



ACR/Summary[®] and ACR/Detail[®]

Installation Guide for UNIX[®] and Linux[®] | Release 4.5



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Introduction

This manual explains how to install ACR/Detail and ACR/Summary for UNIX or Linux and how to install and maintain your licensing. It includes instructions for installing ACR/Summary Client or ACR/Detail Client on a Windows-based machine and for upgrading to this release from a previous release.

Note: To upgrade from a release previous to Release 4.0, you must follow the instructions for your product in Chapter 5, “Upgrading from a Pre-Release 4.0 Release” on page 23.

If you are unsure whether you have the latest software, please contact Customer Support for verification before beginning the installation.

This chapter includes the following sections:

- “Audience” on page 5
- “Organization of Information” on page 5
- “System Requirements” on page 6
- “Contacting Customer Support” on page 6

Audience

This guide is written for the personnel who will perform the installation. A knowledge of system installation and scripts is required.

Organization of Information

The remaining chapters contain the following information:

Chapter 2, “Installing on the UNIX or Linux Host” provides instructions for installing ACR/Detail and ACR/Summary on the UNIX or Linux host and preparing the products for use.

Chapter 3, “Installing the Client” provides instructions for installing ACR/Summary Client or ACR/Detail Client on a Windows-based machine.

Chapter 4, “Licensing Infogix Products” explains how to establish and update your licensing and how to maintain your AppTrack licensing.

Chapter 5, “Upgrading from a Pre-Release 4.0 Release” provides instructions for upgrading ACR/Summary and ACR/Detail for UNIX or Linux from a release previous to Release 4.0.

System Requirements

For system requirements for the host and client, see “System Requirements for the Host” on page 8 and “System Requirements for the Client” on page 16.

Contacting Customer Support

If you need assistance, contact Infogix Customer Support.

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Installing on the UNIX or Linux Host

This chapter describes how to install ACR/Summary and ACR/Detail on the UNIX or Linux host. It contains the following sections:

- “Before You Begin” on page 7
- “System Requirements for the Host” on page 8
- “Login and Mount the CD-ROM” on page 8
- “Run the Setup Script” on page 8
- “Post-Installation Instructions” on page 9
- “Maintaining Micro Focus Licenses” on page 14

Before You Begin

Before you begin installation do the following:

- Verify that your UNIX or Linux system meets the requirements described in the next section.
- Make sure you have received the following:
 - The CD-ROM for installing ACR/Summary and ACR/Detail on each UNIX or Linux machine for which you are licensed.
 - The e-mail with the appropriate Micro Focus Application Server licenses. You will need this when running the setup script if this is the first time that AppTrack Licenses are being used on your system.
- Root login is required at installation for proper setup and assignment of permissions to execute ACR/Summary and ACR/Detail. Root login is not needed to run the product, e.g. acrmgr and acrgp (see immediately below).
- An administrative account (acrmgr) and group (acrgp) must be created to manage the resources associated to ACR/Summary and ACR/Detail. This account requires that \$HOME/bin is set in its PATH.
- Assign two ports for acrmgr communications with the client or ACR/Workbench. You may want these ports to be reserved in your global services file.

System Requirements for the Host

The table below describes the UNIX and Linux minimum system requirements.

Vendor	Operating System	Approximate Installation Size
IBM	AIX 6.1 or higher	207 MB
Oracle	Solaris 9 or higher	64 MB
Red Hat Enterprise	Linux 5.3 or higher (64 bit)	178 MB

Login and Mount the CD-ROM

After logging in as root, mount the software CD-ROM. The general mount command format is:

```
mount {options} {device file} {mount point}
```

For the mount instructions for your platform, see the platform-specific sections below.

Mounting the CD on AIX

The command is:

```
mount -v cdrfs -o ro /dev/cd0 /cdrom
```

Mounting the CD on Solaris

The CD automatically mounts at:

```
/cdrom/cdrom0
```

Mounting the CD on Linux

The command is:

```
mount /media/cdrom
```

Run the Setup Script

On UNIX, run the setup script on the CD, `setup.sh`.

On Linux, run the command `sh ./setup.sh`.

This will prompt you through the installation.

A successful execution will produce this message:

```
*** Installation of ACR/Summary and ACR/Detail completed
successfully. ***
```

Post-Installation Instructions

Ensure that Users Have Access

All users who will need access to ACR/Summary and ACR/Detail must be members of the administrative group (e.g. acrgrp).

Automating Start/Stop of the Product Daemon (Optional)

You can use the `sstart` and `sstop` scripts in the administrative account's `/bin` directory to create an init script to automatically start/stop the ACR/Summary and ACR/Detail daemon at system startup/shutdown.

Login as root and use the appropriate instructions:

- “Automating Start/Stop of the Product Daemon for Linux and Solaris” on page 9.
- “Automating Start/Stop of the Product Daemon for AIX” on page 10

Automating Start/Stop of the Product Daemon for Linux and Solaris

1. Create the init script `sumdet` in the `init.d` directory. Use the model script `installdir/sumdet/sv/bin/sumdet`, customizing it as needed.
2. Make the script executable:
3. Create symbolic links to the `sumdet` script in the appropriate run-level script directories, as follows:

Solaris:

```
# ln -s /etc/init.d/sumdet /etc/rc0.d/K12sumdet
# ln -s /etc/init.d/sumdet /etc/rc3.d/S97sumdet
```

Linux:

- a. Insert the following line near the top of the init script `sumdet`:

```
# chkconfig: 345 97 12
```

- b. Execute the following command:

```
# /sbin/chkconfig --add sumdet
```

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Post-Installation Instructions

This completes the procedure. See the information on the `init` command in your UNIX or Linux system documentation for more information on system startup and shutdown procedures.

Automating Start/Stop of the Product Daemon for AIX

Add the `sdstart` script to the `/etc/inittab` file:

```
# mkitab "acrspd:2:wait:/bin/su - $ACR_OWNER -c /$ACR_HOME/
bin/sdstart"
```

Where:

`$ACR_OWNER` is the identifier of the administrative account (e.g. `acrmgr`) for which you want to start the daemon.

`$ACR_HOME` is the home directory for `$ACR_OWNER`.

See the information on the `init` command in your UNIX or Linux system documentation for more information on system startup and shutdown procedures.

Modifying the Global Environment File, `acrprf`

ACR/Summary and ACR/Detail Server and the batch scripts require the use of an environment file, `acrprf`, to set the required variables for your site. `acrprf` was created in the administrative account's `$HOME/bin` directory and was copied to the `installdir/sumdet/sv/bin` directory. Any specific changes, as outlined below, should be made to the administrative account's `$HOME/bin/acrprf` file.

`acrprf` has four sections, which are detailed below:

- “ACR/Summary and ACR/Detail Section” on page 10
- “Modifying the ODBC Section” on page 11
- “Modifying the Oracle Section” on page 12
- “Modifying the DB2 Section” on page 13

Note: Additional variables and modifications may be added to the `acrprf` file according to other products' requirements (for example, ACR/Connector or Infogix Insight).

ACR/Summary and ACR/Detail Section

The ACR/Summary and ACR/Detail section does not require modification. All environment variables in this section are created when the Setup script has been successfully run.

Modifying the ODBC Section

Note: Verify with your UNIX or Linux database administrator that the UNIX or Linux data source for your ODBC session has been set up.

When using ODBC, required environment variables in the ODBC section should be uncommented and modified as needed.

- ODBCUID must be set to a User ID for the specific ODBC-compliant database.
- ODBCPWD must be set to the ODBCUID's password.
- (Optional) ODBCLOC, when set, must be set to the directory where the ODBC library, `libodbc`, was installed. It will be used in the setup of the environment variables for the shared libraries (that is, `LIBPATH`, `SHLIB_PATH`, and `LD_LIBRARY_PATH`). For example, `/usr/local/lib`.
- (Optional) ODBCINI, when set, must be set to the full pathname/ filename of the file with the ODBC information (usually `odbc.ini` or `.odbc.ini`).
If it is not set, ODBC will attempt to use the system `odbc.ini` and `odbcinst.ini` files.
- (Optional) ODBCHOME is for those sites that use ODBC to connect to DB2. This variable, when set, must be set using absolute path names to the directory where the system INI file (`odbcinst.ini`) was created.

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Post-Installation Instructions

- (Optional) Shared library path must be uncommented when ODBCLOC is set. Use LIBPATH for AIX and Linux and LD_LIBRARY_PATH for Solaris.

Note: UDXODBC.so Errors:

Error #173

Load error : file 'UDXODBC'

error code: 173, pc=0, call=1, seg=0

173 Called program file not found in drive/directory

Error #198

Load error : file 'UDXODBC.so'

error code: 198, pc=0, call=1, seg=0

198 Load failure

To resolve these errors, set the 1) ODBCLOC and 2) LIBPATH or LD_LIBRARY_PATH to the directory where the libodbc library is located, so that the ODBC drivers can be found. Also ensure that libodbc.so.1 is in this directory.

It may be helpful to do the following to get more information about an error involving UDXODBC.so:

1) Set your environment by sourcing the acrpfr file (for example, `./home/acrmgr/bin/acrpfr`).

2) Use `ldd` to check information about the shared object (e.g. `ldd UDXODBC.so`).

Modifying the Oracle Section

When using Oracle, each environment variable in the Oracle section should be uncommented and modified as needed.

- ORACLEUID must be set to a User ID of the Oracle database.
- ORACLEPWD must be set to the ORACLEUID's password.
- ORACLE_SID must be set to the system identifier for the Oracle database.
- ORACLE_HOME must be set to the absolute pathname of the directory where Oracle is installed.

- (Optional) TWO_TASK is a UNIX or Linux environment variable that can be set to a default TNS connect string. For example, you can issue the following command at the system prompt:

```
% setenv TWO_TASK test_db.world
```

When you invoke a tool such as SQL*Plus, you would only need to type:

```
% sqlplus scott/tiger
```

in order to be connected to the TNS address of “test_db.world.” Some users prefer this to typing:

```
% sqlplus scott/tiger@test_db.world
```

To use TWO_TASK, set this variable to the TNS alias for the remote instances.

- Shared library path must be uncommented. Use LIBPATH for AIX and Linux, or LD_LIBRARY_PATH for Solaris.

Modifying the DB2 Section

When using DB2, the environment variable in the DB2 section should be uncommented and modified as needed.

DB2INSTANCE must be set to the name of your DB2 instance.

Make Pre-Release 3.4 Scripts Compatible

If you use any ACR/Summary or ACR/Detail batch scripts from Release 3.3 or before, those scripts need to access the new acrprf environment file instead of the old acrdprf and acrsprf files. There are multiple ways of doing this, but we suggest that you create a symbolic link for acrdprf and acrsprf that points to the administrative account’s \$HOME/bin/acrprf file.

Make Pre-Release 3.4 Databases Available

If you use any ACR/Summary or ACR/Detail databases from Release 3.3 or before and you intend to access them through the Client or ACR/Workbench, the database files must allow the administrative account to read and write to them. Because each Client or Workbench user will have a user directory created in the administrative account’s \$HOME directory, one approach is to copy the database files to that directory and change their ownership to the administrative account’s.

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Increase the Maximum File Size (Optional)

ACR/Summary or ACR/Detail ships with environment variable FILEMAXSIZE=4. This setting will be appropriate for users who always use a file input size of 4GB or less. If you use input files greater than 4GB, you will have to override this value by setting FILEMAXSIZE=8 (no limit) in the extfh configuration file.

To override the environment variable FILEMAXSIZE, create the file \$COBDIR/etc/extfh.cfg with the following contents:

```
[XFH-DEFAULT]
FILEMAXSIZE=8
```

License ACR/Summary or ACR/Detail

See Chapter 4, “Licensing Infogix Products.”

Maintaining Micro Focus Licenses

If you ever need to administer Micro Focus Application Server licenses after the setup script has run, run AppTrack via the administration script

```
installdir/license/run/mfapptrk.sh
```

and follow the prompts.

Installing the Client

This chapter provides the system requirements and instructions for installing ACR/Summary Client or ACR/Detail Client on a Windows-based machine. The client provides a graphical interface for UNIX or Linux processing.

This chapter contains the following sections:

- “Before You Begin” on page 15
- “System Requirements for the Client” on page 16
- “Steps for Installing the Client” on page 16

Before You Begin

Before you begin installation, review the following information:

Verify that the system where you plan to install the client meets the requirements described in the next section. Verify that you have the installation CD for the client you are installing:

- ACR/Summary Client
- ACR/Detail Client

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System Requirements for the Client

System Requirements for the Client

Below are the minimum system requirements for an ACR/Summary or ACR/Detail client:

Category	Requirement
Hardware and Operating System	IBM or compatible machine with Windows Vista, Windows 7, or Windows 2008
Memory	At least 100 MB of Random Access Memory (RAM)
Disk Space	A hard drive with at least 10 MB of free space
Drive	CD-ROM
Network Communication	Access to a network using TCP/IP protocol

Steps for Installing the Client

You will have a separate CD for each product. The process is the same for installing an ACR/Summary Client and ACR/Detail Client, so select either of the CDs and complete the following steps.

1. Insert the installation CD into the CD-ROM drive on your PC.
2. The installation program usually starts automatically. If it does not, select Run from the Start menu and run the setup.exe program located on the installation CD.
3. The installation wizard will prompt you through the process. When the process completes, ACR/Summary Client or ACR/Detail Client will be installed in the Infogix program group, unless you specified a different installation directory.
4. If you purchased both clients, repeat the installation process for the remaining product.

Licensing Infogix Products

This chapter discusses tasks related to licensing. This information pertains to both for UNIX and Linux. The information is divided into the following sections:

- “Control File Update” on page 17. This section tells you how to establish and update your licensing.
- “Generating the TM Aggregate Transaction Report” on page 20. This section applies only to a limited number of customers who have TM licensing.
- “Maintaining AppTrack Licenses” on page 21. This section provides instructions for maintaining your AppTrack licensing.

Note: If you are upgrading from a release previous to Release 4.0, in addition to updating your licensing, you must follow the instructions for your product in Chapter 5, “Upgrading from a Pre-Release 4.0 Release” on page 23.

Control File Update

When to Update the Control File

The Control File controls product access in accordance with the terms of your license. There are several situations when you need to perform this update. The most common include:

- When you install ACR/Summary or ACR/Detail for the first time.
- When the terms of your license have changed.
- When you create a new control file for any reason.

Note: If you must create a new control file when upgrading from a previous release, you will be instructed to do so in the installation guide.

- When your license for ACR/Summary or ACR/Detail expires. If you begin receiving warning or error messages in your `SYSOUT` listing, you should follow the steps in this procedure.
- When you want to run the product(s) on a machine whose host ID is not currently included in your license.


```

releasenumber  TRANSACTIONAL MEASUREMENT REPORT  COPYRIGHT INFOGIX, INC.
DATE: 03135                                         PAGE: 01
TIME: 15:20                                         REPORT:  UNI10PRA

CUSTOMER:  INFOGIX, INCORPORATED
PAGE:060  WAIT:0900  RES:Y  I-RET:0000  W-RET:0000  E-RET:4000  UPDATE:002

-----LICENSE-----
PRODUCT TM  IND  VALUE  GRACE  RESET  VALUE
U/SUM  RULD EXEC  5,000  40  03/135  5,060
-----VIOLATION PER LICENSE INTERVAL-----
FIRST  LAST  VALUE  COUNT
03/135 03/135  5,050  3
-----VIOLATION PER CHANGE OF LICENSE VALUE-----
FIRST  LAST  MAXIMUM VALUE  TOTAL
03/010 03/135  5,100  50

-----LICENSE-----
PRODUCT TM  IND  VALUE  GRACE  RESET  VALUE
U/SUM  RULM EXEC  150,000  40  03/130  10,000
-----VIOLATION PER LICENSE INTERVAL-----
FIRST  LAST  VALUE  COUNT
00/000 00/000  0  0
-----VIOLATION PER CHANGE OF LICENSE VALUE-----
FIRST  LAST  MAXIMUM VALUE  TOTAL
00/000 00/000  0  0

-----LICENSE-----
PRODUCT TM  IND  VALUE  GRACE  RESET  VALUE
U/SUM  RECD EXEC  100(IN 000S)  20  03/135  90,000
-----VIOLATION PER LICENSE INTERVAL-----
FIRST  LAST  VALUE  COUNT
00/000 00/000  0  0
-----VIOLATION PER CHANGE OF LICENSE VALUE-----
FIRST  LAST  MAXIMUM VALUE  TOTAL
00/000 00/000  0  0
(Actual report may show information for additional TM types and additional products.)

```

3. Request your control cards and password: Using the information in “Contacting Customer Support” on page 6, do the following:
 - Call Customer Support to request the appropriate control cards and password based on your license agreement. Indicate if there are any special considerations. For example, let them know if you are running a disaster recovery test.
 - E-mail or FAX the reports generated in the previous step to Customer Support. Customer Support will FAX or e-mail you a set of text input records which consist of your control card(s) and password.

Performing the Update

1. Create a file called `update.txt` in the `license/run` directory and paste in the control card(s) and password from the e-mail or enter them from the FAX.
2. Save the file and run the `unicf50` script with the following command:

```
unicf50 update.txt
```

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Generating the TM Aggregate Transaction Report

3. Verify the update by reviewing the Control File Update report (UNIFAX.rpt) that is output by the `unicf50` script. If the update completed successfully, the report should contain the message UPDATE COMPLETE. If the report shows that any of the control cards failed, print and FAX or e-mail the report to Customer Support for assistance.

Following is an example of the report showing a successful update.

```
CHANGE ID: 111111222202340017
UNICF: /home/infogix/license/files/ACRCNTL.dat
ACCEPTED USUMJOBVDV20000 00000000000000
ACCEPTED USUMINPDV20000 00000000000000
ACCEPTED USUMRECDV20000 00000000000000
ACCEPTED UDRSJOBVDV20000 00000000000000
ACCEPTED UDRSINPDV20000 00000000000000
ACCEPTED UDRSRECDV20000 00000000000000
ACCEPTED PW0000*****000000
*****REQUEST PHASE COMPLETE*****
CHANGED USUMJOBVDV20000 00000000000000
CHANGED USUMINPDV20000 00000000000000
CHANGED USUMRECDV20000 00000000000000
CHANGED UDRSJOBVDV20000 00000000000000
CHANGED UDRSINPDV20000 00000000000000
CHANGED UDRSRECDV20000 00000000000000
UPDATE COMPLETE
```

Generating the TM Aggregate Transaction Report

The TM Aggregate Transaction report is an encrypted report that you run at the request of a member of the Customer Development and/or Market Development team. The report prints aggregate counts for each transaction type that is being tracked (jobs, input sources, records, and/or rules). After you e-mail the report to the requestor at Infogix, it is decrypted and used for the following purposes:

- To aid in analyzing your transaction usage.
- To implement actual transaction usage licensing where you are billed on a “pay as you go” basis.

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Maintaining AppTrack Licenses

or ACR/Summary is installed) and execute `mfapptrk.sh`. You will be presented with the following menu through which you can perform all administration functions:

```
Application Server License Administration System - AppTrack
-----
1.  License List
2.  License Summary
3.  License Install
4.  License Uninstall
5.  Change/Set Password
6.  Reinitialize Licensing
7.  Current Users
9.  Quit
Enter the Menu Selection
```

Choices 1, 2, and 7 will provide information about your installed licenses and their use.

Choices 3 and 4 will allow you to add or delete licenses.

Choice 5 will allow you to maintain a password on this Administration System.

Choice 6 will refresh the AppTrack license database.

Choice 9 will let you exit the utility.

Upgrading from a Pre-Release 4.0 Release

This chapter provides instructions required for upgrading ACR/Summary and ACR/Detail for UNIX or Linux from a release previous to Release 4.0.

Release 4.0 provides extended internal items, which increase the maximum extractable length for numeric data from 15 to 30 digits, and for text data from 8 to 80 characters. The upgrade procedures described here expand your definition and history databases to make room for these new items.

ACR/Summary and ACR/Detail each have two expansion utilities for this purpose: one for expanding the history database and another for expanding the definition database. The utilities and sample scripts for running them are included with the current release of ACR/Summary and ACR/Detail.

To run the expansion utilities, you need to know how to edit and execute scripts.

Note: These upgrade procedures should be followed after you have installed the new release and updated your license based on the instructions in the preceding chapters.

This document contains the following sections:

- “Upgrading ACR/Summary for UNIX or Linux” on page 24
- “Upgrading ACR/Detail for UNIX or Linux” on page 27

Upgrading ACR/Summary for UNIX or Linux

Expanding the History Database for ACR/Summary

The ACR/Summary History Expansion Utility (sumexphf.sh) copies and expands pre-release 4.0 history data into a history database for Release 4.0 or higher.

This utility produces a display that lists any system output messages.

The steps for editing and running sumexphf.sh are as follows:

1. Make a copy of the sumexphf.sh file for modification. Do not modify the original template.

Warning: It is very important that you perform the expansion on a copy of sumexphf.sh, and keep the original as a backup.

The .sh file will be in [INSTALLDIR]/sumdet/scripts or [ACRMGR]/scripts.

2. Open the copy you made of sumexphf.sh file and perform the following edits:

Warning: You MUST make these edits before running the .sh file.

- a. Edit the ACRWRK environment variable. Replace ?????? with the full pathname of the directory where the ACR/Summary history database is located.

```
#
-----
# Set the default working directory:
#   e.g. ACRWRK=/home/userid
#-----
ACRWRK=??????                ; export ACRWRK
```

- b. In the required files section, define the following files that are input and output of the utility:

```
#-----
# Define required files
#-----
dd_UNIHFOLD=$ACRWRK/????????? ; export dd_UNIHFOLD
#pre r4.0 history database
dd_UNIHF=$ACRWRK/?????????    ; export dd_UNIHF
#history database
```

dd_UNIHFOLD: Replace ?????? with the name of the pre-Release 4.0 ACR/Summary history database file that contains the history data you want to copy/expand.

dd_UNIHF: Replace ?????? with the path and name of the new ACR/Summary history database file.

3. Save your changes and run sumexphf.sh.
4. Check the display for any error messages.

Expanding the Definition Database for ACR/Summary

The ACR/Summary Definition Expansion Utility (sumexpdf.sh) copies and expands pre-release 4.0 definition data into a definition database for Release 4.0 or higher.

This utility produces a display that lists any system output messages.

The steps for editing and running sumexpdf.sh are as follows:

1. Make a copy of the sumexpdf.sh file for modification. Do not modify the original template.

Warning: It is very important that you perform the expansion on a copy of sumexpdf.sh, and keep the original as a backup.

The .sh file will be in [INSTALLDIR]/sumdet/scripts or [ACRMGR]/scripts.

2. Open the copy you made of sumexpdf.sh and make the following edits:

Warning: You MUST make these edits before running the .sh file.

- a. Edit the ACRWRK environment variable. Replace ?????? with the full pathname of the directory where the ACR/Summary definition database is located.

```
#-----
# Set the default working directory:
#   e.g. ACRWRK=/home/userid
#-----
ACRWRK=??????? ; export ACRWRK
```

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Upgrading ACR/Summary for UNIX or Linux

- b. In the required files section, define the following files that are input and output of the utility:

```
#-----  
# Define required files  
#-----  
dd_UNIDFOLD=$ACRWRK/????????? ; export dd_UNIDFOLD  
#pre r4.0 definition database  
dd_UNIDF=$ACRWRK/????????? ; export dd_UNIDF  
#definition database
```

dd_UNIDFOLD: Replace ?????? with the name of the pre-Release 4.0 ACR/Summary definition database file that contains the definition data you want to copy/expand.

dd_UNIDF: Replace ?????? with the path and name of the new ACR/Summary definition database file.

3. Save your changes and run `sumexpdf.sh`.
4. Check the display for any error messages.

Optional: Update Job Output Options

If you are using ACR/Workbench or ACR/Summary Client, you may want to change the default for printing extended internal items as described below.

For existing (pre-release 4.0) jobs, the default for the Extended Internal Items option in the Job Output Options dialog box is Do not print. This means that the Extended Internal Items section will not be included in the Control Report for those jobs.

(For new jobs created after the upgrade to Release 4.0 or higher, the default for this option will be Print.)

If your site wants the Extended Internal Items section to print in the Control Report for one or more existing jobs that you plan to use after the upgrade, you need to make a change to the job output options for each of those jobs as follows:

1. Open ACR/Summary.
2. Open the job.
3. Select Print Control Reports.
4. Change the Extended Internal Items option to Print.

Upgrading ACR/Detail for UNIX or Linux

Expanding the History Database for ACR/Detail

The ACR/Detail History Expansion Utility (detexphf.sh) copies and expands pre-release 4.0 history data into a history database for Release 4.0 or higher.

This utility produces a display that lists any system output messages.

The steps for editing and running detexphf.sh are as follows:

1. Make a copy of the detexphf.sh file for modification. Do not modify the original template.

Warning: It is very important that you perform the expansion on a copy of detexphf.sh, and keep the original as a backup.

The .sh file will be in [INSTALLDIR]/sumdet/scripts or [ACRMGR]/scripts.

2. Open the copy you made of detexphf.sh file and make the following edits:

Warning: You MUST make these edits before running the .sh file.

- a. Edit the ACRWRK environment variable. Replace ????? with the full pathname of the directory where the ACR/Detail history database is located.

```
#-----
# Set the default working directory:
#   e.g. ACRWRK=/home/userid
#-----
ACRWRK=??????                ; export ACRWRK
```

- b. In the required files section, define the following files that are input and output of the utility:

```
#-----
# Define required files
#-----
dd_UNIHFOLD=$ACRWRK/????????? ; export dd_UNIHFOLD
#pre r4.0 history database
dd_UNIHF=$ACRWRK/???????????  ; export dd_UNIHF
#history database
```

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Upgrading ACR/Detail for UNIX or Linux

dd_UNIHFOLD: Replace ?????? with the name of the pre-Release 4.0 ACR/Detail history database file that contains the history data you want to copy/expand.

dd_UNIHF: Replace ?????? with the path and name of the new ACR/Detail history database file.

3. Save your changes and run `detexphf.sh`.
4. Check the display for any error messages.

Expanding the Definition Database for ACR/Detail

The ACR/Detail Definition Expansion Utility (`detexpdf.sh`) copies and expands pre-release 4.0 definition data into a definition database for Release 4.0 or higher.

This utility produces a display that lists any system output messages.

The steps for editing and running `detexpdf.sh` are as follows:

1. Make a copy of the `detexpdf.sh` file for modification. Do not modify the original template.

Warning: It is very important that you perform the expansion on a copy of `detexpdf.sh`, and keep the original as a backup.

The `.sh` file will be in `[INSTALLDIR]/sumdet/scripts` or `[ACRMGR]/scripts`.

2. Open the copy you made of `detexpdf.sh` file and perform the following edits:

Warning: You MUST make these edits before running the `.sh` file.

- a. Edit the `ACRWRK` environment variable. Replace ?????? with the full pathname of the directory where the ACR/Detail history database is located.

```
#-----  
# Set the default working directory:  
#   e.g. ACRWRK=/home/userid  
#-----  
ACRWRK=??????? ; export ACRWRK
```

- b. In the required files section, define the following files that are input and output of the utility:

```
#-----  
# Define required files  
#-----  
dd_UNIDFOLD=$ACRWRK/????????? ; export dd_UNIDFOLD  
#pre r4.0 definition database  
dd_UNIDF=$ACRWRK/????????? ; export dd_UNIDF  
#definition database
```

dd_UNIDFOLD: Replace ?????? with the name of the pre-Release 4.0 ACR/Detail definition database file that contains the definition data you want to copy/expand.

dd_UNIDF: Replace ?????? with the path and name of the new ACR/Detail definition database file.

3. Save your changes and run `detexpdf.sh`.
4. Check the display for any error messages.

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Upgrading ACR/Detail for UNIX or Linux