Adabas Review

Administration

Version 5.3.1

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ADABAS & NATURAL

Table of Contents

1 About this Documentation

Document Conventions

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

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- Open and update support incidents.

- Add product feature requests.

Data Protection

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

2   Maintaining User Profiles

The user profile system provides a series of menus to help you generate user profiles that define access rules for Adabas Review users. You may create profiles for new users, change access rules for existing users, and purge user profiles that are no longer required.

User profiles can be created for new users, changed for existing users, and purged when no longer required. User profiles can be set up so users have access only to specific DBIDs. If a user has access needs that are different from the majority, a user profile can be created to accommodate those needs. Such a profile is generated by customizing a copy of the default profile.

You can also set up group profiles, based on the groups set up by your Natural Security administrator. Natural Security is only required if you want to use group IDs, but not otherwise.

The Supplied User Profile Definitions

Adabas Review provides two default Natural profiles that provide access to SYSREVDB for users who do not have a profile defined for them. Both profiles have administrative privileges, providing unrestricted access to Adabas Review functions.

- One of the supplied user profile is called "DEFAULT".

  Note: The DEFAULT user profile initially provides unrestricted access to Adabas Review functions. We recommend that you first create a new user profile for the system administrator and other privileged users; then modify the DEFAULT profile so that it conforms to the needs of the majority of users. If the default profile is customized so that the access rules meet the needs of the majority of Adabas Review users, the need for individual user profiles can be eliminated.

  The DEFAULT profile cannot be deleted. In addition, Adabas Review will not allow you to turn the DEFAULT profile or any administrator profile into a non-administrator profile if another administrator profile is not available.

- The other user profile is saved under the name of the user ID of the user initializing the system (the user who entered MENU).

When a user logs on, Adabas Review looks for a group profile first and then for an individual user profile. It uses the first profile found (group profiles take precedence over individual user profiles). If neither a group nor individual user profile is found, an appropriate default profile is used.

Administrator Profiles

An administrator profile is a user profile that has access to everything. Adabas Review determines automatically whether a user profile is an administrator profile, based on the access rule settings specified for the profile.

To create an administrator profile, make sure that all the access rules for the user are set to "Y" (except optionally the **Group Profile?** and **Confirm Purge/Save Requests?** access rules, which can be set to "N" even for administrator profiles.

> **Note:** We recommend that the first user profile you create be another administrator profile (the default profile is distributed as an administrator profile). Then modify the default profile so that it conforms to the needs of the majority of your users.

Adabas Review will not allow you to turn the default profile or any administrator profile into a non-administrator profile if another administrator profile is not available.

Group Profiles

You can set up group profiles, based on the groups set up by your Natural Security administrator. When a user logs on, Adabas Review looks for a group profile first and then for an individual user profile. It uses the first profile found (group profiles take precedence over individual user profiles). If neither a group nor individual user profile is found, the provided default profile is used.

> **Note:** Natural Security is only required if you want to use group IDs, but not otherwise.

To create a group profile, be sure to set the **Group Profile?** setting to "Y".

Administrators can be members of a group.

Accessing the User Profile System

≫ **To access the user profile system:**

■ Enter `UP` on the command line of the Adabas Review main menu and press ENTER.

The User Profile System menu appears as shown below:

```
 14:47:41                 A D A B A S  -  R E V I E W              2016-08-23
                            User Profile System                           ↵
                                                                          ↵
                                                                          ↵
                    Code              Description                         ↵

                    ----     ----------------------------------          ↵

                     EU           Edit User Profile                      ↵

                     LU           List User Profiles                     ↵

                    ----     ----------------------------------          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
                                                                          ↵
 Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help      Exit                                               Menu  ↵
   ↵
```

Code	Description
EU	Edits a profile for a new or existing user.
LU	Displays a list of existing user profiles, including the default profile.

From the list of existing user profiles, you can select a particular profile to be edited or purged.

Migrating User Profiles

When you access the user profile system, Adabas Review verifies that your profiles follow all current Adabas Review profile conventions and standards. If they do not, Adabas Review attempts to migrate them to the most current standard. The following screen appears:

```
14:58:25                   A D A B A S  -  R E V I E W              2016-08-02
                             User Profile Migration

                                 W e l c o m e

+-----------------------------------------------------------------------------+
|                                                                             |
|           Review has detected that the user profiles must be                |
|           migrated to the current level before Review can be                |
|           started.                                                          |
|                                                                             |
|           Press ENTER to begin migration or PF3 to exit.                    |
|                                                                             |
|           Note: Pressing PF3 will terminate Review.                         |
|                                                                             |
|                                                                             |
|                                                                             |
+-----------------------------------------------------------------------------+
```

Press ENTER to migrate your profiles to the current standard. Press PF3 to exit Adabas Review without performing the migration.

For a conversion of user profiles run program CONVUPRO if one of the following conditions applies:

- you migrate from Version 4.6 SP2, 4.7 SP1 or 4.7 SP2 to a higher version before you have applied fix IX46232, IX47114 or IX47206;

- the LU command in the User Profiles menu does not show user profiles, although there are some in library SYSREVDU;

- the long name of a Natural Resource user profile in SYSREVDU is "Review User Profile".

Listing User Profile Definitions

The `List User Profiles` (LU) function displays a list of the user profiles that have been defined.

≫ **To access a list of defined user profiles:**

1   From the User Profile System menu, enter the code LU on the command line and press ENTER.

A User Profiles screen, similar to the one shown below, is displayed:

```
 14:47:03               A D A B A S  -  R E V I E W              2016-08-23
                               User Profiles                               ↵


                                                                           ↵

  Sel  Userid   Description           Sel  Userid    Description           ↵


 +--------------------------------------------------------------------------+
 | __ > DEFAULT  Default User Profile    __   USR00010  Generated Prof 00010 |
 | __ > REVIEW   Review Administrator    __   USR00011  Generated Prof 00011 |
 | __ > TESTME   TEST PROFILE            __   USR00012  Generated Prof 00012 |
 | __   USR00001 Generated Prof 00001    __   USR00013  Generated Prof 00013 |
 | __   USR00002 Generated Prof 00002    __   USR00014  Generated Prof 00014 |
 | __   USR00003 Generated Prof 00003    __   USR00015  Generated Prof 00015 |
 | __   USR00004 Generated Prof 00004    __   USR00016  Generated Prof 00016 |
 | __   USR00005 Generated Prof 00005    __   USR00017  Generated Prof 00017 |
 | __   USR00006 Generated Prof 00006    __   USR00018  Generated Prof 00018 |
 | __   USR00007 Generated Prof 00007    __   USR00019  Generated Prof 00019 |
 | __   USR00008 Generated Prof 00008    __   USR00020  Generated Prof 00020 |
 | __   USR00009 Generated Prof 00009    __   USR00021  Generated Prof 00021 |
 +--------------------------------------------------------------------------+
                 > Admin   > Group   > Admin+Group                          ↵


                                                                           ↵


                                                                           ↵

 Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help        Exit                      -      +                  Menu ↵
   ↵
```

Note the cursor (>) before each user ID on this screen. This cursor and its presence identify the profile type:

Cursor Present?	Cursor Color	Description
Yes	yellow	The user profile is an administrator profile.
Yes	blue	The user profile is a group profile.
Yes	pink	The user profile is both an administrator and a group profile.
No	---	The user profile is a regular profile. It is neither an administrator profile nor a group profile.

2   From this screen, you may edit or purge a particular user profile.

If you enter a question mark (?) or an invalid value on the selection line preceding a profile name and press ENTER, the Available Functions window appears displaying a list of the available commands:

Command	Description
EU	Edit the selected profile.
PU	Purge the selected profile.
.	Exit the window without selecting any command.

Creating a New User Profile

≫ **To create a new user profile:**

1   From any screen in Adabas Review, type the following string on the command line and press ENTER:

```
UP EU userid
```

Or:

From any screen in the **user profile system**, type the following string on the command line and press ENTER:

```
EU userid
```

Or:

```
EU
```

Adabas Review creates a profile for the user by copying the default profile and displays it for editing on the Edit Profile screen.

The Edit Profile is actually a series of several screen pages. You can navigate between these pages using your PF11 (forward) and PF10 (backward) keys.

```
 14:51:07                A D A B A S  -  R E V I E W              2018-01-29
                                Edit Profile
                                                                        ↵

         General Settings                    Specific DBIDs to Monitor
 +----------------------------------------------------------------------------+
 | User ID / Group ID ..... _____        _____  _____  _____  _____  _____  ↵
 |
 | Group Profile? ............... N         _____  _____  _____  _____  _____  ↵
 |
 | Description: _____        _____  _____  _____  _____  _____  ↵
 |
 | Access User Profiles? ........ Y         _____  _____  _____  _____  _____  ↵
 |
 | Access Review? ............... Y         _____  _____  _____  _____  _____  ↵
 |
 | Monitor All Targets? ......... Y         _____  _____  _____  _____  _____  ↵
 |
 | Restrict list to allowed DBIDs? N        _____  _____  _____  _____  _____  ↵
 |
 | Default Nucleus Target ....  LFILE       _____  _____  _____  _____  _____  ↵
 |
 | Default Repository DBID ...  LFILE       _____  _____  _____  _____  _____  ↵
 |
 | Default Repository File ...  LFILE       _____  _____  _____  _____  _____  ↵
 |
 |                                          _____  _____  _____  _____  _____  ↵
 |
 | Confirm Purge/Save Requests? .. Y        _____  _____  _____  _____  _____  ↵
 |
 |     Press PF11 to scroll right           _____  _____  _____  _____  _____  ↵
 |
 +--------------------- (Administrator Privileges) ----------------------+

 REV00101 - NEW USER PROFILE
 Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Save  Reset                     ===>  Menu ↵
  ↵
```

2   Customize the user's profile, as required.

■ You must specify a unique user ID or group ID name in the **User ID / Group ID** field. User and group IDs must be up to eight alphanumeric characters long and begin with either an alphabetic letter or a national ($, @, or #) character. Hyphens are also allowed in user and group IDs.

■ You must provide a description for the profile in the **Description** field. Twenty alphanumeric characters are provided in this field for the description.

■ If the profile definition is for a group profile, set the **Group Profile?** field to "Y".

- Use PF11 and PF10 to scroll between the pages of profile settings, specifying access rule settings for the profile. For information about the access rules, read *User Profile Access Rules* (elsewhere in this section).

- To create an administrator profile, make sure that all the **access rules** for the user are set to "Y" (except optionally the **Group Profile?** and **Confirm Purge/Save Requests?** access rules, which can be set to even for administrator profiles.

3   When the profile provides appropriate access privileges, press PF5 to save the profile.

Editing an Existing User Profile

> **To edit an existing user profile:**

1   List the available user profiles as described in *Listing User Profile Definitions*, elsewhere in this section.

2   Enter the command EU on the selection line preceding the profile name you want to edit and press Enter.

The profile is displayed and may be edited. Read *User Profile Access Rules* (elsewhere in this section) for additional information.

3   When the profile provides appropriate access privileges for the user, press PF5 to save the profile.

If you are editing your own user profile, the changes you make take effect as soon as you save your profile. If you are editing a profile other than your own, the changes do not take effect until the next time the user changes screens.

User Profile Access Rules

The Edit Profile screen contains several pages of user access rules. Use the PF11 (forward) and PF10 (backward) keys to scroll between the pages.

```
 14:51:07                  A D A B A S  -  R E V I E W              2018-01-29
                                   Edit Profile


       General Settings                     Specific DBIDs to Monitor
 +-----------------------------------------------------------------------------+
 | User ID / Group ID ..... _____        _____  _____  _____  _____  _____   |
 | Group Profile? ................ N        _____  _____  _____  _____  _____   |
 | Description: _____        _____  _____  _____  _____  _____   |
 | Access User Profiles? ......... Y        _____  _____  _____  _____  _____   |
 | Access Review? ................ Y        _____  _____  _____  _____  _____   |
 | Monitor All Targets? .......... Y        _____  _____  _____  _____  _____   |
 | Restrict list to allowed DBIDs? N        _____  _____  _____  _____  _____   |
 | Default Nucleus Target ....  LFILE       _____  _____  _____  _____  _____   |
 | Default Repository DBID ...  LFILE       _____  _____  _____  _____  _____   |
 | Default Repository File ...  LFILE       _____  _____  _____  _____  _____   |
 |                                          _____  _____  _____  _____  _____   |
 | Confirm Purge/Save Requests? .. Y        _____  _____  _____  _____  _____   |
 |     Press PF11 to scroll right           _____  _____  _____  _____  _____   |
 +---------------------- (Administrator Privileges) ---------------------------+


 REV00101 - NEW USER PROFILE
 Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help        Exit        Save  Reset                     ===>  Menu    ↵
```

```
 14:51:57                  A D A B A S  -  R E V I E W              2018-01-29
                                   Edit Profile:


                                 Profile Settings
 +-----------------------------------------------------------------------------+
 |  List Report Definitions? ....... Y   Change Report Status? .......... Y   |
 |  Edit Reports? (REGEN) .......... Y   Purge Started Reports? ......... Y   |
 |    Edit Database Reports? ....... Y                                        |
 |    Edit Client Reports? ......... Y   RECAT Display Programs        N   |
 |    Edit Bufferpool Reports? ..... Y   CHECK Display Programs        N   |
 |    Edit Pulse Reports?  ......... Y                                        |
 |    Edit Cluster Reports? ........ Y                                        |
 |  Purge Report Definitions? ...... Y                                        |
 |  Start Reports? ................. Y                                        |
 |  Schedule Reports? .............. N   List History Reports? .......... Y   |
 |  List Started Reports? .......... Y   View History Reports? .......... Y   |
 |  List Scheduled Reports? ........ N   Compress History Reports? ...... Y   |
 |  View Started Reports? .......... Y   Purge History Reports? ......... Y   |
 +-----------------------------------------------------------------------------+



 Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help        Exit        Save  Reset                <=== ===>  Menu    ↵
```

```
14:52:16                    A D A B A S  -  R E V I E W                   2018-01-29
                               Edit Profile:

                               Profile Settings
+-----------------------------------------------------------------------------+
|  List Targets? ............ Y                                                |
|  Edit Targets? ............ Y                                                |
|  Purge Targets? ........... Y                                                |
|  List Available Hubs? ..... Y                                                |
|  Access AA Menu? .......... Y                                                |
|  Transfer to AOS? ......... Y                                                |
|  Change Review Nucleus? ... Y                                                |
|  Change Repository? ....... Y                                                |
|  Change LFILE Info? ....... Y                                                |
|                                                                             |
|                                                                             |
|                                                                             |
|                                                                             |
|                                                                             |
+-----------------------------------------------------------------------------+



Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Save  Reset                   <===        Menu   ↵
```

》 **To modify access rules:**

1   Type over the access rule setting displayed on the screen.

2   When you have made all of the changes to a particular group of access rules, either:

   ■ Press PF3 to exit without saving the changes.

   ■ Press PF5 or enter the SAVE command to save the changes.

The following table describes all of the access rules available in alphabetic order, whether they are required, their valid values, and the Adabas Review screen page (1, 2, or 3) on which the rule can be found.

■ To create a group profile, be sure to set the **Group Profile?** setting to "Y".

■ To create an administrator profile, make sure that all the access rules for the user are set to "Y" (except optionally the **Group Profile?** and **Confirm Purge/Save Requests?** access rules, which can be set to "N" even for administrator profiles.

Access Rule Name	Page	Required?	Valid Values (Defaults are underlined)	Description
Access AA Menu?	2	No	Y͟	N	Indicates whether users assigned the profile are allowed access to the Available SVCs screen.
Access Review?	1	No	Y͟	N	Indicates whether users assigned the profile are allowed to access Adabas Review.
Access User Profiles?	1	No	Y͟	N	Indicates whether users assigned the profile are allowed to access the user profile system. Before setting this access rule to "N" in the default profile, you must first create a user profile that allows you to access the user profile system. Otherwise, you will not be able to maintain user profiles.
Change LFILE Info?	2	No	Y͟	N	Indicates whether users assigned the profile are allowed to run the LFILE command.
Change Report Status?	2	No	Y͟	N	Indicates whether users assigned the profile are allowed to suspend or reactivate reports from the Started Reports (LS) or Scheduled Reports (LC) screen.
Change Repository?	2	No	Y͟	N	Indicates whether users assigned the profile are allowed to change the repository DBID or file using the SETA command.
Change Review Nucleus?	2	No	Y͟	N	Indicates whether users assigned the profile are allowed to change the hub ID or DBID for reporting using the SETA, DBID, or HUB commands.
CHECK Display Programs?	2	No	Y͟	N	Indicates whether users assigned the profile are allowed to issue the command CHECK. Report definitions in the REVIEW-DB and display programs in library SYSREVDB will be checked for consistency. The result will be saved in Natural text member RE-KLIST in library SYSREVDB.
Compress History Reports?	2	No	Y͟	N	Indicates whether users assigned the profile are allowed to request history report compression and to run the RESET HISTORY command.
Confirm Purge/Save Requests?	1	No	Y͟	N	Indicates whether users assigned the profile are prompted to confirm a purge or save request before it is executed.
Default Nucleus Target	1	No	*nnnnn* | 0 |AUTO|LFILE͟	In hub mode, specify either the number of the hub ID that should be used or "AUTO".
				In local mode, specify the number of the database ID (DBID) running in local mode. "0", "LFILE" or "AUTO" can also be specified.
				■ If "0" is specified, the value is determined as if "LFILE" were specified.

Access Rule Name	Page	Required?	Valid Values (Defaults are underlined)	Description
				■ If "LFILE" is specified, the value is determined from the LFILE setting of the current Natural session. This is primarily useful in local mode. In the LFILE setting a valid database ID (DBID) needs to be specified.
				■ If "AUTO" is specified, the value is determined from the SVC (or IDTNAME) of the current Natural session. If a single hub is running under the current SVC (or IDTNAME), that hub ID is used. If more than one hub ID is active, the first hub ID found under the SVC is used. If no hub is running, i.e. in local mode, the value is determined as if "LFILE" were specified. **Note:** Support for the "AUTO" value executes module ADATMZ in the Natural environment, which dynamically loads CCSTCK and ADALNKR. If CCSTCK or ADALNKR cannot be loaded, subsequent calls to ADATMZ might lead to problems. Be sure that the modules ADATMZ, ADALNKR, and CCSTCK, which are available in the Adabas or WAL load libraries, are also available for the TP monitor.
Default Repository DBID	1	No	*nnnnn* | 0 | <u>LFILE</u>	The database ID where the Adabas Review repository (history) file resides. "LFILE" or "0" can also be specified. ■ If "0" is specified, the value is determined as if "LFILE" were specified. ■ If "LFILE" is specified, the value is determined from the LFILE setting of the current Natural session.
Default Repository File	1	No	*nnnnn* | 0 | <u>LFILE</u>	The file number of the Adabas Review repository (history) file. "LFILE" or "0" can also be specified. ■ If "0" is specified, the value is determined as if "LFILE" were specified. ■ If "LFILE" is specified, the value is determined from the LFILE setting of the current Natural session.
Description	1	Yes	Twenty alphanumeric characters	A description of the profile.

Access Rule Name	Page	Required?	Valid Values (Defaults are underlined)	Description
Edit Bufferpool Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to edit buffer pool reports.
Edit Client Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to edit client reports.
Edit Cluster Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to edit cluster reports.
Edit Database Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to edit database reports.
Edit Pulse Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to edit pulse reports.
Edit Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to use the Edit Report (ER) function.
Edit Targets?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to create or edit target definitions.
Group Profile?	1	No	Y | <u>N</u>	Indicates whether the profile is a group profile.
List Available Hubs?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to list the available hubs.
List History Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to list history reports.
List Report Definitions?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to list report definitions.
List Scheduled Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to list scheduled reports.
List Started Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to list started reports.
List Targets?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to list target definitions.
Monitor All Targets?	1	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to monitor all targets. If this is set to "N" (no), you are prompted to list the specific DBIDs that can be monitored by the user profile in the **Specific DBIDs to Monitor** list. If this access rule is to "Y", all database targets can be monitored.
Purge History Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to delete historical data from the Adabas Review repository.
Purge Report Definitions?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to delete report definitions.

Access Rule Name	Page	Required?	Valid Values (Defaults are underlined)	Description
Purge Started Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to delete data collected by started or scheduled reports.
Purge Targets?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to delete target definitions.
RECAT Display Programs?	2	No	<u>Y</u> | N	Recatalogs display programs, if an object does not longer run because of a new GDA (new SYSREVDB version).
Restrict lists to allowed DBIDs?	3	No	Y | <u>N</u>	Indicates whether lists produced by users assigned the profile should be limited to the DBIDs allowed by the profile.
Schedule Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to initiate data accumulation by scheduling a report.
Specific DBIDs to Monitor	1	No	Valid database IDs	This is really a list of fields in which you can specify database IDs that can be monitored by users with the user profile when the **Monitor All Targets?** access rule is set to "N".
Start Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to initiate data accumulation by starting a report.
Transfer to AOS?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to use Adabas Online System.
User ID / Group ID	1	Yes	Up to eight alphanumeric characters long beginning with either a letter or a national ($, @, or #) character.	The user ID or group ID name of the profile.
View History Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to view the results of history reports online.
View Started Reports?	2	No	<u>Y</u> | N	Indicates whether users assigned the profile are allowed to view the results of started or scheduled reports online.

Copying a User Profile

⟫ **To copy a user profile:**

1   Enter the command `EU` on the selection line preceding the profile name you want to copy.

2   Type the new user ID or group ID in the **User ID / Group ID** field.

3   Press `PF5` to save the new user profile.

Purging a User Profile

⟫ **To delete a user profile:**

1   List the defined user profiles on the User Profiles screen, as described in *Listing User Profile Definitions*, elsewhere in this section.

2   Enter the command `PU` on the selection line preceding the profile name you want to delete and press `Enter`.

    Depending on the setting in your profile, you may or may not be prompted to confirm the purge request as shown in the following screen:

```
 2:26:58                    A D A B A S  -  R E V I E W                2016-04-24
                                  User Profiles

   Sel  Userid   Name                        Sel  Userid    Name
 +-----------------------------------------------------------------------------+
 ! __   DEFAULT   DEFAULT PROFILE                                              !
 ! __   USER1     REVIEW ADMIN                                                 !
 ! __   USER2     SMITH                                                        !
 ! pu   USER3     JONES                                                        !
 ! __   USER4     ADAMS        +-----------------------------------+          !
 ! __   USER5     GREENE       !                                   !          !
 !                             ! Please confirm PURGE request for: !          !
 !                             !                                   !          !
 !                             !             USER3                 !          !
 !                             !                                   !          !
 !                             !           (Y or N) Y              !          !
 !                             !                                   !          !
 !                             +-----------------------------------+          !
 !                                                                            !
 +-----------------------------------------------------------------------------+


 Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help        Exit                              +                   Menu  ↵
    ↵
```

3 Displaying SVC Lists and Target Objects

The databases monitored by Adabas Review are considered to be target objects. The monitored databases and the hub are running on an Adabas SVC or router.

A target object is defined to Adabas Review in a *target definition* using the ET command. A target definition provides Adabas Review with the essential characteristics of the object to be monitored.

Adabas Review uses the target definition of Adabas targets to generate INPUT cards for the Adabas Review processor. For the Adabas Review hub, you must specify the target ID of the hub.

- If a target definition cannot be found, the INPUT cards are generated using the definition of the default target (that is, target ID 00000).

- If the default target cannot be found, Adabas Review generates the INPUT cards using internal defaults.

Adabas Review provides three commands for SVCs and target objects:

Code	Function	Action
AA	Adabas Availability	Lists target objects for a particular SVC as well as session statistics.
AH	Available Hubs	Lists available Adabas Review hubs
ET	Edit Target Definitions	Used to create target definitions.
LT	List Target Definitions	Lists existing target definitions.

Reviewing Adabas Nucleus Targets and Session Statistics

The Adabas Availability (AA) subsystem displays available targets associated with an Adabas supervisor call (SVC). Adabas Review maintains a list of possible SVC numbers as part of its target definition subsystem.

This section covers the following topics:

- Accessing the SVC List
- Displaying Targets Associated with an SVC or Router

■ Displaying Adabas Nucleus Session Statistics

Accessing the SVC List

≫ **To access a list of all the active Adabas SVCs known to Adabas Review:**

■ Enter the AA code on any command line.

```
13:17:52                 A D A B A S  -  R E V I E W              2020-02-10
REVIEW-DB (10,252)              Available SVCs             Hub Target: 296
                      Mark One SVC to be queried with 'X'

    SVC Targs        SVC Targs        SVC Targs        SVC Targs        SVC Targs
+---------------------------------------------------------------------------+
! _ 201  1        _ 239  0                                                  !
! _ 203  1        _ 240  0                                                  !
! _ 205  0        _ 241  0                                                  !
! _ 214  0        _ 242  0                                                  !
! _ 220  0        _ 243  1                                                  !
! _ 227  6        _ 244  0                                                  !
! _ 229  0        _ 246  0                                                  !
! _ 232  0        _ 247  0                                                  !
! _ 233  0        _ 248  1                                                  !
! _ 235  3        _ 249  7                                                  !
! _ 236  12       _ 252  1                                                  !
! _ 237  6        _ 254  0                                                  !
+---------------------------------------------------------------------------+



Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                                                  Menu
```

The **Active Adabas SVCs** screen appears, where, for z/OS, the SVC is the supervisor call (SVC) number used for communications with the target object. The number of target objects assigned to that SVC is listed in the associated **Num Targs** field.

> **Note:** In CICS environments, only the one SVC that is in the link routine appears on this screen.

Displaying Targets Associated with an SVC or Router

≫ **To display a list of all targets known to a particular SVC number:**

■ Mark an SVC on the **Active Adabas SVCs** screen with an "X", and press ENTER.

The **Available Targets** screen appears, listing targets using the selected SVC for communication. Scroll keys are provided. If more than one screen of objects exists, PF8 (+) scrolls the list forward and PF7 (-) scrolls the list backward.

> **Note:** The list of targets on this screen is the result of a direct query to the SVC and includes inactive targets and non-Adabas databases using that SVC. The list is sorted by the DBID.

```
13:19:57                 A D A B A S  -  R E V I E W                 2020-02-10
REVIEW-DB (10,252)             Available Targets            Hub Target: 296
                                  SVC 249

     DBID     NUCID    Prod   Class   Job Name   Job ID      Date        Time
+------------------------------------------------------------------------------+
| _   242     N/A      COR     I      DAEFCOR    STC22397  2017-09-26  05:44:24 |
| _   295     N/A      REV     I      QEHUB295   STC37404  2017-09-27  08:02:34 |
| _   296     N/A      REV     I      QEHUB296   STC24552  2017-09-26  07:30:26 |
| _   297     N/A      REV     I      QEHUB297   STC37406  2017-09-27  08:02:46 |
| _   519     N/A      ADA     I      ETSBADA    STC22851  2017-09-26  05:44:25 |
| _   614     N/A      EXX     I      ETS4SB     STC39654  2017-09-27  15:20:49 |
| _   615     N/A      EXX     I      ETS4XB     STC45979  2017-09-28  10:05:59 |
| _   623     N/A      EXX     I      ETSDDB     STC22811  2017-09-26  05:43:58 |
| _   624     N/A      EXX     I      ETS1SB     STC37577  2017-10-04  04:09:18 |
| _   625     N/A      EXX     I      ETS1XB     STC37579  2017-10-04  04:09:21 |
| _   626     N/A      EXX     I      ETS1QB     STC37576  2017-10-04  04:09:16 |
| _  1001     N/A      COM            TESTNAT    STC44921  2017-10-03  19:01:38 |
+------------------------------------------------------------------------------+



Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                          -     +                   Menu
```

The following table describes each field on this screen:

Screen Field	Description
Class	The class of the target object. "I" represents an isolated target and "IC" represents an isolated cluster target. For all other targets, the value is blank.
Date	The date on which the target was started.
DBID	The ID of the target object.
Job ID	The ID of the job used to start the target.

Screen Field	Description
Job Name	The name of the startup job for the target.
NUCID	The nucleus ID associated with the target.
Prod	The three-character product code of the target assigned to the SVC.
Time	The time at which the target was started.

Displaying Adabas Nucleus Session Statistics

≫ **To display statistics regarding an Adabas nucleus session:**

1   Mark an SVC on the **Available SVCs** screen with an "X", and press ENTER.

The **Available Targets** screen appears, listing targets using the SVC for communication. Scroll keys are provided. If more than one screen of objects exists, PF8 (+) scrolls the list forward and PF7 (-) scrolls the list backward.

> **Note:** The list of targets on this screen is the result of a direct query to the SVC and includes inactive targets and non-Adabas databases using that SVC.

2   Mark an Adabas database target on the **Available Targets** screen with an "X", and press ENTER.

If a non-Adabas target is selected, an error message appears.

If an Adabas target is selected, the **ADABAS Availability** screen appears displaying statistics about the Adabas nucleus session.

```
13:20:46                    A D A B A S  -  R E V I E W                 2020-02-10
REVIEW-DB (10,252)              ADABAS Availability              Hub Target: 296

   Pool / Queue         Length     MaxUsed  MaxPct        Various Statistics
+---------------------------------------------+  +--------------------------+
! NAB (Atch Bfr)        65536       31232    47.6 !  ! Dbname        SSW-NATDB !
! NC  (Cmd Queue)       38400         192     0.5 !  ! Dbid             15640 !
! LFP (Fmat Pool)       12000       11680    97.3 !  ! SVC                227 !
! NH  (HoldQueue)     1400056        2380     0.1 !  ! Commands        147019 !
! LI  (ISN Table)       10000           0     0.0 !  ! IOs             105375 !
! LQ  (Seq Cmds)      5242880         448     0.0 !  ! Threads             5 !
! NU  (UserQueue)       35112        5544    15.7 !  ! Bffr Eff          52.5 !
! LWP (WorkPool)      1048576       67912     6.4 !  ! Bffr Flush        1291 !
+---------------------------------------------+  ! Fmat Ovwrt          33 !
   Component     Reads       Writes               ! Fmat Trans          73 !
+-----------------------------+                   ! Thread Sw       293244 !
! Asso          1120         7894 !               ! Throwbacks           0 !
! Data         17683        45039 !              +--------------------------+
! Work             3        33636 !
+-----------------------------+

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                                                    Menu
```

The following table describes the statistics shown on this screen:

Screen Field	Displays
Pool/Queue	The names of the Adabas pools and queues.
Length	The length of the associated Adabas pool or queue.
MaxUsed	The maximum amount used of the associated Adabas pool or queue.
MaxPct	The percentage used of the associated Adabas pool or queue.
Dbname	The name of the database.
Dbid	The number of the database.
SVC	The SVC used to communicate with the database.
Commands	The number of commands processed against the database.
IOs	The number of I/O operations processed against the database.
Threads	The number of threads in use by the database.
Bffr Eff	The buffer efficiency of the database.
Bffr Flushes	The number of buffer flushes performed by the database.
Fmat Overwrites	The number of format overwrites performed by the database.
Fmat Trans	The number of format translations performed by the database.
Thread Sw	The number of thread switches performed by the database.
Throwbacks	The number of throwbacks performed by the database.

Screen Field	Displays
Component	The database component: Asso (Associator), Data (Data Storage), Work (Work area)
Reads	The number of reads performed by the associated database component.
Writes	The number of writes performed by the associated database component.

Listing and Selecting Adabas Review Hubs

The Adabas Availability (AH) subsystem displays available Adabas Review hubs associated with an Adabas supervisor call (SVC).

This function only displays the available Adabas Review hubs which run on the default SVC that is specified in the ADALNK routine, and those hubs that are active on the same LPAR as the client issuing the AH. Hubs connected through Entire-Network on other LPARs are not displayed.

≫ **To access a list of all the Adabas Review hubs:**

1 Enter the `AH` command on any command line.

A pop-up screen listing the available hubs on the selected SVC appears.

```
             Available Review Hubs on SVC 237

             Please choose a Review Hub
        -------------------------------------------
        _ 00041        _____        _____        _____
        _ 00558        _____        _____        _____
          _____        _____        _____        _____
          _____        _____        _____        _____
          _____        _____        _____        _____
          _____        _____        _____        _____
          _____        _____        _____        _____
          _____        _____        _____        _____



        Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7--
                        Exit
```

2 To select a hub, type any character next to the hub of your choice on the pop-up window and press ENTER. Then press PF3 to exit the pop-up window.

Creating a Target Definition

Target definitions are usually edited by the Adabas Review administrator because changes to database targets affect all users of Adabas Review.

Target definitions can be created, edited, listed, and purged. If target information is changed it will not immediately apply to the Adabas Review system. After the new parameter setting is saved into the Adabas Review repository file, it is also written to data sets identified by the RVUAUT1 job control statement. When Adabas Review is next restarted, the new session parameters will apply.

If you are running in hub mode, the target ID of the Adabas Review hub must be specified and the parameter setting will be written to the data sets specified by the Adabas Review hub.

> **Note:** When using the online interface to maintain target definitions, only one target entry can be specified for each DBID, even if there are multiple SVCs with the same DBID.

≫ **To access the Edit Target screen:**

■ Enter the ET command on the command line and press ENTER.

The Edit Target screen appears as shown below:

```
13:22:10               A D A B A S  -  R E V I E W                   2020-02-10
REVIEW-DB (10,252)                  Edit Target              Hub Target: 296


        Database Parameters                      Numeric Delimiters
    +---------------------------+       +---------------------------------+
    |    Target DBID ....   299  |       |    Buffer Size .........    20   |
    |    Target SVC  ...... 249  |       |     (Specified in Megabytes)     |
    |    Target Version ... 852  |       |                                 |
    +---------------------------+       +---------------------------------+
                           Review Options
    +-------------------------------------------------------------------+
    |    Target Name ..................... QEHUB299_____             |
    |    Review Commands ................. Y   (Y or N)                 |
    |    zIIP on Target .................. N   (Y or N)                 |
    |    64 Bit Buffer Pool .............. N   (Y or N)                 |
    |    Mode ........................... V51 (V52 or V51)              |
    +-------------------------------------------------------------------+


Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Save                                      Menu
```

The Edit Target screen displays three categories of input fields:

- `Database Parameters` to describe characteristics of the database;

- `Numeric Delimiters` to control record and buffer segment sizes; and

- `Logging Options`.

The Adabas Review intermediate buffer is used as a staging area to pass the command log records between the Adabas Review subtask and the attached Adabas Review processor in local mode, or between the Adabas Review client and server in hub mode. The parameter BUFFMB in the Adabas Review INPUT statement controls the size allocation. The values for these parameters are obtained from the database target definition.

The following table provides more detailed information about the input fields on the Edit Target screen. Default values are underlined.

Database Parameters

Field	Value	Description
Target DBID (required)	*nnnnn*	The database ID of the target object. There is no default value. In hub mode it is the Review Hub ID. In local mode it is the local Review DBID.
Target SVC (required)	nnn | <u>000</u>	The number of the SVC used to communicate with the target.
Target Version	nnn | <u>000</u>	The version, release, and system maintenance level of the target. For example, for Adabas Version 8.3 SP4, this field would contain the value 834.

Numeric Delimiters

Field	Value	Description
Buffer Size	*nnnnn* | 10	Defines the size of the Adabas Review buffer pool in MB. The minimum value is 1.

Logging Options

Field	Value	Description
Target Name	name	The name you use to identify the target database.
Review Commands	<u>Y</u> | N	Indicates whether commands issued by Adabas Review should be included in the command processing for all reports. **Note:** In hub mode, this then applies for all databases running with this hub. REVIEW-COMMANDS=NO indicates that special Adabas commands for Adabas Review (for example V4 commands) are not used for accounting

Field	Value	Description
		and monitoring. To suppress RC commands issued from the SYSREVDB application as well, set the Natural profile ADAPRM parameter ON (ADAPRM=ON). REVIEW-COMMANDS=YES indicates that these commands are used for accounting and monitoring. **Note:** Some fields might not be available for the commands supported by Adabas Review online system (V4 commands), especially when running in a hub environment. These fields include TP monitor fields, Natural fields, duration fields and buffer fields.
zIIP on Target	Y | <u>N</u>	"Y", the INPUT cards for the Adabas Review processor will be generated with the card ZIIP=YES. "N", no ZIIP input card will be generated. This is the same as ZIIP=NO.
64 Bit Buffer Pool	Y | <u>N</u>	"Y", the Adabas Review buffer pool allows 64-bit addressable storage. The maximum size of the buffer pool may be larger. "N", the Adabas Review buffer pool resides in 31-bit addressable storage.
Mode	<u>V52</u> | V51	"V52", the INPUT cards for the Adabas Review processor will be generated with the card MODE=V52. "V51", the INPUT cards for the Adabas Review processor will be generated with the card MODE=V51.

Listing Target Definitions

The `List Target Definitions` (`LT`) command displays the existing target definitions that were created using the `Edit Target` (`ET`) command.

≫ **To display a list of target definitions**

■ Enter the code `LT` on the command line and press ENTER.

The Target Definitions screen appears, similar to the one shown below:

```
21:10:29                   A D A B A S  -  R E V I E W                2020-03-20
REVIEW-DB (10,252)            Target Definitions             Hub Target: 296


                                          Review      64-Bit
   Sel  DBID    Target Name      Ver   SVC  Commands   zIIP  Buffer   Mode
+----------------------------------------------------------------------------+
|  __   00000   DEFAULT TARGET   841   249     Y        N      N      V52     |
|  __   00299   QEHUB299         000   249     Y        N      N      V51     |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
|                                                                            |
+----------------------------------------------------------------------------+


Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                        -     +                     Menu
```

The fields on the Target Definitions screen describe the targets as they are defined to the system. The following table describes the fields:

Field	Description
DBID	The database ID of the target object.
Target Name	The name assigned to the target by the user.
Ver	The version, revision, and system maintenance level of the target.
SVC	The number of the SVC used to communicate with the target.
Review Commands	Local mode only. Indicates whether the Adabas Review command processor includes commands issued by the Adabas Review online system in its reports. This is used if the Adabas Review processor is running as an Adabas subtask; that is, not in batch.
zIIP	Indicates whether Adabas Review target is defined with (ZIIP=YES) or without zIIP parameter (ZIIP=NO).
64-Bit Buffer	Indicates whether Adabas Review makes use of 64-bit addressable storage or not.
Mode	Indicates whether the new, version 5.2 handling of command log extensions of a record is used (default), or the old version 5.1 (or below) handling.

You may edit or purge target definitions from the Target Definitions screen.

≫ **To display the commands available for use from this screen**

■　　Enter a ? on the selection line preceding a target definition and press ENTER.

Editing an Existing Target Definition

≫ **To edit an existing target definition:**

1   Enter the `ET` command on the selection line preceding the target definition and press ENTER.

     The Edit Target screen for that particular target is displayed.

2   Modify the definition by typing over the existing information.

3   Either press PF5 or enter `SAVE` on the command line and press ENTER.

> **Note:** After the definition is saved in the Adabas Review repository file, it is also written to the data sets identified by the RVUAUT1 job control statement. However, the changed target information is not immediately available to the Adabas Review system. When Adabas Review is next restarted, any changed definitions are applied at that time to the system.

Deleting a Target Definition

Target definitions may be deleted using the `PURGE` command.

≫ **To delete a target definition**

1   Enter the `PT` command on the selection line preceding the target definition and press ENTER.

2   Depending on your user profile, you may or may not be prompted to confirm the purge request.

> **Note:** After the definition is purged in the Adabas Review repository file, it is also purged from the data sets identified by the RVUAUT1 job control statement. However, the purged target information will continue to appear to be available to the Adabas Review system until Adabas Review is next restarted. When Adabas Review is restarted, any changes (or deletions) to the target definitions are applied to the system.

4 Defining Adabas Review User Fields

The Adabas Review administrator can create up to 35 custom reporting fields. Portions of the command log, like user data from the Adabas link routines provided via *REVUEX1* can be remapped using parameters to specify offsets and data types for these new fields.

⚠️ **Caution:** Do *not* modify the Natural DDM or Adabas FDT to define Adabas Review user fields. If you do, errors will result. User fields can be used in a History report. If this is the case, the sequence of the user field definitions should not be changed any longer. Any new user field definition must be added at the end. The same applies if you use your own help texts for user fields. In addition, the OUTTYPE and DISPLEN definition of the specific user field used in the History report cannot be changed or the new definition might corrupt the existing history data.

User field definitions are read from the RVUFLD data set when Adabas Review starts up. It is not possible to change this definition during an active Adabas Review server. Sample parameters are provided in member RVUFLD in the Adabas Review source library. The following syntax rules must be used when setting the parameters that define user fields:

```
NAME = name
        CALC = { YES | NO }
        DISPLEN = output-data-length
        HEADER = output-field-name
        INTYPE= { C | B }
        LEN = length

       ⎧ FIELD = ffffffff       ⎫
       ⎪ EXTOFF = ext-area-offset⎪
       ⎨ OFFSET = offset-into-clog⎬
       ⎩ VALUE= (logical-condition;value),... ⎭

        OUTTYPE= { C | N | H }
```

- Each field is defined by a NAME parameter followed by field description statements.

- The NAME parameter specifies the name of the field, which can be up to eight alphanumeric characters long and must start with an alphabetic character. Special characters cannot be used in user field names and user field names may not be in the format "USRFLD*nn*" or "USERFLD*n*" or errors will result.

- A maximum of 35 user fields may be defined.

- There is no data translation done from INTYPE to OUTTYPE. The user is responsible to specify a meaningful combination there. For example, in case of INTYPE=B and OUTTYPE=N the value x´F1´ will be displayed as ´241´ instead of the probably expected ´1´.

- If the NAME parameter with an offset, for example OFFSET or EXTOFF is wrongly specified and does point outside of the redefined field or outside the Review buffer, then error REV20190 is issued.

The following keywords are used in this syntax:

Parameter	Values	Description
NAME	8-byte alphanumeric user field name, starting with an alphabetic character, using no special characters, and *not* in the deprecated formats "USRFLD*nn*" or "USERFLD*n*"	Field name of a user field that can be used in a report definition. All user field names must be one to eight alphanumeric characters long, must start with an alphabetic character, can include no special characters, and *cannot* be in the deprecated user field name formats "USRFLD*nn*" or "USERFLD*n*".
CALC	YES | NO	Option defining whether the field can be used for the numeric functions SUM, AVG, PCT, RATE, COST, or ROUND. **Note:** This option is only useful for fields of input format binary (INTYPE=B) and output format numeric (OUTTYPE=N). For any other format types, the use of numeric functions is rejected.
DISPLEN	numeric	Length of the data when printed or displayed.
EXTOFF	numeric in decimal, not hex	The offset into the extended area used for derived fields. This parameter is mutually exclusive with the FIELD, OFFSET and VALUE parameters.
FIELD	8-byte alphanumeric Adabas Review field name (depicted by *ffffffff* in the syntax) or "RDBLKUSR". The Adabas Review field name may be followed by a plus sign ("+") and an offset specifying the first byte of the user-defined field.	The name of an Adabas Review field. Many fields have alternate names, so be sure to specify only the field names used for batch reports. To determine which field names are used for batch reports, see the individual field descriptions provided in the *Field Reference* in the *Adabas Review Reference Guide*. If an invalid alternate name is used, error REV20190 is issued. The RDBLKUSR user field name is reserved for use with the REVUEX1 user exit. This parameter is mutually exclusive with the OFFSET, EXTOFF and VALUE parameters.
HEADER	alphanumeric, 10-byte maximum	Title of the field when printed or displayed.
INTYPE	C (character) B (binary)	Format of the data in the Adabas Review internal command log record, LORECR.
LEN	numeric	Length of the field in the Adabas Review internal command log record, LORECR. This might be

Parameter	Values	Description
		shorter than the specified field, to use only portions of the field.
OFFSET	numeric in decimal, not hex	Offset into the Adabas Review internal command log record, LORECR. This parameter is mutually exclusive with the FIELD, EXTOFF and VALUE parameters.
OUTTYPE	C (character) N (numeric) H (hexadecimal)	Format of the data when printed or displayed.
VALUE	(*logical-condition*;*value*),...	This parameter specifies a logical condition and value, which determine the content of the user-defined field. Specify a condition and value separated by a semicolon ";". The condition and value have to be enclosed by parentheses "(…)". Up to 16 pairs of logical conditions and values can be specified per VALUE statement with each pair separated by a comma "," . At run time for each command log record the user-defined field is first reset and the pairs of logical conditions and values are evaluated in the sequence they are specified until a logical condition becomes true. If found true, the corresponding value is placed into the user-defined field and the evaluation of the user-defined field is terminated. If none of the logical conditions becomes true, the user-defined field remains reset. This parameter is mutually exclusive with the FIELD, OFFSET and EXTOFF parameters.
logical-condition	*field-name comparator compare-value* [{AND|OR} *field-name comparator value* ...]	The logical condition describes a Boolean expression which determines the value of the user-defined field, if the Boolean expression becomes true. Only linear AND or OR Boolean operators are allowed and nesting by parentheses is not allowed.
field-name		This parameter specifies the Adabas Review field name used in the logical expression. *field-name* can also be a user-defined field, as long it has been defined prior to the actual user-defined field.
comparator	{=|≠|<|>|EQ|NE|LT|GT}	This parameter defines the compare operation between the field name and the value.
compare-value	[(]constant[-constant],…[)],…	This parameter defines the compare value to be compared with the field name. Decimal numbers and alphanumeric values can be specified. Alphanumeric values can be enclosed in quotes

Parameter	Values	Description
		like 'char' or can be specified as hexadecimal value X'hexadecimal characters'. It is possible to specify a list or a range of values like in the report rules specification.
value	Constant numeric or alphanumeric value	This parameter defines the value to be assigned to the user-defined evaluation field, if the associated logical condition is evaluated as true. Decimal numbers and alphanumeric values can be specified. Alphanumeric values can be enclosed in quotes like 'char' or can be specified as hexadecimal value X'hexadecimal characters'. It is possible to specify a list or a range of values like in the report rules specification.

The FIELD, EXTOFF, OFFSET and VALUE parameters are mutually exclusive in a user field definition; only one of them may be specified.

Examples

Here are some examples of user field definitions:

```
NAME=MYFLD1
     CALC=NO
     LEN=2
     INTYPE=C
     OUTTYPE=C
     OFFSET=182
     DISPLEN=2
     HEADER=MY1

NAME=JOBCODE
     CALC=NO
     LEN=3
     INTYPE=C
     OUTTYPE=C
     FIELD=JOBNAME
     DISPLEN=3
     HEADER=JOBCODE

NAME=CICS
     CALC=YES
     LEN=4
     INTYPE=B
     OUTTYPE=N
     HEADER=CICS
     VALUE=(USERTYPE=CICS;1)
```

Help Text for User Fields

If you request the online help for a user field, a default generic text is displayed. You can provide your own text by doing the following:

1   Copy the template Natural text member T - LFUFNN in library `SYSREVDB` and rename it to T - LFUF*nn*, where *nn* is the user field number from the sequence in the RVUFLD data set. The name is also provided in the default generic text.

2   Edit the new text member.

The following rules apply to the help text:

- The line size is 72 characters.
- The first column in a line indicates the line type:

  H - header line (first line only, automatically centered)

  T - text line (you can have as many as you need)

- The second column is blank.
- Column 3 can be used for special formatting characters.
- The text starts in column 4.

You can use special formatting characters to customize the formatting of your text. The characters you can use depend on your code page. The correct and valid characters are shown in the template text member. When the help text is displayed, the special formatting characters are replaced by blanks.

Examples

The following is an example of a help text for the third user field named "CICS". The characters "<" and "@" are used to start and end the formatted text. Because the characters are code page specific, the text can look different in different environments.

The Natural text member T-LFUFNN is saved as T-LFUF03 in library `SYSREVDB`.

```
H  CICS
T  The<CICS@user field provides the number of<Adabas@calls issued
T  from<CICS@sessions.
```

5 Managing Client Reporting

The Adabas Review client engine must be on if you want to run any client reports. However, you can define client reports when the client engine is off.

Activating client reporting can be performed in two ways; standard activation or dynamic activation. The particular type of activation available is controlled by the LGBLSET parameter `RVCLNT`.

- `RVCLNT=YES` enables standard activation.
- `RVCLNT=COR` enables dynamic activation.

> **Note:** Dynamic activation using `RVCLNT=COR` is only available in conjunction with the Adabas System Coordinator and is only available for CICS and TSO/Batch in z/OS systems.

Both types of activation are described in the following sections:

For more information about client reporting and its requirements, read *About Adabas Review Client Reporting*, in *Adabas Review Concepts Manual*.

Managing Client Reporting Online (RVCLNT=YES)

Use the Client Management screen in SYSREVDB to turn the Adabas Review client engine on and off and to determine its current status.

≫ **To manage client reporting, complete the following steps:**

1   Access the Client Management screen by entering the CM command on any Adabas Review screen.

The Client Management screen appears, displaying the current state of the Adabas Review client engine. For example:

```
13:26:44                   A D A B A S  -  R E V I E W                2020-02-10
REVIEW-DB (10,252)               Client Management              Hub Target: 296



                    The Review Client engine is currently off
                    Press PF6 to turn the Review Client engine on

















Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit              On                                   Menu
```

2   If the client engine is off, you can turn it on by pressing the PF6 key. If the client engine is on,
     you can turn it off by pressing the PF6 key.

     ▢   **Note:** To verify if client reporting is turned on correctly please review any LNKRVX*
         messages appearing on the console log.

Managing Client Reporting in Batch (RVCLNT=YES)

In batch environments you can manage client reporting using the ADARUN RVCLIENT parameter
or the REVCLRP batch module or the Natural program SETCM delivered in Natural SYSREVDB
library. For detailed information on each variant, please refer to one of the following:

  ▪ ADARUN RVCLIENT Parameter
  ▪ REVCLRP Batch Module

- Natural Program SETCM

ADARUN RVCLIENT Parameter

You can set the ADARUN RVCLIENT parameter to "ACTIVE" to activate client monitoring when you want to run client reports in batch environments; to deactivate client monitoring, either remove the parameter or set it to "INACTIVE". For more information, read *RVCLIENT Parameter: Adabas Review Client Reporting Activation*, in the *Adabas Review Reference Guide*.

REVCLRP Batch Module

You can call the batch module REVCLRP within your own application program to control Adabas Review client reporting. Using this module, you can turn client reporting on or off, or to determine its status. REVCLRP can be linked or loaded by your own user program; when linked or loaded, REVCLRP will communicate with the ADALNK link routine. Additional information about using the REVCLRP module is provided below:

- Calling REVCLRP
- Supplied Samples
- REVCLRP Output
- REVCLRP Errors

Calling REVCLRP

The REVCLRP module must be available if you intend to load it; otherwise it must be linked. Before you attempt to call REVCLRP from your own program, make sure you have:

- The address of the Adabas link routine;

- 1024 bytes of contiguous storage for parameters and a work area (doubleword aligned).

≫ **To call REVCLRP, complete the following steps:**

1   Set up the parameter work area. Provide the following information in the parameter work area using the following parameters:

Input Parameter	Provide this Information
RVCLADA	The address of the Adabas link routine.
RVCLFUNC	The function code for the REVCLRP processing. Valid values are ("ON", "OFF", or "STATUS"). Specify "ON" to have REVCLRP turn the client engine on; specify "OFF" to have REVCLRP turn the client engine off; and specify "STATUS" to have REVCLRP return the status of the client engine..
RVCLHUB	The Adabas Review hub ID you are querying.

Sample parameter work areas are mapped by the DSECT RVCLPARM for assembler programs and by copybook RVCLCOBC for Cobol programs. These are provided in the Adabas Review source (SRC or SX*nn*) library. Here is a sample of the assembler DSECT :

```
RVCLPARM DSECT
RVCL     DS    0XL1024
RVCLEYE  DS    CL4   EYE CATCHER VERSION OF THIS CONTROL BLOCK
RVCLVERS DS    CL4   RVCLPARM VERSION
RVCLADA  DS    AL4   Input  (Address of Adabas)
RVCLFUNC DS    CL8   Input  (STATUS, ON, OFF)
RVCLRSV1 DS    XL4   Internal use, do not modify
RVCLHUB  DS    XL2   Input  (Review hubid)
RVCLSTAT DS    CL8   Output (ON, OFF, NOTAVAIL)
RVCLMSG  DS    CL72  Output (Message returned from module)
RVCLRSP  DS    F     Output (Possible response codes to be determined)
RVCLRESN DS    F     Output (Possible reason codes to be determined'
RVCLRSV2 DS    XL20  RESERVED
```

2   Make the following modifications to your program.

- Register 13 must point to an 18 fullword save area.

- Register 1 must contain the address of the REVCLRP parameter work area.

- Register 14 must contain the address to return to.

- Register 15 must contain the address of REVCLRP.

Branch to the address in register 15 (usually BASR 14,15).

When you run your program, REVCLRP will be called.

Supplied Samples

Member RVCLCOB is provided in the Adabas Review source library. This copy book can be used in a COBOL program to invoke the REVCLRP assembler subprogram and manually activate or deactivate client reporting in a batch job step.

REVCLRP Output

After the REVCLRP call is completed, the following information is available for you to use in your application in the following output fields:

Output Field	Provides this Information
RVCLSTAT	The current status of client reporting ("ON", "OFF", or "NOTAVAIL"). "ON" indicates that the client engine is currently on; "OFF" indicates that the client engine is currently off; and "NOTAVAIL" indicates that client reporting is not activated for this hub.
RVCLMSG	A 72-byte message describing the details of the call transaction. If an error occurs in an REVCLRP call, a message is provided in this field.
RVCLRSP	The response code from REVCLRP processing. If an error occurs in an REVCLRP call, the Adabas response code is provided in this field; if all went well, this should be zero (hex).
RVCLRESN	The reason code from REVCLRP processing. If an error occurs in an REVCLRP call, the Adabas reason code is provided in this field; if RVCLRSP is not zero, this will be zero (hex).

REVCLRP Errors

Errors that occur during REVCLRP processing are identified in the RVCLMSG, RVCLRSP, and RVCLRESN fields.

In most cases, register 15 will be zero even if errors are indicated in RVCLRSP. There are two exceptions to this.

1. When ADALNK itself returns a nonzero response code in register 15. In this case, REVCLRP will return with 16 (X'10') in register 15 and the RVCLRSP and RVCLRESN fields will contain the Adabas response and reason code from ADALNK.

2. When REVCLRP processing encounters an unexpected error, REVCLRP will return "8" in register 15 and the RVCLRSP and RVCLRESN fields will contain appropriate response and reason code information.

When errors occur but register 15 is zero, RVCLMSG will provide a meaningful message and RVCLRSP and RVCLRESN fields will contain appropriate Adabas response and reason code information.

All error information will be useful to technical support.

Natural Program SETCM

You can call the program SETCM within your own Natural application program to control Adabas Review client reporting. Using this program, you can turn client reporting on or off. The program resides in the SYSREVDB library. The syntax of the SETCM statement is:

```
SETCM HUB=nnnnn,MODE= ON|OFF
```

The following is an example of the SETCM statement in a batch Natural job stream:

```
//CMSYNIN  DD *
LOGON SYSREVDB
SETCM HUB=558,MODE=ON
LOGON userlib
USERPROGRAM
FIN
//*
```

Managing Client Reporting with Adabas System Coordinator (RVCLNT=COR)

Using the LGBLSET parameter `RVCLNT=COR`, activation of client reporting is deferred to the setting of the Adabas System Coordinator client runtime control "Client Monitor".

Deferring the activation of client reporting to the control of the Adabas System Coordinator enables automatic activation to occur at job start-up and also provides the following additional benefits:

- For batch, activation can be controlled at the Stepname level.

- For CICS, activation can be controlled at the Transaction name or Login ID level.

- Natural and 3GL APIs are available to enable activation at the individual client level.

> **Note:** By using `RVCLNT=COR` you are deferring activation control to the Adabas System Coordinator client runtime controls. Any attempt to use the standard means of activation described in the sections *Managing Client Reporting Online (RVCLNT=YES)* and *Managing Client Reporting in Batch (RVCLNT=YES)* will not be successful. For more information on Adabas System Coordinator client runtime controls please refer to the *Adabas System Coordinator* documentation.

6 Performing Adabas Review Online Functions from Natural Programs

You can perform Adabas Review SYSREVDB (online) functions from your own Natural programs. Adabas Review provides an API, RVCALL, that allows you to start reports, list started reports, remove reports, close reports, suspend reports, and reactivate suspended reports. You can also obtain the first Adabas Review hub ID found for a specified SVC and the database ID associated with LFILE 241. Finally, you can use the RVCALL API to obtain access to the Adabas Review address space from your Natural program and then to restore your original working environment when you are done.

A series of user exits are also provided for your use with Adabas Review. For more information, read *User Exit Reference*, in the *Adabas Review Reference Guide*.

To support RVCALL the following members are provided in your SYSREVDB library.

■ Fifteen example programs named "RVCALL01" through "RVCALL15" are provided as examples of how to perform specific RVCALL functions.

> **Caution:** Sample user exits and programs are not supported under any maintenance contract agreement.

Example Program	RVCALL Function Demonstrated
RVCALL01	START function. Use this function to start a specific report, specifying many of its parameters.
RVCALL02	DELETE function. Use this function to purge a started report and report data from specified Adabas Review.
RVCALL03	CLOSE function. Use this function to close a report.
RVCALL04	SUSPEND function. Use this function to suspend a report.
RVCALL05	REACT function. Use this function to reactivate a suspended report.
RVCALL06	LIST function. Use this function to list started reports.
RVCALL07	GETHUBID function. Use this function to obtain the hub ID of a specific SVC.
RVCALL08	GETDBID function. Use this function to obtain the DBID associated with LFILE 241.
RVCALL09	EZSTART function. Use this function to start a report for one or all DBIDs. Very few parameters are required.
RVCALL10	VIEWON and VIEWOFF functions. Use these functions to obtain access to the Adabas Review address space from your Natural program (VIEWON must make a change to your environment to allow this access) and to restore your original working environment (VIEWOFF). Using the VIEWON function allows you to obtain information about the Adabas Review address space within your Natural program.
RVCALL11	LISTSCH function. Use this function to list scheduled reports, waiting to become active.
RVCALL12	EZSCHED function. Use this function to schedule a report for one or all DBIDs. Very few parameters are required.
RVCALL13	SCHEDULE function. Use this function to schedule a specific report, specifying many of its parameters.
RVCALL14	ZIIPYES and ZIIPNO function. Use these functions to enable or disable zIIP support.

Example Program	RVCALL Function Demonstrated
RVCALL15	ZIIPMAIN, ZIIPREVB, ZIIPHIST and ZIIPAUTO function. Use these functions to read zIIP statistics.

- A parameter area member, L-RVCALL. This member contains the parameter definitions for information that will be passed as input to RVCALL functions and as output from RVCALL functions.
- The RVCALL subprogram, N-RVCALL.

The rest of this chapter describes the functions of the RVCALL API, providing specific information about input parameters and output parameters for each:

START Function: Start a Report for a Single DBID, Specifying Many Parameters (RVCALL01)

You can use the START function to start a report from your Natural program for a single database.

Example program RVCALL01 is provided to show the use of this function.

> **Note:** A simpler method of starting a report using RVCALL is to use the **EZSTART function**, described later in this section.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required. The fields that are listed as "Maybe" (indicating that they *may be* required) are required only if the defined online report specifies comparable values.

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "START".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.
RVC-CLIENT	No	If "Y" is specified, reports will be started as Client Reports. Otherwise, reports will be started as normal reports.
RVC-REPORT-NAME	Yes	The exact report name. This name must exactly match the name of a defined online report.
RVC-DBID	Yes	The database ID (DBID) that should be monitored. This is the database from which data should be collected for the report.

Parameter	Required?	Description
RVC-ACCOUNT-FIELDS	Maybe	List the fields in the order in which they should be displayed. This list must exactly match the defined online report definition.
RVC-SUMMARY-FIELDS	Maybe	List the report fields whose total values should be calculated and displayed. Field names in the list should be separated with commas. Every field in the list will have its total calculated and displayed in the report. This list must exactly match the defined online report definition.
RVC-MAXIMUM-FIELDS	Maybe	List the report fields whose maximum values should be displayed in the report. Field names in the list should be separated with commas. Every field in the list will have its maximum value displayed in the report. This list must exactly match the defined online report definition.
RVC-MINIMUM-FIELDS	Maybe	List the report fields whose minimum values should be displayed in the report. Field names in the list should be separated with commas. Every field in the list will have its minimum value displayed in the report. This list must exactly match the defined online report definition.
RVC-AVERAGE-FIELDS	Maybe	List the report fields whose average values should be calculated and displayed in the report. Field names in the list should be separated with commas. Every field in the list will have its average value calculated and displayed in the report. This list must exactly match the defined online report definition.
RVC-PERCENT-FIELDS	Maybe	List the report fields whose percentage values should be calculated and displayed in the report. Field names in the list should be separated with commas. Every field in the list will have its percentage of the total field value calculated and displayed in the report. This list must exactly match the defined online report definition.
RVC-RATE-FIELDS	Maybe	List the report fields whose rate per second values should be calculated and displayed in the report. Field names in the list should be separated with commas. Every field in the list will have its rate per second calculated and displayed in the report. This list must exactly match the defined online report definition.
RVC-RANGE-FIELDS	Maybe	This parameter is reserved for use by support.
RVC-SELECT-FIELDS	Maybe	Processing rules for the report. This list or processing rules must exactly match the defined online report definition.
RVC-DISPLAY-PROGRAM	Maybe	The name of the Natural display program to use for the report. The default is "RVCALL00". This must exactly match the defined online report definition.
RVC-MAXIMUM-STORAGE	Maybe	The maximum amount of storage available for a summary report (specified in K). The default is 8K. This parameter should only be specified when a summary report is requested. This must exactly match the defined online report definition.

Parameter	Required?	Description
RVC-REPORT-FORMAT	Maybe	Indicates whether the report is a summary ("S") or detailed ("D") report. Valid values are "S" or "D"; "S" is the default. This must exactly match the defined online report definition.
RVC-DISPLAY-OPTION	Maybe	The sort option specifying how the data is to be sorted on a summary report. Possible display types are: ■ "SORTED": sort in ascending order by control break; ■ "USAGE": sort in descending order by command count; ■ "SUMFIELD": sort in descending order by the first field marked as a summary field; ■ "SORTEDDE": sort in descending order by control break; or ■ "DATETIME": sort in ascending order by the start date and time of the control break interval. This parameter should only be specified when a summary report is requested. This must exactly match the defined online report definition.
RVC-PRINT	Maybe	For a detailed report, specify whether or not the report is printed at database termination. For a summary report, specify whether or not the report is printed at database termination or when its refresh/history interval is reached. Valid values are "Y" (print the report) or "N" (do not print the report); the default value is "Y". This must exactly match the defined online report definition.
RVC-BREAK	Maybe	Indicates whether or not subtotals are printed at control breaks ("Y") or are suppressed ("N") on the summary report. The default is "Y". This parameter should only be specified when a summary report is requested. This must exactly match the defined online report definition.
RVC-WRAP	Maybe	Indicates whether or not the data collected for a summary report that has SEQUENCE as the first ORDER (control break) field can reuse data elements (i.e., wrap) once the total number of ENTRIES specified have been filled. Valid values are "Y" or "N"; the default is "N". This parameter should only be specified when a summary report is requested. This must exactly match the defined online report definition.
RVC-RESTART	Maybe	Indicates whether the summary report is restarted after the specified refresh/history interval or after the RVC-MAXIMUM-STORAGE limit (see the RVC-MAXIMUM-STORAGE parameter) is reached. Valid values are "Y" or "N"; the default is "Y". If "Y" is specified for the RVC-RESTART parameter, the summary report is refreshed automatically. If "N" is specified for the RVC-RESTART parameter, the summary report will be set with status "I" (inactive). Then, when the RVC-MAXIMUM-STORAGE parameter limit or the refresh/history interval are reached, the report will be closed. This

Parameter	Required?	Description
		parameter should only be specified when a summary report is requested. This must exactly match the defined online report definition.
RVC-LIMIT	Maybe	The maximum number of entries that the detailed or summary report can print. The default value allows all entries to be printed. When the limit is reached, the report will remain active, but no further data will be collected. This must exactly match the defined online report definition.
RVC-ENTRIES	Maybe	The maximum number of entries (that is, unique control breaks) that a summary report can maintain. This option is used to restrict the amount of data collected. When the limit is reached, the report will remain active, but no further data will be collected. This parameter should only be specified when a summary report is requested. This must exactly match the defined online report definition.
RVC-ADALIMIT	Maybe	The minimum command count for printing on a summary report. If ADALIMIT=100, only entries with a command count of 100 or higher are printed on the report. The default value (1) means that all entries are printed. This must exactly match the defined online report definition.
RVC-HISTORY	Maybe	Indicates whether the data collected by the report is to be written to an Adabas Review repository and stored as history data. Valid values are "Y" (store history data) and "N" (do not store history data). If "N" is specified, all other history parameters (RVC-HISTORY-INTERVAL, RVC-HISTORY-DBID, RVC-HISTORY-FNR, and RVC-HISTORY-SVC) are ignored. If "Y" is specified, the other history parameters are required. This must exactly match the defined online report definition.
RVC-HISTORY-INTERVAL	Maybe	The history interval in minutes. This is the time interval during which history data is collected by the report. This must exactly match the defined online report definition.
RVC-HISTORY-DBID	Maybe	The database ID (DBID) of the Adabas Review repository used to store the history data. This must exactly match the defined online report definition.
RVC-HISTORY-FNR	Maybe	The file number of the Adabas Review repository used to store the history data. This must exactly match the defined online report definition.
RVC-HISTORY-SVC	Maybe	The Adabas SVC number used to communicate with the Adabas Review repository in order to write the history data. This must exactly match the defined online report definition.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

SCHEDULE Function: Schedule a Report for a Single DBID, Specifying Many Parameters (RVCALL13)

You can use the SCHEDULE function to schedule a report from your Natural program for a single database.

Example program RVCALL13 is provided to show the use of this function.

> **Note:** A simpler method of scheduling a report using RVCALL is to use the **EZSCHEDULE function**, described later in this section.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. For the SCHEDULE function the same parameter apply as for the **START function**. The following table describes additional input parameters:

Parameter	Required?	Description
RVC-SCHED-DURATION	Yes	Specify the duration in minutes, hours or days the report will be active in one interval. The duration must be less than the interval. If duration = 0, then the duration is the time between Date/Time From and Date/Time To.
RVC-SCHED-DURATION-UNIT	Yes	Specify the unit in M (minutes), H (hour) or D (day) of the duration.
RVC-SCHED-INTERVAL	Yes	Specify the duration of one interval in minutes, hours or days.

Parameter	Required?	Description
		The number of intervals will be determined from Date/Time From and Date/Time To. If interval = 0, a report will not be scheduled.
RVC-SCHED-INTERVAL-UNIT	Yes	Specify the unit in M (minutes), H (hour) or D (day) of the interval.
RVC-SCHED-DATE-FROM RVC-SCHED-TIME-FROM	Yes	Specify the date/time, when the report will be active for the first time. When the date/time is in the past, the report starts when the next calculated interval starts.
RVC-SCHED-DATE-TO RVC-SCHED-TIME-TO	Yes	Specify the date/time after which no more interval will be started. The last interval may go beyond the Date/Time To.

DELETE Function: Purge a Started Report (RVCALL02)

You can use the DELETE function to to purge a started report from Adabas Review. All information that has been accumulated by the report will be deleted.

Example program RVCALL02 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "DELETE".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.
RVC-REPORT-NAME	Yes	The exact report name. This name must exactly match the name of a defined online report.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

CLOSE Function: Close a Report (RVCALL03)

You can use the CLOSE function to remove a report from Adabas Review. All information that has been accumulated by the report will be deleted. However, if the report was defined as a history report, all history information remains written to the Adabas Review repository, if applicable. The report will then be restarted if RESTART=Y was specified on the Report Options screen when the online report was created or if the RVC-RESTART parameter was set to "Y" in an RVCALL run.

Example program RVCALL03 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "CLOSE".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.
RVC-REPORT-NAME	Yes	The exact report name. This name must exactly match the name of a defined online report.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

SUSPEND Function: Suspend a Report (RVCALL04)

You can use the SUSPEND function to suspend the accumulation of data for a report. The report will remain in storage and can still be viewed. In addition, the report data accumulation can be reactivated using the REACT function.

Example program RVCALL04 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "SUSPEND".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.
RVC-REPORT-NAME	Yes	The exact report name. This name must exactly match the name of a defined online report.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

REACT Function: Reactivate a Suspended Report (RVCALL05)

You can use the REACT function to reactivate data collection for a report for which data collection was previously suspended. The report will resume accumulating data. No data will be lost; however, data that might have been collected during the suspension period will be missing.

Example program RVCALL05 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "REACT".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.
RVC-REPORT-NAME	Yes	The exact report name. This name must exactly match the name of a defined online report.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - *Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

LIST Function: List Started Reports (RVCALL06)

You can use the LIST function to receive an array of the reports that have been started, up to a maximum of 250 REPORT. All reports are shown, regardless of whether they are active or suspended.

Example program RVCALL06 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "LIST".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.

Returned Information

The following parameters are returned. Study them for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.
RVC-LIST-NUMBER	The number of started reports.
RVC-LIST-NAME	The name of the started report.
RVC-LIST-START	The time the report was started in HH:MM format.
RVC-LIST-START-DATE	The date the report was started in YYYY-MM-DD format.
RVC-LIST-RTYPE	Indicates whether the report is a regular Adabas Review report ("D") or an Adabas Review client report ("C").
RVC-LIST-RSTATUS	The report status. For the first character the possible values are active ("A"), suspended ("S"), or insufficient ("I"). For the second character the possible values are scheduled ("S"), or not scheduled (" ").
RVC-LIST-RFORMAT	The report format indicator ("D", for detailed; "S" for summary).
RVC-LIST-HIST	The report history indicator ("Y" if history data has been requested; "N" if it has not).
RVC-LIST-RNUM	The report number.
RVC-LIST-PROG	The report program name.
RVC-LIST-LOG	The current Adabas Review log file number.
RVC-LIST-TARGET-ALPHA	This parameter will be set to "ALL" if "ALL" was specified for monitoring DBIDs. Otherwise, it will be blank and should be ignored.
RVC-LIST-TARGET-NUMERIC	This parameter will be set to the database ID of the monitored database if a specific database ID was specified to be monitored. Otherwise, it will be blank and should be ignored.
RVC-NEXT-ACT	If report is scheduled, indicates, when the report will be moved to the started reports queue the next time.
RVC-COUNT-ACTIVE	If report is scheduled, the number of times a report moved from the wait queue to the started reports queue since it was scheduled.
RVC-NEXT-WAIT	If report is scheduled, indicates, when the report will be moved to the wait queue and stops collecting data.
RVC-COUNT-WAITS	If report is scheduled, the number of times a report moved from the started reports queue to the wait queue since it was scheduled.

Parameter	Description
RVC-DURA	If report is scheduled, the time in minutes, the report will be in the started reports queue after it has been (re)activated. For example, 5 means it stays in the started reports queue for 5 minutes. If `interval=60`, the reports runs for 5 minutes every hour.
RVC-INTERVAL	If report is scheduled, the time in minutes after which the report will be moved to the started reports queue again. Zero (0) means it is never reactivated again. For example, 60 means the report will be reactivated every 60 minutes. If `duration=5`, the reports runs for 5 minutes every hour.

LISTSCH Function: List Scheduled Reports (RVCALL11)

The LISTSCH function lists scheduled reports, waiting to become active up to a maximum of 250 reports.

The Input Parameters and the Returned Information are the same as for the **LIST function**.

GETHUBID Function: Obtain a Hub ID (RVCALL07)

You can use the GETHUBID function to return the first Adabas Review hub ID found to your Natural program.

Example program RVCALL07 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "GETHUBID".
RVC-SVC	Yes	The SVC that should be searched for the hub ID.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-REVIEW-TARGET	The first Adabas Review hub ID found under the SVC specified in the GETHUBID call.
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

GETDBID Function: Obtain LFILE DBID (RVCALL08)

You can use the GETDBID function to return the database ID associated with the Natural logical file (LFILE) 241 to your Natural program.

Example program RVCALL08 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "GETDBID".

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-DBID	The database ID (DBID) associated with Natural LFILE 241.
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

EZSTART Function: Start Reports for One or All DBIDs (RVCALL09)

You can use the EZSTART function to start a report from your Natural program for one or more databases. Very few parameters are required because the reports started with EZSTART automatically use the definitions already specified for the report in SYSREVDB.

> **Note:** The Adabas Review address must not be set before executing EZSTART. This means do not execute **VIEWON** or execute **VIEWOFF** before EZSTART.

Example program RVCALL09 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "EZSTART".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.
RVC-REPORT-NAME	Yes	The exact report name. This name must exactly match the name of a defined online report.
RVC-DBID *or* RVC-ALL	Yes	Specify *either*: ■ the database ID (DBID) that should be monitored (this is the database from which data should be collected for the report) in the RVC-DBID parameter; or

Parameter	Required?	Description
		■ "ALL" for the RVC-ALL parameter to indicate that all DBIDs should be monitored. **Caution:** Be careful that you do not specify a hub ID in RVC-DBID. This is not programmatically prevented and will cause errors.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

EZSCHED Function: Schedule Reports for One or All DBIDs (RVCALL12)

You can use the EZSCHED function to schedule a report from your Natural program for one or more databases. Very few parameters are required because the reports scheduled with EZSCHED automatically use the definitions already specified for the report in SYSREVDB.

> **Note:** The Adabas Review address must not be set before executing EZSCHED. This means do not execute VIEWON or execute VIEWOFF before EZSCHED.

Input Parameters

For input parameters the same applies as for the **EZSTART function**.

VIEWON Function: Access the Review Address Space (RVCALL10)

You can use the VIEWON function to obtain access to the Adabas Review address space from your Natural program. When subsequent FINDs are issued by your Natural program, the information returned comes from within the executing Adabas Review address space. VIEWON must make a change to your environment to allow this. Use the **VIEWOFF** function to restore your original working environment.

> ⛔ **Caution:** You *must* execute the VIEWON and VIEWOFF functions in the same Natural program (information is retained in the local parameter area for the LFILE). They must be executed in pairs; if they are not it can create an unstable situation for your environment.

Example program RVCALL10 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "VIEWON".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.
RVC-DBID	Yes	The database ID (DBID) that should be monitored, This is the database from which data should be collected for the report.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

VIEWOFF Function: Restore the Adabas Review Environment (RVCALL10)

You can use the VIEWOFF function to restore your original working environment after having executed a VIEWON. Use this function once your Natural program has finished gathering information when the **VIEWON** function had been specified.

> ⚠ **Caution:** You *must* execute the VIEWON and VIEWOFF functions in the same Natural program (information is retained in the local parameter area for the LFILE). They must be executed in pairs; if they are not it can create an unstable situation for your environment.

Example program RVCALL10 is provided to show the use of this function.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "VIEWOFF".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed.
RVC-NUCID	No	The nucleus ID to which calls should be routed. When specified, calls are routed to the RVC-REVIEW-TARGET database and this nucleus (DBID/NUCID) combination.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*, in the *Adabas Review Messages and Codes Manual*.
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read *Adabas Response Codes* in the documentation, in the *Adabas Review Messages and Codes Manual*.

ZIIPYES/ZIIPNO Function: Enable/Disable Adabas Review zIIP Support (RVCALL14)

zIIP Support is available when Adabas Review was started with ZIIP=YES. At runtime you can enable/disable zIIP support using the ZIIPYES/ZIIPNO functions. The ZIIPYES/ZIIPNO functions operate the same way as the RZIIP batch command and the ZIIP=YES/NO online command.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "ZIIPYES" or "ZIIPNO".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed. Must be started with ZIIP=YES.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, refer to *RVCALL* - Adabas Review RVCALL API Messages*.

ZIIPMAIN, ZIIPREVB, ZIIPHIST, ZIIPAUTO Function: Display Adabas Review zIIP Statistics (RVCALL15)

The ZIIPMAIN, ZIIPREVB, ZIIPHIST and ZIIPAUTO functions provide session statistics which inform about the performance of Adabas Review for zIIP. The statistics are available when Adabas Review has been started with ADARUN parameter ZIIP=YES.

zIIP statistics in Adabas Review have been setup so that the four subtasks (REVIEWB/REVB, RE-VHUB/MAIN, REVHIST/HIST and REVAUTO/AUTO) can be monitored separately from each other. To achieve this, an enclave has been defined for each subtask. The zIIP statistics for the

whole Adabas Review address space apply to all subtasks/enclaves and thus show the same values. They will be displayed at the start and at the end of the zIIP statistics.

For a detailed description of the single statistics values see the Adabas Review documentation.

Input Parameters

Input parameters should be specified as defined in the L-RVCALL member. Some input parameters are required for this function. The following table describes the possible input parameters and whether or not they are required:

Parameter	Required?	Description
RVC-FUNCTION	Yes	This parameter should be set to "ZIIPMAIN", "ZIIPREVB", "ZIIPHIST" or "ZIIPAUTO".
RVC-REVIEW-TARGET	Yes	The target database or hub ID to which calls should be routed. Must be started with ZIIP=YES.

Returned Information

Check the following parameters for the results of RVCALL processing for this function.

For detailed information of the zIIP-related parameters see *Understanding the zIIP-Related Statistics* in the *Adabas Review for zIIP* documentation.

Parameter	Description
RVC-RESPONSE-CODE	The return code indicating the success of RVCALL processing. A return code of zero ("0") indicates that processing completed successfully.
RVC-RESPONSE-MSG	The RVCALL error message that occurred as a result of RVCALL processing. For complete information, read *RVCALL* - Adabas Review RVCALL API Messages*.
RVC-SUM	Total CPU time
RVC-CPUA	Non-enclave GP times
RVC-CPUA-P	Non-enclave GP times %
RVC-GPET	All enclave GP times
RVC-GPET-P	All enclave GP times %
RVC-ZPET	All enclave zIIP times
RVC-ZPET-P	All enclave zIIP times %
RVC-CPUT	Total enclave CPU time
RVC-DIFF	Enclave GP time
RVC-DIFF-P	Enclave GP time %
RVC-ZTIM	Enclave zIIP time
RVC-ZTIM-P	Enclave zIIP time % relative to RVC-CPUT (Total enclave CPU time)

Parameter	Description
RVC-ZTIM-P2	Enclave zIIP time % relative to RVC-ZQCP (Eligible zIIP CPU time)
RVC-ZQCP	Eligible zIIP CPU time
RVC-SCPU	Eligible zIIP time on GP
RVC-SCPU-P	Eligible zIIP time on GP %
RVC-SRB-TCB	Mode switches SRB + TCB
RVC-QPRQ	Parallel requests
RVC-XRQE	No free element for request
RVC-QPRQ-PAUSE	Parallel request per TCB pause
RVC-PAUS	Pause
SRB RVC-RLSS	Release
SRB RVC-PAUT	Pause TCB
RVC-RLSE	Release TCB
RVC-WAIT	Pause for wait
RVC-RLSE	Release from wait
RVC-GCOR	GPs
RVC-ZCOR	zIIPs
RVC-ZTHR	zIIP SMT threads
RVC-NORM	zIIP normalization factor
RVC-USER	Components "by type of work" causing mode switches or parallel requests.
RVC-USER-CNT	Switch counter for RVC-USER components
RVC-USER-CNT-A	Blank, K, M, G or T; blank is the full value, K(ilo) divided by 1,000, M(ega) divided by 1,000,000, G(iga) divided by 1,000,000,000 and T(era) divided by 1,000,000,000,000.
RVC-USER-OVF	Overflow flag: X, when RVC-USER-CNT is H'FFFFFFFFFFFFFFFF'

7   The Review CHECKLOG Utility

Review provides a batch utility that allows you to view the content structure of an Adabas or Review-created command log. It does not display the actual contents of the command log, only the structure. It will display the block size, record size, and a map of each segment of the command log. With this utility, you can see if there is a CLEX, and which buffers were logged. It also shows the length of each segment.

The output of this utility can be a printer or a dataset depending on your JCL. If it is a dataset, it can be downloaded and used as an Excel CSV file. Each segment is delimited with a semi-colon.

Below is a sample of CHECKLOGs output:

```
4;BDW;9646;<Block>
1247;REV;24;<BASIC>;344;<ACB>;48;<ABD>;640;<CLXD>;48;<ABD>;7;<SB>;48;<ABD>;8;<VB>;48;<ABD>;32;<FB>
```

Each new block is indicated in this example, and the block length is shown. The second line shows the length of the first record, followed by "REV" if the log was created by Review or if it was created by Adabas to be sent to Review. It will show "ADA" if it was written by Adabas, and the records are not being sent to Review.

Next is the length of the command log's basic portion, which is 24 bytes. This is followed by "<BASIC>". This is followed by the length of the ACBX (344 bytes), followed by the various buffers and their lengths. The record displayed above shows a 640-byte CLEX, a 48-byte ABD (Adabas Buffer Descriptor), a 7-byte Search Buffer ETC.

CHECKLOG only reads command logs written by Adabas or Review. TLOGs and other types of command logs are not recognized by CHECKLOG.

You can run CHECKLOG using the sample *JCL* located in the REVIEW.MVSJOBS library.

Example:

```
//CHECKLOG JOB   REVIEW,CLASS=X,MSGCLASS=X
//*
//**********************************************************
//*    This sample jobstream will execute the CHECKLOG     *
//*    utility. The Checklog utility is a simple batch job  *
//*    that reads commands logs and outputs the layout of   *
//*    each record.                                          *
//**********************************************************
//*
//STEP1    EXEC  PGM=CHECKLOG
//STEPLIB  DD    DISP=SHR,DSN=REVIEW.LOAD
//*
//CLOGIN   DD    DISP=SHR,DSN=COMMAND.LOG.DATASET
//LINEOUT  DD    SYSOUT=X
//SYSOUT   DD    SYSOUT=X
//SYSUDUMP DD    SYSOUT=X
//
```

As shown in the example, the CHECKLOG executable is in the Review load library.

8 Tracing SYSREVDB

The SYSREVDB internal trace collects tracing data during the execution of SYSREVDB. The data can be viewed on the screen or downloaded to a PC.The trace helps support when analyzing issues of SYSREVDB.

The trace is controlled by the `TRACE` command which may be issued from any screen in SYSREVDB.

The `TRACE` command and the supported options are described in detail in the *Command Reference > TRACE Command*.

Trace information is not provided by every module of SYSREVDB. The trace is expanded as needed.

Using the TRACE Command

Before you start the SYSREVDB trace, navigate to the page which you want to trace.

≫ **To start the trace:**

■ Enter the command `TRACE ON` on the command line. This starts the full trace (level 9). If less data should be collected, use smaller trace level, like TRACE 4.

Once the trace is started, perform the SYSREVDB functions which should be traced. Then stop the tracing and print or download the trace data.

≫ **To stop the trace:**

■ Enter the command `TRACE OFF` on the command line.

≫ **To print the trace data on the screen:**

■ Enter the command `TRACE PRINT` on the command line.

≫ **To download the trace data to the PC:**

■ Enter the command `TRACE EXPORT` on the command line.

When you stop and restart the trace, the new data is added to the data collected before. If you want to start a new trace from scratch, you must clear the trace data.

≫ **To clear the trace data:**

■ Enter the command `TRACE CLEAR` on the command line.

The trace data is implicitly cleared when you leave the SYSREVDB library.

> **To receive the trace status:**

■ Enter the command `TRACE` (without option) on the command line. It prints the trace status (started or stopped) and if started, the used trace level.

Trace Output

In general, a trace entry contains a time stamp, the name of the object currently executing and the trace entry itself. The first trace entry shows the trace level, the Adabas Review version, and the version of SYSREVDB.

Example of a trace output:

```
2024-04-24 15:20:48.3 N-TRACE Trace is started. Level: 9 Review: 5.3_SP1 SYSREVDB: ↵
5.3.1.
2024-04-24 15:20:58.3 S-DBCMD Start of function 'Process command'. Command: TRACE ↵
OFF
2024-04-24 15:20:58.3 N-TRACE Start of function 'Maintain TRACE command'.
2024-04-24 15:20:58.3 N-TRACE Trace is stopped.
```

Using the REVTRACE Program

In a batch job or from the NEXT input, the trace can be maintained with the REVTRACE program. The REVTRACE program provides the same options as the TRACE command.

REVTRACE also allows tracing of the SYSREVDB initialization which is done before the main menu is displayed.

The REVTRACE program is described in *Using Adabas Review in Batch Natural > Tracing SYSREVDB using Batch Natural*.

Example of tracing SYSREVDB in batch Natural:

```
LOGON SYSREVDB
REVTRACE ON
SET TARGET=00129,DBID=177,FILE=37
DELHIST HIST-TEST 2022-11-24 2022-12-01
REVTRACE PRINT
REVTRACE EXPORT
FIN
```

In batch, the exported trace data is written to work file 7.

Index

Symbols

A

B

C

D

E

G

H

L

M

N

P

R