulative Updates Provided](#)
- [Installation Checklist](#)
- [Co-Requisite Maintenance](#)

Cumulative Updates Provided

Patch Level 02 contains the following cumulative updates:

- Cumulative update library COR812.L002, containing sublibrary SAGLIB.COR81202.
- INPL cumulative update COR812.IS07. This is the latest update for SYSCOR.

Installation Checklist

The following checklist summarizes the actions required to install Patch Level 02:

Library/Updates	Action Required
Cumulative update library COR812.L002	<p>This L002 sublibrary must be added to the start of the load library concatenation of all</p> <ul style="list-style-type: none"> ■ client jobs and TP systems ■ Coordinator daemons ■ Adabas nucleus tasks that are using COR and add-on products. <p>In addition, the Adabas link modules must be re-linked to include the appropriate, updated CORSnn module.</p> <p>The sublibrary also includes replacement CORMCFG and CORMPUX macros and should be added to the start of the source library concatenation for any assembly job that uses those macros.</p>
INPL cumulative update COR812.IS07	Install INPL update 7 into your Natural environment using a standard INPL batch job.

Co-Requisite Maintenance

Before using this patch level, ensure that the following maintenance zaps have been applied:

Platform/Product	Zaps
for VSE: Adabas Version 8.1.3	AI813061, AD813042, AD813043 and ADA813X003
for VSE: Adabas Version 8.1.4	AI814011, AD814012 and AD814013.
for Adabas Fastpath	Inpl AFP812I006 or above. Zaps AW812062 and AW812064.
for Adabas Transaction Manager	Inpl ATM812I002 or above.
for Adabas Vista	Inpl AVI812I009 or above.

Support for CICS Threadsafe Operation

Support for CICS threadsafe operation, which was originally planned for delivery with COR 8.2, is being delivered with this patch level to address issues reported when using COR in conjunction with sibling products.

CICS threadsafe operation can provide gains in throughput. However, applications must be compatible with threadsafe operation. Please consult IBM documentation for further information.

Some features of COR at 8.1 are incompatible with CICS threadsafe operation, such as setting debug events to take diagnostics (etc.). A new Client runtime control is being introduced to allow these features:

```

14:31:03 ***** A D A B A S   SYSTEM COORDINATOR 8.1.2 (I007) ***** 2010-02-10
          - System Coordinator Runtime Controls -                      U11310M5
Run-mode: Coordinator not installed      Operation mode (mark one):
Type: CICS                               Use normal autodetect approach: X
Name: DAEFCI18                           Enable COR even if no products: _
                                           Disable all products including COR: _

General Settings
  Estimated Client Sessions: 1000_____ API runtime overrides..: N (Y/N)
  Memory pool extents (k)..: 256_
  Use additional exits.....: N (Y/N)    Threadsafe operation...: N (Y/N)
  Maximum idle time (sec)..: 3600_____ Non-terminal idle time.: _____
  Generate RSP009/79 (Y/N)..: Y (until 0_____ seconds elapse)

```

The default is not to use threadsafe mode (for 8.1), so these features continue to operate correctly. To use threadsafe, the control flag must be set to "Y". Setting the control flag to "Y" will cause the debug (etc.) features to be ignored. To use the debug features, the control flag must be set to "N", and then changed back to "Y" when debugging is completed.

The default behavior will be reversed at COR 8.2 to allow threadsafe by default.

Running threadsafe requires all modules loaded by COR, and other client-based products to be available in the CICS RPL library concatenation, with appropriate CICS PPT definitions.

Please note that, whether running threadsafe or not, COR now requires use of the Adabas task related user exit in CICS. If the task related user exit is not in use, all Adabas commands are rejected with response 101 subcode 88.

13 Using COR Version 8.1.2 Patch Level 02 for BS2000

- Cumulative Updates Provided and Installation Checklist 36

This section describes the contents of Patch Level 02 and the actions required to install this patch level.

Cumulative Updates Provided and Installation Checklist

- [Cumulative Updates Provided](#)
- [Installation Checklist](#)
- [Co-Requisite Maintenance](#)

Cumulative Updates Provided

Patch Level 02 contains the following cumulative updates:

- Load library cumulative update COR812.L002.
- Source library cumulative update COR812.S002.
- INPL cumulative update COR812.IS07. This is the latest update for SYSCOR.

Installation Checklist

The following checklist summarizes the actions required to install Patch Level 02:

Library/Updates	Action Required
Load library cumulative update COR812.L002	This L002 library must be added to the start of the load library concatenation of all <ul style="list-style-type: none"> ■ client jobs and TP systems ■ Coordinator daemons ■ Adabas nucleus tasks that are using COR and add-on products. In addition, the Adabas link modules must be re-linked to include the appropriate, updated CORSnn module.
Source library cumulative update COR812.S002	This S002 library must be concatenated with the originally supplied COR812 source library.
INPL cumulative update COR812.IS07	Install INPL update 7 into your Natural environment using a standard INPL batch job.

Co-Requisite Maintenance

Before using this patch level, ensure that the following maintenance zaps have been applied:

Platform/Product	Zaps
for Adabas Fastpath	Inpl AFP812I006 or above. Zaps AW812062 and AW812064.
for Adabas Transaction Manager	Inpl ATM812I002 or above.
for Adabas Vista	Inpl AVI812I009 or above.

