Active Parameters

Note:
The  button above the table in detail-view allows switching from regular layout of the tables to expert layout. Expert layout will list also list Adabas nucleus parameters ADARUN for mainframe databases and ADANUC for open systems databases.

To review the parameter settings for an Adabas database:

1. Select an Adabas database in tree-view and expand it.
2. Select **Active Parameters** in tree-view.

   The **Active Parameters** for the database are displayed in tables in detail-view:

   - Pools and Queues
   - Time Limits
   - Logging
   - Options
   - User Exits to be Used (for open systems databases only)

Note:
The sections in the table can be collapsed and expanded by clicking the arrow in the section heading.

Active Parameters for Mainframe Databases

When Active Parameters is selected in tree-view, the following table is displayed in detail-view:

- Pools and Queues
- Time Limits
- Logging
- Options

The meaning of ON/OFF options in the **Logging** section of the active parameters panel are explained in the following table:

Parameter	Action
Command Logging	Enable command logging.
Log Adabas Control Block	Enable Adabas control block logging.
Log Format Buffer	Enable format buffer logging.
Log Record Buffer	Enable record buffer logging.
Log Search Buffer	Enable search buffer logging.
Log Value Buffer	Enable value buffer logging.
Log ISN Buffer	Enable ISN buffer logging.
Log I/O Activity	Enable I/O activity logging.
Log User Exit B Data	Log User Exit B data (only available if CLOGLAYOUT=5 (the default) is also used).
Merge Cluster Command Logs automatically	Enable automatic merging of cluster command logs.
Protection Log Required	Indicates whether a protection log is required for this session (the default is **On**).

The meaning of ON/OFF options in the **Options** section of the active parameters panel are explained in the following table:

Parameter	Action
Log AOS/DBS Update	Log commands that update the active nucleus coming from AOS or ADADBS.
Batch Support	Enable batch support.
Async. by Vol-Ser	Flush buffers asynchronously based on volume serial number.
Cache Facility	Enable support for Dynamic Caching.
Delta Save Facility	Enable support for the Delta Save Facility.
Resource Manager	Enable distributed transaction processing as a resource manager with other resource managers (databases) coordinated by a transaction manager.
Transaction Manager	Enable distributed transaction processing as a transaction manager.
Ignore DIB Entry	Ignore and delete an existing data integrity block (DIB) entry in the Associator and initiate a new session.
Ignore Work Part 4	Ignore data related to the recovery of previously incomplete transactions that resides in the two-phase commit area (Work part 4) and start the nucleus anyway. For emergency use only: contact your Software AG technical support center before using.
LOCAL Nucleus	Restrict a nucleus to local use only (no connection to other Entire Net-Work nodes).
Non-DE Search	Restrict searches to descriptors only in search buffers (no searches on nondescriptors).
OPEN Required	Require an OPEN command as the first command of a user session.
Read-Only Session	Restrict a database session to reading data only (no updates allowed).
Ext. Error Recovery	Enable extended error handling and message buffering.
Triggers and Procedures	Enable use of triggers and stored procedures.
UTI-only Session	Restrict a database session to running utilities only.
TCP/IP Access Control	Enable a direct TCP/IP link to the Adabas nucleus (UES-enabled databases only).

To modify the parameter settings for an Adabas mainframe database:

1. Click **Modify**.

The parameter tables are displayed. Where settings can be modified, text boxes allow you to enter the required values; where options can be selected, check boxes can be marked.

2. The following parameter values can be modified:

   Pools and Queues

   - Sort Area
   - Int. User Buffer
   - Parallel LFIOP I/O
   - Hold Queue Limit
   - Active Command IDs per User
   - ISN per TBI Element

   Time Limits

   - Command Time
   - Bufferflush Duration
   - Time Limit Sx-Commands
   - Nonactivity ACC-User
   - Nonactivity ET-User
   - Nonactivity EXU-User
   - Transaction Time

   Logging (on/off)

   The following parameters can be set:

   - Command Logging
   - Log Adabas Control Block
   - Log Format Buffer
   - Log Record Buffer
   - Log Search Buffer
   - Log Value Buffer
   - Log ISN Buffer

- Log I/O Activity
- Log User Exit B Data
- Merge Cluster Command Logs automatically
- Protection Log Required (the default is **On**)

Options (on/off)

The following options can be checked:

- Log AOS/DBS Update
- Batch Support
- Async by Vol-Ser (the default is **On**)
- Read-Only Session
- UTI-Only Session

For detailed information about ADARUN parameters and their possible values, see *ADARUN Control Statement* in the *Adabas Operations* documentation.

3. Modify the settings in the table as required and click **OK** to confirm your changes and to return to the **Active Parameters** display.

Active Parameters for Open Systems Databases

When Active Parameters is selected in tree-view, the following table is displayed in detail-view:

- Pools and Queues
- Time Limits
- Logging
- Options
- User Exits to be Used

Note:
A dropdown menu allos the user to alternate the display between the current and the default parameters.

The meaning of ON/OFF options in the **Logging** section of the active parameters panel are explained in the following table:

Parameter	Action
Log Adabas Control Block	Enable Adabas control block logging.
Log Format Buffer	Enable format buffer logging.
Log Record Buffer	Enable record buffer logging.
Log Search Buffer	Enable search buffer logging.
Log Value Buffer	Enable value buffer logging.
Log ISN Buffer	Enable ISN buffer logging.
Log I/O Activity	Enable I/O activity logging.
Log Buffer Description	Enable buffer description logging.
Command Log Layout	New CLOG Layout
Protection Log required	Indicates whether a protection log is required for this session (the default is **On**).

The meaning of ON/OFF options in the **Options** section of the active parameters panel are explained in the following table:

Parameter	Action
Truncation	Enable truncation of alphanumeric field values.
Utilities Only	If this is enabled, all non-utility calls are rejected and the DBA has exclusive control over all database files.
Local Utilities	If `Local Utilities` is enabled, remote utilities cannot be executed.
Open Required	If `Open Required` is enabled, an open (OP) command must be issued as the first command of a user session. This option should be set if lnk_set_adabas_id is used when calling Adabas from application servers, and also when using Net-Work, otherwise in these cases Adabas cannot guarantee transaction integrity following an ADANUC restart.

Parameter	Action
Fault Tolerant AR	When `Fault Tolerant AR` is enabled, the nucleus behaviour in the event of an Adabas error during autorestart can be controlled. If an error occurs for a given file, a detailed entry is made in the nucleus log, but the autorestart continues. When the autorestart completes, the DBA can restore and regenerate the file by using ADABCK RESTORE and ADAREC REGENERATE for the affected file. If however the error occurred for the index of a file, it is sufficient to rebuild the file's index by using the REINVERT function of ADAINV. If `Fault Tolerant AR` is not selected, Adabas aborts an autorestart if an error is detected, and this can cause the database to be in an inconsistent state. **Note:** The nucleus log can be displayed by right-clicking on the database name and choosing **Nucleus Log** in the dropdown menu.
Autorestart Only	The AUTORESTART_ONLY keyword shuts down the nucleus immediately after its startup sequence has completed. If an autorestart is pending, the autorestart will be performed. No user commands or utility calls will be accepted by the nucleus.
Read Only	The READONLY option causes ADANUC to run in read-only mode. Refer to the *Adabas for Open Systems Administration* documentation for more details.
XA	The keyword XA indicates that the server will support distributed transaction processing according to the X/Open XA specification. If the Adabas XA interface is to be used by an application, OPTION=XA must be used. See *XA Support* in the *Adabas for Open Systems Administration* documentation for further information.
Auto Expand	Enable auto expand when the database becomes full. You can specify reserved and temporary locations for database auto expand by right-clicking the database name and selecting **Locations** in the dropdown menu. For detailed information see the *Adabas Extended Operation* documentation.
Write Before Image to PLOG	Enable `Write Before Image to PLOG`.
Behaviour on Conflict During AUTORESTART	If **Continue** is enabled, the autorestart will continue even in case of a conflict (the default is **Abort**).

For more information on the nucleus parameters see the *Adabas Open Systems Utilities* documentation.

To modify the parameter settings for an Adabas open systems database:

1. Click **Modify**.

   The parameter tables are displayed. Where settings can be modified, text boxes allow you to enter the required values; where options can be selected, check boxes can be marked.

2. The following parameter values can be modified:

   Pools and Queues

   - Number of Threads
   - User Queue
   - Hold Queue Limit
   - Group Commits Limit
   - Number of Client Threads Elements
   - Max. Usage of Buffer Pool Before Flushed to Disk
   - Attached Buffer Length
   - Attached Buffer Length Extended
   - Buffer Pool
   - Work Pool
   - XA Area Limit
   - Parallel I/O Request Limit
   - Parallel Records Read Limit
   - Parallel Blocks Read Limit
   - Parallel Total Read Limit

   Time Limits

   - Nonactivity ACC-User
   - Nonactivity ET-User
   - Nonactivity EU-User
   - Transaction Time

Logging (on/off)

The following parameters can be set:

- Log Adabas Control Block
- Log Format Buffer
- Log Record Buffer
- Log Search Buffer
- Log Value Buffer
- Log ISN Buffer
- Log Fault Tolerant Auto Activity
- Log I/O Activity
- Log Buffer Description
- Maximum Command Log Size
- Command Log Layout (New CLOG Layout)
- Protection Log Required (the default is **On**)

Options (on/off)

The following options can be checked:

- Utilities Only
- Local Utilities
- Open Required
- Fault Tolerant AR
- Autorestart Only
- Read Only
- XA
- Auto Expand
- Write Before Image to PLOG (the default is **On**)
- Behaviour on Conflict During AUTORESTART (the default is **Abort**)

User Exits to be Used

User exits can be activated or deactivated as required.

3. Modify the settings in the table as required and click **OK** to confirm your changes and to return to the **Active Parameters** display.

Environment Extensions

To display the environment extensions for an Adabas database:

1. Select an Adabas database in tree-view and expand it.
2. Right-click **Active Parameters** in tree-view and choose **Environment Extensions** in the dropdown menu.

   The **Environment Extensions** for the database are displayed in detail-view.
3. To add extensions, click **Add**.
4. Enter name and value of the extensions as required and click **OK** to confirm your settings.

Action Users

To add an action user:

1. Select an Adabas database in tree-view and expand it.
2. Right-click **Active Parameters** in tree-view and choose **Action Users Extensions** in the dropdown menu.

   The **Add Action User** panel is displayed in detail-view.
3. Enter the user name and click **OK** to confirm your settings.

Node Parameters

To display the node parameters for an Adabas database:

1. Select an Adabas database in tree-view and expand it.
2. Right-click **Active Parameters** in tree-view and choose **Node Parameters** in the dropdown menu.

   The **Node Parameters** for the database are displayed in detail-view:

   - Adabas Operations
   - Logging
   - Archive Log Files
   - Alerts

3. In the table you can activate/deactivate and enable/disable these parameters according to your requirements and browse to the locations where the reports should be written to.

   Click **Save** to save your new settings.

Database Actions

To display the database actions for an Adabas database:

1. Select an Adabas database in tree-view and expand it.
2. Right-click **Active Parameters** in tree-view and choose **Database Actions** in the dropdown menu.

   The **Database Actions** for the database are displayed in detail-view:

   - Nucleus Startup
   - Nucleus Termination
   - Delete Checkpoints
   - Increase Size of ASSO
   - Increase Size of DATA
   - Increase Nucleus Parameter LBP
   - Increase Nucleus Parameter LS
   - Increase Nucleus Parameter LWP
   - Increase Nucleus Parameter NH
   - Increase Nucleus Parameter NT
   - Increase Nucleus Parameter NU
   - Observe Number of Offline Checkpoint
   - Recover Lost Blocks Required
   - Reorder File
   - Backup Database
   - Nucleus Termination Using ’adastop’
3. In the table you can enable or disable these parameters according to your requirements and browse to scripts you may wish to use.

   Click **Save** to save your new settings.