



**ACR/Summary®**  
**ACR/Detail®**  
**ACR/Connector™**

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**Release Notes**

Release 4.3

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## OVERVIEW

This document provides an overview of enhancements and modifications for users of ACR/Summary, ACR/Detail, and ACR/Connector who are upgrading to Release 4.3.

## ENHANCEMENTS FOR ACR/SUMMARY AND ACR/DETAIL

### Direct Extraction from Delimited Files

A new input source indicator allows you to extract values directly from delimited data files. The new feature allows you to specify multiple delimiters, including the tab character, for keys, items, and translation tables.

Previously, ACR/Detail allowed extraction of delimited data with user program UUPDLIM. The new direct access capability will make extraction of delimited data easier by allowing you to use the mark-and-capture feature for extraction.

**Note:** On Windows, for tab-delimited files, the data shows in the Extract Window in the columnar (tabbed) view. This prevents automatic calculation of the number for the delimited field. When using tab-delimiters, please manually count the field number and enter it appropriately.

## New Capabilities for Calculated Items and History Items

### CREATE A CALCULATED ITEM THAT ADDS TO OR SUBTRACTS FROM THE JOB'S CYCLE NUMBER

Cycle numbers can now be included on the right side of calculations using the new @CYCLE function. If you assign a date format to the cycle number, it will be converted to a date count before the calculation. If you assign the format As Is, the cycle number will be used as is, with no conversion before the calculation.

This new feature will allow you to easily verify that cycles are run in the correct order without having to keep an extra copy of the cycle number as an internal item.

### INCLUDE CYCLE NUMBERS, JOB RUN DATES, AND JOB RUN TIMES FROM PREVIOUS BALANCING OR RECONCILIATION RUNS IN YOUR RULES

Currently, when a job stores history, it stores the job's cycle number, run date, and run time along with its internal and extended internal items. History items have been enhanced to allow you to use any or all of this information in future balancing or reconciliation processing.

You can use any or all of this information directly defined as a history items. To simplify finding these items in your file, a history item can now be one of 5 item types: internal item, extended internal item, job run date, job run type, or cycle number.

This new feature allows you to validate the run time of your controls and combines with the cycle enhancement to allow you to easily validate process flows.

## Specify How Numbers Containing Decimals Will Be Processed

A new Extract Decimal Indicator allows you to retain the decimal location from the input source when extracting numeric values. This feature is useful when extracting numbers that contain mixed decimals. If you set the indicator to Y, the decimal location will be retained whether you store the value in an internal item, in an extended internal item or in an extraction variable.

The Print Decimals field in the destination panel will continue to control the number of decimal places assigned to the value after extraction. The extracted number will be padded or truncated to match the entry in this field.

The following table shows several source values along with the corresponding values that will be stored in the destination field depending on how you set the Extract Decimal Indicator. In this example, the number of decimals specified on the destination panel is 2.

Source Value	Extract Decimal Indicator = Y	Extract Decimal Indicator = N
	Stored Value	Stored Value
123.0	123.00 (pad)	12.30
123	123.00 (pad)	1.23
123.00	123.00	123.00
123.00125	123.00 (truncate)	123001.25

**Note regarding extraction variables that store floating point values resulting from ODBC extraction:**

The warning message:

```
#UDX073W: EXTRACTION VARIABLE item no. NO. OF DECIMALS IS BLANK;
THE PRINT DECIMALS FROM THE INTERNAL ITEM/EXTENDED INTERNAL
ITEM WITH THE SAME ITEM NO. WILL BE USED
```

will be generated when you run a job where the following are true: 1) The indicated extraction variable was defined before Release 4.3 and stores a floating point value obtained using ODBC extraction, and 2) the Number of Decimals field for the indicated extraction variable is blank.

Before R4.3, extraction variables could not store decimals, so the number of decimals stored in an extraction variable was set automatically to match the number specified in the Print Decimals field for the internal or extended internal item having the same item number.

Because extraction variables for R4.3 and higher can store decimals, we suggest you specify the number of decimal places to be used in the extraction variable's Number of Decimals field, which was added for R4.3. If you do not do this, the following processing will occur every time you run the job: 1) the number of decimals stored in the extraction variable will be set automatically, just as they were previous to R4.3, which means that the value stored in the extraction variable may not reflect the decimal location in the source, and 2) the warning message will continue to be generated.

## Edit Multiple Lines of Code in the Free-Form Report on z/OS

When editing a Free-Form Report in the Report Codes Update panel on z/OS, you can now change multiple lines of code at once, specifying different kinds of edits (insertions, deletions, replacements) at the same time. The system makes all of your changes after you press Enter.

**NOTE:** The message to confirm a deletion is no longer generated.

## DB2 Freeform SQL Is Now Supported in the Expert File Editor

The Expert File Editor, available on z/OS, now supports the DB2 Freeform Editor, which allows you to use a tested, valid SQL query to extract data from DB2 tables. To enter your query, you simply paste the SELECT, FROM, and WHERE clauses into the appropriate panels.

## Page Headers for User Reports Can Contain Multiple Types of Information

Custom page headers have been enhanced for both ACR/Summary and ACR/Detail, as follows:

- For ACR/Detail, previously your page header could show only the value of one item corresponding to the keys on the page. Now you can create a one-line page header containing a specified literal and/or the values of multiple items corresponding to the current keys.
- For ACR/Summary, in addition to page header/trailer lines, you can now create a one-line header that contains the value of a literal and/or values of one or more items defined for the job.

## Encrypt Database Password and User ID

To increase the security of your databases, the ODBC and Oracle user IDs and passwords you enter in the product interfaces will now be encrypted. The encrypted values will be stored in file definition batch cards, eliminating the need for entering passwords in scripts or in environment variables.

The encrypted user ID and password will be used for database connections during batch balancing/reconciliation. Passwords currently in scripts or environment variables can be removed or can be used as an override to the encrypted value in the rules.

## ENHANCEMENTS FOR ACR/SUMMARY

### User Program Extraction in ACR/Summary

ACR/Detail's ability to employ user programs to extract from otherwise unsupported file organization types has now been extended to ACR/Summary. This means you can now use any of your own user access programs or the following user programs that were formerly available only for ACR/Detail:

- UUPDLIM. This program can be used to extract data from files containing records of variable length fields, separated by one or more separator characters or delimiters. (An alternative is to use the new indicator for delimited data, as explained in [Direct Extraction from Delimited Files](#).)
- UUPXML. This program can be used to extract data from XML files. Values can be extracted based on tag names or values, attribute names or values, or sequence in the XML.
- UUPEDIF. This program can be used to extract data from EDI files (in X12 format).
- UUPVREC. This program can be used to extract data from variable length records consisting of a fixed "header" area and a variable number of "line" areas.
- UUPFBIO. This program can be used to access mainframe EBCDIC fixed block input files on Windows, UNIX, and Linux.
- UUPVBIO. This program can be used to access mainframe EBCDIC variable block input files on Windows, UNIX, and Linux.

The Infogix user programs are described in the newly-renamed *ACR/Summary and ACR/Detail User Program Guide*.

### Ability to Exclude Records in Access Mode 5

Currently, when using access mode 5 for extraction using total, tally, or hash records, you can set up the definitions to include all records or to include only records matching a key value you specify.

You now have the additional alternative of excluding records that match the key value criteria you enter. This would allow you, for example, to exclude header or trailer records when hashing a file without first performing a separate step to removing the records you don't want to be hashed.



## All Counts and Amounts Extracted from RDBMS Files to Extraction Variables that Pass the Selection Criteria Will Now Be Accumulated

Previously, when counts and amounts were extracted from either relational database (RDBMS) or non-RDBMS files using standard SQL and accumulated and stored in an extraction variable, only the first record meeting the selection criteria is returned and stored in the target variable. Now, when extracting from RDBMS files, all count and amount values that meet the selection criteria will be accumulated and stored in the extraction variable. For RDBMS extraction, this eliminates the discrepancy between the accumulated results stored in extraction variables and the accumulated results stored in internal items. If you have rules that extract from RDBMS files into extraction variables, the results may now be different.

## ENHANCEMENTS FOR ACR/DETAIL

### Remove Unused Keys from the Dynamic Translation Database

A new utility allows you to reorganize the information from the existing dynamic translation database into a new translation database, copying only used key numbers and thus removing any unused key numbers.

Removing obsolete keys with this utility would be appropriate if you have a large number of unused items in the dynamic translation database. The keys are not automatically rolled off of the file in the way that history keys are rolled off of the history database.

## ENHANCEMENTS FOR ACR/CONNECTOR

ACR/Connector has been enhanced to support the current releases of ACR/Summary and ACR/Detail on z/OS, Windows, and UNIX. This includes the ability to retrieve cycle numbers, job run dates, and job run times from previous balancing or reconciliation runs across platforms.

The *ACR/Connector Installation and User Guide* has been updated with instructions for upgrading the IARQR function table file for the converted node.

## ACR/SUMMARY AND ACR/DETAIL SYSTEM REQUIREMENTS

### Requirements for z/OS

Category	Requirement
Operating System	IBM z/OS 1.9 or compatible
ISPF Profile	Version 5.2 or compatible ISPF profiles are not backward compatible when upgrading from releases of ACR/Summary and ACR/Detail older than 3.0.
TSO Region Size	*6144K (7168K suggested) plus space required by LE runtime libraries.
COBOL	Enterprise COBOL 3.3 or any compatible COBOL is required if you wish to compile user exits.

\*Additional region size will be needed to process large files in the extract window, particularly for delimited data in ACR/Summary access modes 1-4.

## Requirements for Windows

### ACR/Summary and ACR/Detail Server

Category	Requirement
Hardware and Operating System	IBM or compatible machine with Microsoft Windows Server 2003, Windows XP, Windows 7, or Windows Server 2008
Memory	At least 100 MB of Random Access Memory (RAM)
Disk Space	A hard drive with at least 50 MB of free space
Drive	CD-ROM
Network Communication	TCP/IP protocol

### ACR/Workbench and Clients

Category	Requirement
Hardware and Operating System	IBM or compatible machine with Microsoft Windows XP, Windows Vista, Windows 7, or Windows 2008
Memory	At least 100 MB of Random Access Memory (RAM)
Disk Space	For ACR/Workbench: A hard drive with at least 30 MB of free space For Clients: A hard drive with at least 10 MB of free space
Drive	CD-ROM
Network Communications	Access to a network using TCP/IP protocol

## Requirements for UNIX and Linux

Vendor/Machine	Operating System	Approximate Installation Size
HP 9000 PA-RISC	HP-UX 11.i	83 MB
IBM RS/6000	AIX 5.3	56 MB
Sun Sparc	Sun Fire 5.9	69 MB
Linux 64-bit	Red Hat Linux 5.3	180MB

## ACR/CONNECTOR SYSTEM REQUIREMENTS

### Requirements for z/OS

The following requirements are specifically for ACR/Connector. The space requirements are in addition to those required for ACR/Summary and ACR/Detail. See also [ACR/Summary and ACR/Detail System Requirements](#).

Category	Requirement																
Space Requirements	<table> <tr> <td>PROCLIB</td> <td>2 Tracks</td> </tr> <tr> <td>LOADLIB</td> <td>85 Tracks</td> </tr> <tr> <td>DATALIB</td> <td>1 Tracks</td> </tr> <tr> <td>COPYLIB</td> <td>2 Tracks</td> </tr> <tr> <td>SRCELIB.MQS</td> <td>20 Tracks</td> </tr> <tr> <td>LOADLIB.MQS</td> <td>10 Tracks</td> </tr> <tr> <td>LOADLIB.TCP</td> <td>5 Tracks</td> </tr> <tr> <td>IIAENV</td> <td>1 Track</td> </tr> </table>	PROCLIB	2 Tracks	LOADLIB	85 Tracks	DATALIB	1 Tracks	COPYLIB	2 Tracks	SRCELIB.MQS	20 Tracks	LOADLIB.MQS	10 Tracks	LOADLIB.TCP	5 Tracks	IIAENV	1 Track
PROCLIB	2 Tracks																
LOADLIB	85 Tracks																
DATALIB	1 Tracks																
COPYLIB	2 Tracks																
SRCELIB.MQS	20 Tracks																
LOADLIB.MQS	10 Tracks																
LOADLIB.TCP	5 Tracks																
IIAENV	1 Track																
COBOL	Enterprise COBOL 3.3 or any compatible COBOL is required if you wish to write your own communication modules for ACR/Connector.																
Network Communications	TCP/IP or MQ Series. TCP/IP is recommended.																

## Requirements for Windows

The following requirements are specifically for ACR/Connector Server Node/Controller Administrator. The memory and space requirements are in addition to those required for ACR/Summary and ACR/Detail. See also [ACR/Summary and ACR/Detail System Requirements](#).

Newer versions may also be supported. Contact Customer Support for additional information.

Category	Requirement
Hardware and operating system	IBM or compatible machine with Microsoft Windows Server 2003, Windows XP, Windows 7, or Windows Server 2008
Memory	32 MB of Random Access Memory (RAM)
Disk space	A hard drive with at least 40 MB of free space
Drive	CD-ROM
Network Communications	TCP/IP protocol

The Client Administrator can be installed on any machine where an ACR/Summary and/or ACR/Detail for Windows client resides, providing the machine has TCP/IP middleware, and/or on any location on the network that is accessible to the clients that need to access its ACRXPCFG.INI file.

## Requirements for UNIX

The following requirements are specifically for ACR/Connector. The space requirements are in addition to those required for ACR/Summary and ACR/Detail. See also [ACR/Summary and ACR/Detail System Requirements](#).

Newer versions may also be supported. Contact Customer Support for additional information.

Vendor/Machine	Operating System	Approximate Installation Size
HP 9000 PA-RISC	HP-UX 11.i	5 MB
IBM RS/6000	AIX 5.3	5 MB
Sun Sparc	Sun Fire 5.9	5 MB

## UPGRADING ACR/SUMMARY AND ACR/DETAIL FROM A PREVIOUS RELEASE

### Instructions for Upgrades

When upgrading to the current release, please follow the instructions in the installation guide shipped with the installation media.

### Do Not Reinstall Patches

This release includes all patches on previous releases. If you have installed patches in the past, install this release, but do not reinstall the patches.

## MAINTENANCE FIXES

The following maintenance fixes have been completed for this release.

ACR/S	ACR/D	JIRA #	Corrections	z/OS	Windows	UNIX
	X	3459	An extraneous Y was being generated for the J0 sequence 9 batch card. It is now a space.		X	
X		3513	The Rule Ignored message was not being displayed with a rule that triggered skip processing. This message is now shown on the Control Report.	X	X	X
	X	3541	The word indicates was misspelled on a help panel for the Expert File Editor. It is now correctly spelled.	X		
X		3567	Spool monitor was capturing reports to the tenth of a second. Now it adds job name so that the captures remain unique even at the hundredth of a second level.	X		
X		3608	List Definitions with modeling jobs now prints items from base jobs with the same name.	X		
X	X	3617	Select statements with additional values copied In the Extract Window did not copy the additional values records. The copy now moves all additional values.	X		

ACR/S	ACR/D	JIRA #	Corrections	z/OS	Windows	UNIX
	X	3625	The Return Code entry length has now been restricted to 4 digits in the ACR/Workbench.		X	
X		3693	Utilities such as List Definitions that issue the #USY988E message now consistently produce a 16 return code when run with incorrect files.	X		
X		3701	History Extract used in Program Interface mode erroneously issued a #UTL073. A generic terminator of spaces is now allowed.	X		
X		3710	Calculated Items were being created in old decimal format with PF8 and PF6. They are now created with smart decimals.	X		
	X	3751	When you clicked the Set Return Code dialog box with a UNIX configuration, the GUI abended. The panel now opens correctly.			X
X		3771	The Cross Reference Report now prints correctly when the right side of a rule contains only a literal.	X		
	X	3772	Multi-Level jobs complete as expected when they are run with the wrong input source and a UNIWRK1 file with a blksize=0 statement is in the JCL.	X		



ACR/S	ACR/D	JIRA #	Corrections	z/OS	Windows	UNIX
	X	3776	The User Report will once again print the cycle in the page header even when there are no reconciliation keys to print on the report.	X	X	X

## CONTACTING CUSTOMER SUPPORT

If you need assistance, contact Infogix Customer Support:

U.S. and Canada: Call us at (630) 505-1890 or send a fax to (630) 505-1883. You can also send e-mail to [support@infogix.com](mailto:support@infogix.com).

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