

ACR/Summary[®] and ACR/Detail[®]

Release Notes | Release 4.5



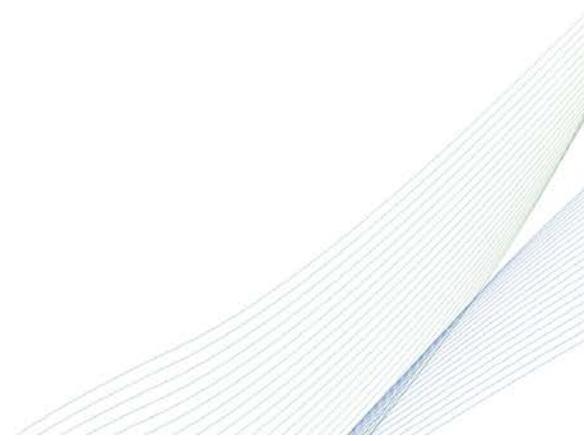
Home Office

1240 East Diehl Road, Suite 400

Naperville, IL 60563

Tel: + 1.630.505.1800

www.infogix.com





Infogix, the Infogix checkmark logo, Infogix Assure, Infogix Insight, ACR, ACR/Detail, ACR/Summary, ACR/Workbench, ACR/Connector, ACR/Instream, ACR/File, Infogix ER, Infogix DTM, Infogix Perceive, Infogix Nexix, Information Integrity, and Information With Confidence are registered trademarks of Infogix, Inc.

Infogix Controls and The Information Integrity Experts are trademarks of Infogix, Inc.

Any other trademarks or registered trademarks are the property of their respective owners.

Visit our Web site at www.infogix.com

Publication Number: 2166

July 16, 2013

Copyright 2013 Infogix, Inc. All rights reserved.

Confidential—Limited distribution to authorized persons only, pursuant to the terms of Infogix, Inc. (FKA Unitech Systems, Inc.) license agreement. This document is protected as an unpublished work and constitutes a trade secret of Infogix, Inc.

This document and the information contained herein are the property of Infogix, Inc. Reproduction or use in whole or in part of this document and the information contained herein by anyone without prior written consent of Infogix, Inc. is prohibited.



Contents

Overview	4
ACR/Summary Enhancements	4
ACR/Detail Enhancements	4
ACR/Summary and ACR/Detail Enhancements.....	6
Other Enhancements.....	7
Updates to ACR/Summary on IBM i	9
Updates to ACR/Detail on IBM i	9
Updates to ACR/Summary and ACR/Detail on IBM i.....	11
ACR/Summary and ACR/Detail System Requirements.....	13
Upgrading ACR/Summary and ACR/Detail from a Previous Release	15
Maintenance Fixes.....	15
Contacting Customer Support	18



OVERVIEW

This document provides an overview of enhancements and modifications for users of ACR/Summary® and ACR/Detail® who are upgrading to Release 4.5.

ACR/SUMMARY ENHANCEMENTS

The following sections describe the major enhancements for ACR/Summary.

999 History Items

This enhancement permits the retrieval of up to 999 different items from the history database for a single job ID. This includes the use of any of the 999 items within calculated items, balancing rules, and messages.

You no longer have to use a qualifier to report on totals from a variety of jobs within the same report, thus facilitating comparisons between values.

A new numbering system has been implemented in the batch definitions for history items. The definition database stores the number in two fields, item number and item type.

This feature allows you to include the results from numerous controls on a single report for a comprehensive view of your application controls.

SMS Classes for Archive Utility

The Archive Utility was modified to allow the use of SMS classes. On the Archive History panel, you can enter any combination of the **Managementclass**, **Storageclass**, and **Dataclass** fields that is valid at your site.

You can use the archive feature to store older histories to fulfill retention requirements.

ACR/DETAIL ENHANCEMENTS

The following sections describe the major enhancements for ACR/Detail.

Job Progress Messages

Users can monitor the progress of a job by choosing to display informational messages in the System Messages Report (SYSOUT). On IBM i, the messages are displayed in the Job Log.



This option is available under basic job information. For batch processing, the option to display job progress messages can be overridden in the JCL.

You can use this feature to make sure that a job runs as expected, or to implement performance improvements for long-running jobs.

Partial Driver Key

Driver file processing includes data based on the presence or absence of matching keys. You can now specify a partial key length to match the data. The partial key length can be used to include or exclude data from subsequent files.

This feature adds a new work file, UNIWRK5, which is a driver key work file. If you are upgrading from a previous release, you will need to add this work file to the reconciliation JCL to use this feature.

You can use this feature to limit the data processed within a file to specific areas of business. For example, you might want to process only the data for a specific city and state combination.

Hash Value in Key

A key field can be hashed and stored in the History database instead of storing the original key value when it exceeds the maximum 40 bytes allowed. The hashed key field consists of 8 bytes: bytes 1-4 store the first 4 bytes of the original key and bytes 5-8 store the hash value returned from the hashing routine.

Using hash translation for a key field may decrease performance by approximately 10%, thus increasing CPU time. However, if you are currently using Dynamic Translation processing, switching to hash translation may improve performance (CPU time) by approximately 50%.

This feature can extend your key identifiers to the length needed by your transactions.

Out of Balance Job Tolerance and Rule Counts

You can now set tolerances at the job level based on the number of keys that are out of balance. Job level tolerance can be set for a count or amount. The job level out-of-balance (OOB) amount is accumulated based on an item you specified for the job level total.

Rule-level values can also be specified for accumulation. Rule-level amounts pertain to standard rules only.



The out-of-balance totals for the job and the rules are printed as a separate section at the end of the Control Report. The new section can be printed even if the Control Report is turned off. The totals can be sent to Infogix Insight® if the ability to send XML files is enabled.

You can use this feature to reject files with a large percentage of errors or files for which the error threshold has been exceeded.

ACR/SUMMARY AND ACR/DETAIL ENHANCEMENTS

The following sections describe the major enhancements that pertain to both ACR/Summary and ACR/Detail.

Cross-reference File Definitions Report

A new cross-reference report is available for file definitions. This report shows all of the jobs where a particular file definition is used, including alternate job IDs and model jobs.

You can run this new report against two definition databases simultaneously; for example, you can check the file definition name usage for test and production environments at the same time. The report simplifies the process to find balancing job definitions that use the same file definitions and thus avoid potential deletion or duplication issues when you write new file definitions.

PDF Reader User Program

A new user program, UUPPDF, allows users to extract data from PDF files. This program is for Windows only. The program processes the stream objects in a PDF file and captures the characters that can be read by ACR/Summary and ACR/Detail.

An optional parameter can be specified to display the characters in the SYSOUT file, where you can use the mark and capture method to write the extraction rules.

With this feature, you can compare PDF file data to the source data to ensure that the PDF is accurate before you print it or send it to customers.

Auto-position User Report Columns

For ACR/Detail and for enhanced format in ACR/Summary, a new option enables a user to print fixed-space columns. By entering the start position and spacing, you can print the User Report with the same number of spaces between each column. Optionally, you can enter the column width.



This feature facilitates the generation of a User Report in an easier-to-read format.

Report Print Options

Print and write options for reports and output files were standardized to allow four options for the User Report, Recap Report, Free-form Report, Control Report and UNIDATA2. The standard options follow:

- do not print
- print all
- print out-of-balance only
- print in-balance only

This feature removes previous printing limitations for reports and output files.

OTHER ENHANCEMENTS

The following sections describe the minor enhancements that pertain to ACR/Summary, ACR/Detail, or both.

User Option for Time Separator

In the User Options Files, a new **Time Element Separator** field allows users to specify the separator between the hour, minutes, and seconds in reports. The default separator is a colon (:).

This feature allows you to standardize the print formats on ACR reports to use the same values as your company reports.

This feature pertains to both ACR/Summary and ACR/Detail.

Cross-reference Internal Items Report

The Cross Reference Internal Items Report, in ACR/Summary, has been updated to provide more information. The report now prints an indicator (*) next to a calculated item from another job, where the referenced calculated item is stored as an internal item in that job.

This modification allows you to track an internal item reference throughout its use in other jobs.



User Report Justification

In ACR/Summary, the system no longer left-justifies titles and descriptions on the User Report. A user can position the text with the addition of leading spaces, if indented text is desired.

Include Date Format in XML Outputs

This enhancement includes the User Options date format for reports in the XML file sent to Infogix Perceive®. The date format tag pertains to Control Reports, User Reports, and Free-Form Reports in both ACR/Summary and ACR/Detail.

This change allows Infogix Perceive to recognize the intended format.

User Report with Dynamic Translation

In the User Report, a new item type, KO, enables a job that uses dynamic translation to print the original key value for the page header or column item type. When specified, the report prints the original key value before translation, up to 80 bytes. This feature, like dynamic translation, is for ACR/Detail only.

This feature allows you to use the User Report for jobs with keys that use dynamic translation.

Cross-check in UNIUPDT

In ACR/Detail, a cross check is added to the Update Program (UNIUPDT) to prevent text literals for rules with a numeric type.

Text literals must use text as the comparison type. Rules that incorrectly specify the comparison type will now receive a #UPD615E message.

Program Interface Assembler Copybook

In ACR/Summary, an Assembler copybook, ACRAAREA, was added for use with UAC1000, program interface mode. This updated copybook is needed to recompile with a 4.x upgrade. The copybook is included for the convenience of customers who call ACR/Summary from Assembler programs.

Free-Form Report Width Sent to Infogix Insight

This enhancement includes the report width that was specified for the Free-Form Report in the XML file that is sent to Infogix Insight. Sending the width to Infogix Insight allows the report to be generated as a PDF in portrait mode for



smaller widths or landscape mode for wider widths. The feature pertains to both ACR/Summary and ACR/Detail.

This feature enables customers to create reports in ACR, generate PDFs in Infogix Insight, and use the PDFs for printing, mailing, and other business needs.

UPDATES TO ACR/SUMMARY ON IBM I

All of the previously described 4.5 ACR/Summary enhancements are included on the IBM i platform. In addition, the following features that were in use on other platforms are now available in ACR/Summary on the IBM i platform.

Balancing Extract File Options

You can create an extract file, which is a sequential file that contains all balancing results. You can use this file as input to other systems, as input to a subsequent balancing step, or as an extract debugging tool.

UPDATES TO ACR/DETAIL ON IBM I

All of the previously described 4.5 ACR/Detail enhancements are included on the IBM i platform. In addition, the following features that were in use on other platforms are now available in ACR/Detail on the IBM i platform.

Free-Form Report Improvements

The following improvements have been made to the Free-Form Report for ACR/Detail.

- A user can specify the length for the report. Previously, a page break always occurred after 55 lines.
- A user can define a key break to organize and print totals for the information on the report based on a partial key, for example, by department.

Return Code for No Extraction

A new option at the job- and user-option levels allows you to set a non-zero return code indicating that no records were extracted. This will alert you to check for missing or empty input source files or improperly coded controls. These return codes will be passed to Infogix Insight.



User and Free-Form Reports for RLQ Jobs

Multi-level reconciliation allows the qualifiers the **option to use the base job definitions**. When this option is turned on, the items, calculations, rules, messages, and reports from the base job are used in the qualifier as well.

A new RLQ Restart Report flag has been added that allows you to set the Use base job definitions flag to Y, but not use the reports from the base job. This allows you to create an additional, entirely new User Report, Free-form Report, or both for the RLQ job.

Extraction Program Interface (EPI)

For EPI, you use an extraction program code generator to create an Enterprise COBOL extraction program that corresponds to the file definitions for each input source.

A test utility is provided to test the generated EPI programs before you modify your application with EPI calls.

In previous versions, the code generator produced an RPG extraction program. This change keeps the EPI feature identical to the other platform versions, which makes the rules more portable.

Sort on Descending Keys

By default, ACR/Detail reports and freeform output files print the selected keys in alphabetical (ascending) sort order. You now have the option to use descending order or skip the sort if the keys are already in the desired order, which can save processing time.

Printing in descending order can be especially useful if your keys are dollar amounts, and you want to print the largest amount first.

Dynamic Translation

Dynamic translation allows you to exceed the 40-byte limit for the reconciliation key length and still maintain the original key value to print on reports. You can use a dynamic translation table to have a reconciliation key up to 400 bytes. You can specify as many as 5 key segments of up to 80 bytes.

The option to use a dynamic translation table is set on the Build Key Value Information screen.

A new database utility, Dynamic Translation DB (DINT), initializes the dynamic translation database, which is required for the dynamic translation feature.

When you run reconciliation using the dynamic translation database, each of the long key segments will be written to the newly-initialized dynamic



translation database and associated with an 8-byte identifier, which will be used to write to the key field area of the history database.

The Control Report will show the 80-byte key segment. Listings of the history database and all other reports will show the 8-byte identifier, unless you specify to print the original key, which is available for Free-Form and User Reports.

Suspense Aging Report

The Print Suspense Aging report utility allows you to generate a report that summarizes the contents of history in the suspense database. The report summarizes all keys or some levels of the key in terms of the age of the specified items.

Custom aging allows you to specify aging criteria for any or all five aging rows on the report, thus determining the amount of suspended claims for each category.

UPDATES TO ACR/SUMMARY AND ACR/DETAIL ON IBM I

All of the previously described 4.5 enhancements for ACR/Summary and ACR/Detail are included on the IBM i platform. In addition, the following features that were in use on other platforms are now available for ACR/Summary and ACR/Detail on the IBM i platform.

Select Statements Allow Comparison against Extended Values

When you define the selection criteria to evaluate records for balancing or reconciliation, or for building external translation tables, a new option allows you to indicate that the source value, which can be from an input source or extraction variable, will be compared to one or more extended literals (numbers with 16 to 30 digits or text values with 9 to 80 characters).

For balancing and reconciliation, you can compare the source value against either individual extended values or ranges of extended values.

For building an external translation table, you can compare the source value against individual extended values only. Ranges are not supported.

The following table shows the maximum number of extended values and ranges you can compare against:

	Maximum Extended Text Values	Maximum Extended Numeric Values	Maximum Extended Text Ranges	Maximum Extended Numeric Ranges
Balancing and Reconciliation	8	28	4 sets	14 sets
External Translation Tables	8	28	N/A	N/A

Item Values and Descriptions in Messages

Messages will now be much more useful because they allow you to identify the items that resulted in the out-of-balance situation. You can do this by including the value and/or description of one or more items as part of the message text. For text and numeric items, you can also specify the maximum length of the value or description to include in the message (numeric item values that do not fit will show asterisks, and generate a #U warning). For text items that display the value, or for any item that displays the description, you can specify the first position of the text to include.

Trace Reports

Two new trace reports have been added to ACR/Detail and ACR/Summary on the IBM i platform.

FOR REGULAR INPUT SOURCES

You can create a Trace Report when you run a reconciliation job in access mode 6 or 7. The report is useful in debugging because it provides a formatted list of the selection groups, details on processing of each record read, and notification of key related processes.

The report in your output will be UNIETR.

FOR EXTERNAL TRANSLATION TABLES

You can now request a Trace Report for the processing of an external translation table. This report shows the following information:

- The definitions for building the table.
- The processing of each definition against each record in the external data source, including the values that were selected and loaded into the table columns.
- The details of each translation attempt.

Audit Trail to Infogix Insight

The audit trail shows the user ID and the date and time of Infogix ACR control definition changes. The audit information is captured when a new Infogix ACR control definition is identified, or an existing control definition is updated.

Audit information can be sent to Infogix Insight® if the ability to send XML files is enabled.

Direct Extraction from Delimited Files

A new indicator on input sources and translation tables 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 columns.

CL File Overrides

File overrides in CL can now be processed on the IBM i platform. The OVRDBF command will now be recognized by ACR processing for input sources.

ACR/SUMMARY AND ACR/DETAIL SYSTEM REQUIREMENTS

Requirements for z/OS

Category	Requirement
Operating System	IBM z/OS 1.12 or higher
ISPF Profile	ISPF profiles are not compatible with releases of ACR/Summary and ACR/Detail older than 3.0.
TSO Region Size	*6144 (7168 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 install Infogix Visibility API or 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 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 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 (more if data files are stored locally) 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	Operating System	Approximate Installation Size
IBM	AIX 6.1 or higher	214 MB
Oracle	Solaris 9 or higher	65 MB
Red Hat	Linux 5.3 64 bit or higher	182MB

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	IBM i
	X	3610	CSV utility uses RLQ and base internal items for formatting values.	X	X	X	
	X	3779	XML User Program now recognizes XML Comments and empty XML tags with an embedded space before the end />.	X			

ACR/S	ACR/D	JIRA	Corrections	z/OS	Windows	UNIX	IBM i
X	X	3906	IBM i control file expiration dates can go beyond the current year.				X
	X	3912	User Report XML can handle column width overrides that exceed the normal numeric values size.	X	X	X	X
X		3931	User Report does not truncate items that are larger than the column width.	X	X	X	X
	X	3948	The UNIX platform uses a HOSTSIGN directive to emulate the z/OS behavior for packed zero values. This may impact performance for packed data.			X	
X	X	3959	Freeform SQL FROM statements longer than 70 characters no longer truncate characters 71 and 72.	X	X	X	
X		3967	Ability to delete the User Report is restored.	X			
X		3972	Internal items derived from calculated items can be used in rules.	X	X	X	
	X	3974	User Report correctly prints the original format page headers on subsequent pages.	X	X	X	

ACR/S	ACR/D	JIRA	Corrections	z/OS	Windows	UNIX	IBM i
X		3992	Multiple file keys with differing position and lengths pick up the correct values without an abend.	X			
X		4004	More than 100 different fields can be accumulated into a single internal item.	X	X	X	X
	X	4016	Literals returning from external translation do not cause an abend.	X			
X		4022	When deleting internal items, the message reports only history items from the same job.	X			
	X	4029	The Freeform Report XML option default was changed to now use the User Option file.	X			
	X	4040	Freeform reports that only print OOB keys now print the headers when the first key is in balance.	X	X	X	X
	X	4049	The import process for freeform report fields with a length of 1 now imports with the width set to 1.		X		
X		4050	An update from batch does not put a zero in the reserved area of the J1 card used by ACR/Detail.	X	X	X	X
	X	4053	Key breaks in the Freeform Report do not automatically add a blank line to the report.	X	X	X	X

ACR/S	ACR/D	JIRA	Corrections	z/OS	Windows	UNIX	IBM i
X		4089	Internal items and their associated history items are aligned on the User Report in original format.	X			
X	X	4100	If the TSO/ISPF profile prefix is set to NOPREFIX, the system displays the audit information.	X			

CONTACTING CUSTOMER SUPPORT

If you need assistance, contact Infogix Customer Support.

Support Phone: +1.630.505.1890

Support Email: support@infogix.com

Support Website: <http://support.infogix.com>

Fax Number: +1.630.505.1883

Visit our Website: www.infogix.com