

# **Adabas Review**

## **Administration**

Version 4.8.2

September 2018

This document applies to Adabas Review Version 4.8.2 and all subsequent releases.

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

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# 1 About this Documentation

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## Document Conventions

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

## Online Information and Support

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## **Data Protection**

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

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## 2 Maintaining User Profiles

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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 SYSREVDDB 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. Software AG recommends 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

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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:



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.

- 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:

- 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.



- 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

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



```

14:52:16          A D A B A S  -  R E V I E W          2016-08-23
                Edit Profile:

                Profile Settings
+-----+
| Restrict lists to allowed DBIDs? N |
+-----+

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	<u>Y</u>   N	Indicates whether users assigned the profile are allowed access to the Available SVCs screen.
Access Review?	1	No	<u>Y</u>   N	Indicates whether users assigned the profile are allowed to access Adabas Review.
Access User Profiles?	1	No	<u>Y</u>   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	<u>Y</u>   N	Indicates whether users assigned the profile are allowed to run the LFILE command.
Change Report Status?	2	No	<u>Y</u>   N	Indicates whether users assigned the profile are allowed to suspend or reactivate reports from the Started Reports (LS) screen.
Change Repository?	2	No	<u>Y</u>   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	<u>Y</u>   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.
Compress History Reports?	2	No	<u>Y</u>   N	Indicates whether users assigned the profile are allowed to request history report compression.
Confirm Purge/Save Requests?	1	No	<u>Y</u>   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   <u>AUTO</u>   <u>LFILE</u>	<p>In hub mode, specify either the number of the hub ID that should be used or "AUTO".</p> <p>In local mode, specify the number of the database ID (DBID) running in local mode. "0", "LFILE" or "AUTO" can also be specified.</p> <ul style="list-style-type: none"> <li>■ If "0" is specified, the value is determined as if "LFILE" were specified.</li> <li>■ 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.</li> <li>■ If "AUTO" is specified, the value is determined from the SVC (or IDTNAME) of the current Natural</li> </ul>

Access Rule Name	Page	Required?	Valid Values (Defaults are underlined)	Description
				<p>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.</p> <p><b>Note:</b> 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.</p>
Default Repository DBID	1	No	nnnnn   0  <u>LFILE</u>	<p>The database ID where the Adabas Review repository (history) file resides. "LFILE" or "0" can also be specified.</p> <ul style="list-style-type: none"> <li>■ If "0" is specified, the value is determined as if "LFILE" were specified.</li> <li>■ If "LFILE" is specified, the value is determined from the LFILE setting of the current Natural session.</li> </ul>
Default Repository File	1	No	nnnnn   0  <u>LFILE</u>	<p>The file number of the Adabas Review repository (history) file. "LFILE" or "0" can also be specified.</p> <ul style="list-style-type: none"> <li>■ If "0" is specified, the value is determined as if "LFILE" were specified.</li> <li>■ If "LFILE" is specified, the value is determined from the LFILE setting of the current Natural session.</li> </ul>
Description	1	Yes	Twenty alphanumeric characters	A description of the profile.
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.

Access Rule Name	Page	Required?	Valid Values (Defaults are underlined)	Description
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 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 <b>Specific DBIDs to Monitor</b> 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.
Purge Started Reports?	2	No	<u>Y</u>   N	Indicates whether users assigned the profile are allowed to delete data collected by started reports.
Purge Targets?	2	No	<u>Y</u>   N	Indicates whether users assigned the profile are allowed to delete target definitions.
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.
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

Access Rule Name	Page	Required?	Valid Values (Defaults are underlined)	Description
				user profile when the <b>Monitor All Targets?</b> 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 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 edit and press **Enter**.  
  
The profile is displayed and may be edited. Read [User Profile Access Rules](#) (elsewhere in this section) for additional information.
- 2 Enter the command **EU** on the selection line preceding the profile name you want to copy.
- 3 Type the new user ID or group ID in the **User ID / Group ID** field.
- 4 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

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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.



**Note:** SVC information does not appear in BS2000 environments; BS2000 does not use SVCs.

## 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.

```

02:51:48          A D A B A S - R E V I E W          2016-06-20
                  Available SVCs                    Target=15690
                  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 and z/VSE, 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.

 **Notes:**

1. In CICS environments, only the one SVC that is in the link routine appears on this screen.
2. In BS2000 environments, this screen is not displayed. The user only has access to the router (IDTNAME) on which this application is running. Instead of displaying this screen, control is passed to the Available Targets screen.

## Displaying Targets Associated with an SVC or Router

➤ To display a list of all targets known to a particular z/OS or z/VSE SVC number or to a BS2000 router:

- In z/OS and z/VSE environments, mark an SVC on the **Active Adabas SVCs** screen with an "X", and press ENTER.

Or:

In BS2000 environments, enter the AA command from any command line.

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.

```

02:52:52                A D A B A S - R E V I E W                2016-06-20
                        Available Targets                          Target=15690
                        SVC 227

      DBID      NUCID      Prod   Class   Job Name   Job ID      Date       Time
-----
! _  11231      N/A      ADA    I      SCASUPDB   JOB24605   2009-06-16  15:51:55 !
! _  19999      N/A      ADA    I      ATEXXMPM   JOB36900   2009-06-17  20:13:34 !
! _  15640      N/A      ADA    I      SSWSUPDB   JOB57199   2009-06-19  20:15:20 !
! _  7771       N/A      ADA    I      WT1ATA     JOB57290   2009-06-19  20:36:35 !
! _  15690      N/A      REV    I      SSWATAH    JOB57233   2009-06-19  20:18:21 !
! _  15650      N/A      ADA    I      SSWATAN1   JOB57235   2009-06-19  20:18:26 !
!
!
!
!
!
!
-----
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.
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 In z/OS and z/VSE environments, mark an SVC on the **Available SVCs** screen with an "X", and press ENTER.

Or:

In BS2000 environments, enter the AA command from any command line.

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.

```

02:53:49                A D A B A S - R E V I E W                2016-04-25
                        ADABAS Availability                        Target: 15650 ←

  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 !
+-----+-----+-----+-----+-----+-----+
Component      Reads      Writes          ! Fmat Ovwrt       33 !
                  ! Fmat Trans       73 !
                  ! Thread Sw       293244 !
                  ! Throwbacks       0 !
+-----+-----+-----+-----+-----+
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 (z/OS and z/VSE environments only).
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.

Screen Field	Displays
Throwbacks	The number of throwbacks performed by the database.
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

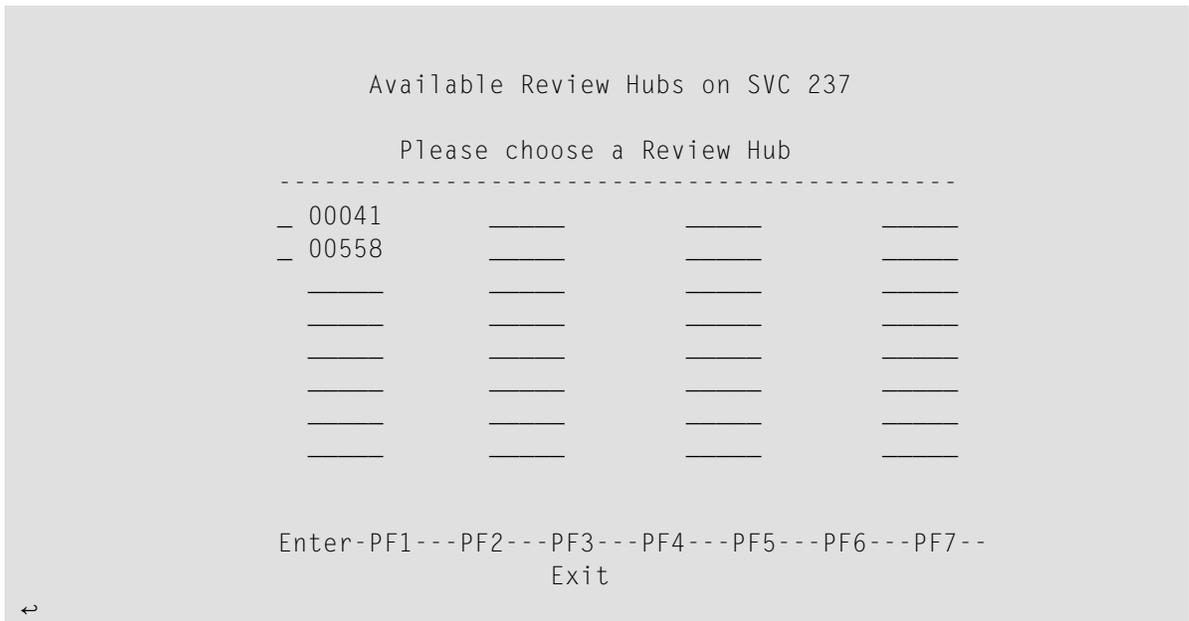
The Adabas Availability (AH) subsystem displays available Adabas Review hubs associated with an Adabas supervisor call (SVC).

This function only displays the available Adabas Review hubs which run on the default SVC that is specified in the ADALNK routine.

➤ **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 z/OS or z/VSE SVC or BS2000 router appears.



 **Note:** In BS2000 environments, the text "on SVC *nnn*" does not display.

- 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 and RVUAUT2 job control statements. 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:

```

02:54:32          A D A B A S  -  R E V I E W          2016-06-20
                  Edit Target                          Target: 15690

      Database Parameters                               Numeric Delimiters
+-----+-----+                                     +-----+-----+
!  Target DBID ....            !                   !  Buffers-4K ..... 00200   !
!  Target SVC   .... 000   !                   !  Buffers-32K ..... 00030   !
!  Target Version . 000   !                   !  Files (VSE only) . 001    !
+-----+-----+                                     +-----+-----+

                                Logging Options
+-----+-----+                                     +-----+-----+
!  Target Name .....                                    !
!  REVIEW Commands ..... Y (Y or N) !
+-----+-----+                                     +-----+-----+

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

 **Note:** SVC information does not appear on this screen in BS2000 environments; BS2000 does not use SVCs.

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 parameters BUFFERS-4K and BUFFERS-32K in the Adabas Review INPUT statement control the size allocation. The value 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)	<i>nnnnn</i>	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 in z/OS and z/VSE environments)	<i>nnn   000</i>	The number of the SVC used to communicate with the target. This is not relevant in BS2000 environments.
Target Version	<i>nnn   000</i>	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
Buffers-4K	<i>nnnn</i>	Defines the number of buffer pool entries that have a length of 4096 or less. This parameter is usually specified along with the BUFFERS-32K parameter. The minimum value is 124.
Buffers-32K	<i>nnnn</i>	Defines the number of buffer pool entries that have a length of 4097 or greater. This parameter is usually specified along with the BUFFERS-4K parameter. The minimum value is 15.
Files (z/VSE only)	<i>nnn   001</i>	Specifies the number of command log files to be processed (used for GENCARD).

### Logging Options

Field	Value	Description
Target Name	<i>name</i>	The name you use to identify the target database.
Review Commands	<i>Y   N</i>	<p>Indicates whether commands issued by Adabas Review should be included in the command processing for all reports.</p> <p><b>Note:</b> In hub mode, this then applies for all databases running with this hub.</p> <p>REVIEW-COMMANDS=NO indicates that special Adabas commands for Adabas Review (for example V4 commands) are not used for accounting and monitoring. To suppress RC commands issued from the SYSREVDDB application as well, set the Natural profile ADAPRM parameter ON (ADAPRM=ON).</p> <p>REVIEW-COMMANDS=YES indicates that these commands are used for accounting and monitoring.</p> <p><b>Note:</b> Some fields might not be available for the commands supported by Adabas Review online system (V4 commands), especially when running in a hub</p>

Field	Value	Description
		environment. These fields include TP monitor fields, Natural fields, duration fields and buffer fields.

## 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:

```

02:55:24          A D A B A S - R E V I E W          2016-06-20
                  Target Definitions                Target: 15690

   Sel  DBID      Target Name                    Ver      SVC      Review
   ----  ----      -
+-----+-----+-----+-----+-----+-----+
!  ___  00000    DEFAULT TARGET                    813      227      Y      !
!  ___  15650    DATABASE-15650                          813      227      Y      !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
!                                     !
+-----+-----+-----+-----+-----+-----+

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

 **Note:** SVC information does not appear on this screen in BS2000 environments; BS2000 does not use SVCs.

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. SVC information is not displayed and is not relevant in BS2000 environments.
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.

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 and RVUAUT2 job control statements. 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` and `RVUAUT2` job control statements. 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 has to be added at the end. 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 = ffffff
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 <i>not</i> 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 <i>cannot</i> be in the deprecated user field name formats "USRFLD $nn$ " or "USERFLD $n$ ".

Parameter	Values	Description
CALC	YES   NO	Whether the field can be used for SUM, AVG, PCT, RATE.  <b>Note:</b> This option is only useful for binary/numeric fields. However, it is not checked whether CALC=YES is combined with an alphanumeric definition. Doing so might result in an unexpected output value.
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 <i>fffffff</i> 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 <i>Field Reference</i> in the <i>Adabas Review Reference Guide</i> . 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 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	<i>(logical-condition;value),...</i>	This parameter specifies a logical condition and value, which determine the content of the user-defined field. Specify a condition and value

Parameter	Values	Description
		<p>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.</p> <p>This parameter is mutually exclusive with the FIELD, OFFSET and EXTOFF parameters.</p>
<i>logical-condition</i>	<i>field-name comparator compare-value [{AND OR} field-name comparator value ...]</i>	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.
<i>field-name</i>		This parameter specifies the Adabas Review field name used in the logical expression. <i>field-name</i> can also be a user-defined field, as long it has been defined prior to the actual user-defined field.
<i>comparator</i>	{= ≠ < > EQ NE LT GT}	This parameter defines the compare operation between the field name and the value.
<i>compare-value</i>	[( 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 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.
<i>value</i>	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)
```



# 5 Managing Client Reporting

---

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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. You can determine the status of the Adabas Review client reporting as well as turn it on and off. You can do this online (in SYSREVDDB) and in batch environments. This chapter describes both.

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

## Managing Client Reporting Online

---

Use the Client Management screen in SYSREVDDB 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:

```
15:29:01                A D A B A S  -  R E V I E W                2016-03-01
                        Client Management                        Target: 00559

                        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

---

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 RVCLPARG 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 :

```
RVCLPARG DSECT
RVCL      DS      0XL1024
RVCLEYE   DS      CL4   EYE CATCHER VERSION OF THIS CONTROL BLOCK
RVCLVERS  DS      CL4   RVCLPARG 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 Software AG's 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  
/**
```

# 6 Performing Adabas Review Online Functions from Natural Programs

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You can perform Adabas Review SYSREVDDB (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 SYSREVDDB library.

- Ten example programs named "RVCALL01" through "RVCALL10" 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 remove a report from 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.

- 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.
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

Parameter	Required?	Description
		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 Software AG use.
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.
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: <ul style="list-style-type: none"> <li>■ "SORTED": sort in ascending order by control break;</li> <li>■ "USAGE": sort in descending order by command count;</li> <li>■ "SUMFIELD": sort in descending order by the first field marked as a summary field;</li> </ul>

Parameter	Required?	Description
		<ul style="list-style-type: none"> <li>■ "SORTEDDE": sort in descending order by control break; or</li> <li>■ "DATETIME": sort in ascending order by the start date and time of the control break interval.</li> </ul> <p>This parameter should only be specified when a summary report is requested. This must exactly match the defined online report definition.</p>
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 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

Parameter	Required?	Description
		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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## DELETE Function: Remove a Report (RVCALL02)

You can use the DELETE function to remove a report from Adabas Review. All information that has been accumulated by the report will be deleted. If the report was defined as a history report, all history information will also 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
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").

Parameter	Description
RVC-LIST-RSTATUS	The report status. Possible values are active ("A"), suspended ("S"), or insufficient ("I").
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.

## 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## 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 SYSREVDDB.



**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 <i>either</i> : <ul style="list-style-type: none"> <li>■ 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</li> </ul>

Parameter	Required?	Description
		<ul style="list-style-type: none"> <li>■ "ALL" for the RVC-ALL parameter to indicate that all DBIDs should be monitored.</li> </ul> <p><b>Caution:</b> Be careful that you do not specify a hub ID in RVC-DBID. This is not programmatically prevented and will cause errors.</p>

### 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .

## 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 <i>RVCALL* - Adabas Review RVCALL API Messages</i> , in the <i>Adabas Review Messages and Codes Manual</i> .
RVC-ADABAS-RESPCODE	The Adabas response code resulting from RVCALL processing. For complete information, read <i>Adabas Response Codes</i> , in the <i>Adabas Review Messages and Codes Manual</i> .



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