INFOGIX

THE POWER TO TRUST

Infogix ACR/Summary®
&
Infogix ACR/Detail®

Release Notes

Release 9.2

Table of Contents

1. Overview

This document describes the enhancements and modifications included in ACR/Summary® and ACR/Detail® Release 9.2.

2. ACR/Summary enhancements

The following section describes the enhancements for ACR/Summary Release 9.2.

Produce a warning when a change is made to a file access mode

This enhancement is applicable to z/OS.

When you change from an access mode with Select Statements to an access mode with Embedded Keys, a warning should be displayed, the definitions should be deleted and the job shouldn't be able to be saved. This will allow the user to be aware that there is a problem, and what caused it. A New panel was added to show the warning when the access mode is changed. If the user wants to continue and change the access mode, they can press enter or hit PF3 to cancel.

The file definitions are deleted when the access mode changes as follows.

1. From access mode 5 to any other access mode.
2. From any of the other access mode to access mode 5.
3. From access mode 1,2,3,4,5 to access mode 6 ,7.
4. From access mode 6,7 to access mode 1,2,3,4,5.
5. From access mode 3 to any of the other access mode.

Issue return code if DD not found

This enhancement is applicable to z/OS.

When there is a missing or incorrectly spelled DD execution within the JCL, the system will produce a #U message within the SYSOUT as well as a "DD STATEMENT MISSING" line within the JES2 Job Log. The end result however is a RC=0, in balance. ACR/Detail works differently and is able to produce a RC/halt processing. A client currently running V4.3 is running into this issue, since ACR/Summary is unable to halt processing or produce a RC=non-zero. The jobs are falling under the radar since it is returning an in balance RC, whereas in reality the DD statements are not being found.

3. ACR/Detail enhancements

The following section describes the enhancements for ACR/Detail.

Copy history based on relative date

This enhancement is applicable to z/OS, Windows and Unix.

Customers who have large history databases (over a million records) would like to clean them up. They cannot use a reorg/delete, because they take 12+ hours to run with that many records. They have discovered that they are able to copy the desired records to a new history database, clear the old database, then move the saved records back. Currently the utility to copy can only sort based on specific keys or a specific date range. They would like to be able to sort based on a relative date so that they can automate the process. A new 'relative date' option was added to the 'Copy History' utility.

4.ACR/Summary and ACR/Detail enhancements

The following section describes the enhancements that pertain to both ACR/Summary and ACR/Detail.

Allow Multiple Freeform Reports

This enhancement is applicable to z/OS, AS400, Windows and Unix.

Allow a user to create more than one Freeform Report per job. This Freeform Report could be customized so that it contains different data than the first freeform report. Customers will then be able to make reports that could be tailored to specific end-users needs.

Allow subtraction on the LHS/RHS or both in a calculation item

This enhancement is applicable to z/OS, AS400, Windows and Unix.

During the design of the controls for a customer, we ran into a snag where we discovered you couldn't subtract in a calculation. You can use the - as an operator, but you currently can't use a - on the LHS or RHS for 2 or more items. This would be a beneficial enhancement because some of the results needed could have been done via a calculation and stored for later in an internal item. However, we had to adjust our design to not use calculations, but instead use rules. For example, the logic needed was something like below:

E-005 + I-002 - I-004 - I-006 - I-011

If we weren't able to readjust our design to use only rules, we would have needed to create at least 4 calculations to reach the same result.

Allow copying internal and external translation table definitions to a new translation table

This enhancement is applicable to z/OS, AS400

This gives the user the ability to copy one table to another with a new table name. This reduces the amount of entry that is needed for multiple tables that may be similar.

Delimited Data Field to Display Position and Length in Extract Window

This enhancement is applicable to z/OS and Windows.

If partial data is extracted from a delimited data field (DDF), for better clarity, field position and length should also be displayed in Extract Window/View Definition. Currently only the delimited field no. is displayed. The first two select statements look identical but in fact they are using different portion of DDF 2. Instead of displaying 'DDF 0002'. This change will display the position and length for each DDF.

Email Notification

This enhancement is applicable to AS400, Unix.
Not all the public email servers are able to receive the emails sent out from this enhancement, verify the feasibility of the email address as needed.

When email notification is turned on, the rule highest return code is used to check against all the messages setup for the job. Multiple messages may be setup for the same return code. Instead of sending an email for each message, the return code messages and report attachments for each email recipient are consolidated. As a result, each email recipient will receive one email.

For each email recipient, the balancing/reconciliation will send email and report attachments according to the report switches specified for the messages. The send-mail will be submitted automatically as soon as the balancing/reconciliation job is completed. If the job sends email to N recipients, a total of N send-mail jobs will be run and the users will be notified with N job completion messages.

The following reports can be attached for each email.
- JOBLOG / SYSOUT
- Control Report
- Recap Report
- User Report
- Freeform Report

Note: For AS400 there is a 400 character limitation for the amount of message data that can be entered in for the body of the email.

Dynamic Input Text Highlighting Based on Selected Definition

This enhancement is applicable to Windows.

To assist ACR/Workbench users creating extract definitions or interpreting existing definitions. Users can highlight text in the point-and-click area that applies to the selected extract definition. For example, if the user clicks a Select statement that says, "SELECT if position 7 for a length of 7 is equal to a field in the data source, then that criteria would be highlighted in real time on the lower portion of the input source window (assuming a file is selected).

Ability to get pop-up menu of extraction definitions on right click on input source pane

This enhancement is applicable to Windows.

Requesting the ability to select a portion of the input source and right-click to get a popup menu with the option to add an extraction definition (determined by the product and access mode) based on the selection in the extract window. This is similar to the current point-and-click in ACR/Workbench, except instead of moving the mouse to the top of the window and clicking the button (to add a key field, for example), you could right-click in the input source and select the appropriate button right near your mouse.

Remove Item Number from Cycle Table Items

This enhancement is applicable to AS400.

The screens on the AS400 for cycle tables use an item number to define the record which holds 10 cycle numbers. The user shouldn't have to create the cycle tables based on item numbers. The item numbers should be transparent to the user.

Create a UNITR report when running Utilities

This enhancement is applicable to AS400.

The utilities on the AS400 never printed the UNITR report explaining the parameters that were used for the utility. Changed all utilities to be consistent with the other platforms and produce the same reports.

Allow ODBC Data Source Name Override

This enhancement is applicable to Windows, Unix.

The ODBC Data Source Name can now be overridden in batch scripts by setting its FILEID value, where FILEID represents the unique File ID for each input source.

When users run balancing/reconciliation jobs using batch scripts on Windows/UNIX platform, FILEID for each input file is processed as an environment variable. The value set for the FILEID environment variable is then mapped to the input dataset name.

- For non-RDBMS input, FILEID setting is required and the value set for the FILEID is the input dataset name – existing process.
- For Oracle file organization/type input, FILEID setting is not required. The Oracle Database Name is set at system level – existing process.
- For ODBC organization/type input, FILEID setting is optional.
    - When ODBC FILEID is not set, the default Data Source Name specified in the file definition will be used to connect to the ODBC database – existing process.
    - When ODBC FILEID is set, the value set for the FILEID is the override value for the ODBC Data Source Name and it will be used to connect to the ODBC database – this is the newly added process for balancing/reconciliation.

To allow ODBC Data Source Name override, the following batch changes are required:

- ACR/Summary balancing will be modified to process ODBC Data Source Name overrides when applicable.
- ACR/Detail reconciliation will be modified to process ODBC Data Source Name overrides when applicable.

Scroll through an input source using mouse wheel in Workbench

This enhancement is applicable to Windows.

This new change allows users to use the mouse wheel, to scroll up and down in an input source. This change can be used in the input file definitions for the job or for an external translation table.

5. ACR/Summary and ACR/Detail system requirements

Requirements for z/OS®

Category	Requirement
Operating system	IBM z/OS® 2.2 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 5.1 or any compatible COBOL is required if you wish to compile user exits.
JAVA®	Version 6.0.1 SR1 or higher

*Additional region size is necessary to install Infogix Visibility API, retrieve history from Infogix Assure or to process large files in the extract window, particularly for delimited data in ACR/Summary access modes 1-4. To avoid additional tuning, set the region size to 0M.

Requirements for Windows®

ACR/Summary and ACR/Detail Server

Category	Requirement
Hardware and operating system	IBM® or compatible machine with Microsoft® Windows 7, Windows Server® 2008, or Windows Server 2012
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 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 Communication	Access to a network using TCP/IP protocol

Requirements for UNIX® and Linux®

Vendor	Operating system	Approximate installation size
IBM	AIX 7.1 or higher	229 MB
Oracle®	Solaris® 11.2 or higher	113 MB
Red Hat	Linux® 6.5 or higher	272 MB

Requirements for IBMi

Category	Requirement	Approximate Installation Size
ACR/Summary		99 MB
ACR/Detail		193 MB
Operating System	V7R1	
COBOL	ILE Cobol V7R1	
JAVA	Version 6.0 SR9 FP1 or higher	

6.Instructions for upgrades

Upgrading ACR/SUMMARY and ACR/DETAIL from a previous release:

1. In Summary when there is a missing or incorrectly spelled DD execution within the JCL, the system will produce a #U message within the SYSOUT as well as a "DD STATEMENT MISSING" line within the JES2 Job Log. The end result however is a RC=0, in balance. ACR/Detail works differently and is able to produce a RC/halt processing. A client currently running V4.3 is running into this issue, since ACR/Summary is unable to halt processing or produce a RC=non-zero. The jobs are falling under the radar since it is returning an in balance RC, whereas in reality the DD statements are not being found. Change has been made to return a 4007 when a missing DD occurs.

2. Email enhancement for AS400 the email body is limited to no more than 400 bytes for the body of the mail being sent.

3. Email enhancement for AS400. Normally users will run the balancing jobs in batch, which works just fine with email. If user is running a job online and is using email notification, when user has more than one set of report in their outq, the ACR Detail/Summary products will try to send all control/user/FF reports from their outq.

4. On Unix using the copy history using relative date. The user will have to add the RDATE parm card in order to use this feature.

    If the 'Relative Date' option is not used, column 27 – 30 will has to be blanked out.
    ```
    ----+----1----+----2----+----3----+----4----+----5
    TRANSFER DHF     001OPTION3
                     002KEY1
                     003KEY2
                     004TIME
                     005RDATE 0001
    ```

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

6. If the upgrade is not from Release 9.1, also review the 'Instructions for Upgrades' section of all the Release Notes between the old release and the new release (9.2), and take actions as needed.

7. Maintenance fixes

The following maintenance fixes have been completed for this release.

ACR/S	ACR/D	JIRA	Corrections	z/OS	Windows	UNIX	IBMi
X	X	4134	Extended items causing large increases in CPU performance time	X	X	X	X
X	X	4309	Using a VSAM dataset for external table that isn't a KSDS - S0C4	X	X	X	X
	X	4390	Quick-launching ACR/Workbench with a job throws an error but still loads job		X		
X	X	4412	#DWBS029 panel warning message should inform of a required copy/move	X			
X		4709	ACR/Summary Cross-Reference Report (Internal Item) - Message Item is missing on the report	X	X	X	X
	X	5285	Extraction Program interface and international date translation	X	X	X	X
X	X	5676	Assembler - Missing pds member cause product to hard abend	X			
X	X	5796	ACR/Summary and Detail - Copy and paste feature cuts off last byte on List Definition Panel		X		

X		5879	For update error #UPD063E (TRANSLATION TABLE NOT SPECIFIED), wrong field types are checked for ACR/Detail	X	X	X	X
	X	5880	For update error #UPD063E (TRANSLATION TABLE NOT SPECIFIED), date and time field are not checked	X	X	X	X
X		5977	ACR/Summary builds incorrect file access area for access mode 1, 3 and 4 when the maximum record count defined is greater than 65534.		X		
X		5985	UTLDHFR - Reorg table bombs because it's a S9(3). This messes up the relative record.	X			
X		5988	ACR/Summary Error #UPD738E ITEM NBR 000; ITEM TYPE S/B BLANK (249163)	X			
	X	5989	connector item from Unix with bad data	X		X	
	X	5990	Extract Window - Selection Field - Definition line is not formatted properly when selecting a DDF not equal to an extraction variable	X			
X	X	5992	Selection Field Panel - For selection type HEX	X			

			and CONTAINS, content of #DWBPF514 is wrong				
X	X	5993	Extract Window - Detail Field - Definition line is not formatted properly when totaling a DDF into an extraction variable	X			
X		5996	Extract Window - View Definition - For Field Value (F3), the line description should be 'TOTAL' instead of 'PICK UP' if the output format is Cumulate Count/Amount	X			
X	X	5997	External Translation Window - Selection Field - Definition line is not formatted properly when selecting a DDF with selection types <, numeric or blank	X			
X		5999	External Translation Window - Reformat Field - Definition line is not formatted properly when reformatting an extraction variable	X			
	X	6001	change to send history item print format thru connector to return correct value	X	X	X	X
X	X	6006	External Translation Table - Table Extract Window - Panel error is displayed in the prior screen	X			

X	X	6007	External Translation Table - Table Extract Window - Definition is created and appears as a blank line when the panel is flagged with an error message	X			
	X	6013	Database Utility - Copy Selected Record - No error is displayed when FROM key > TO key	X	X	X	X
	X	6014	Database Utility - Extract History - Error messages are not displayed properly when parm cards are invalid	X	X	X	X
	X	6015	Database Utility - Extract History - Error are not caught for invalid parm card 'ABS TIME' and 'ABS CYC'	X	X	X	X
X		6024	History Analysis formatting not working	X	X	X	
	X	6025	Display of ACR/D DDF selection field, the wording "is" is at the wrong spot		X		
X		6027	Update from batch - User Report (Original Format) - If the item no. is blank in the batch card, it is updated as ' 0' in the database	X	X	X	X
X		6028	Customer found an issue with Build batch and J9 SEQ 2 card. Missing	X			

			information on batch card				
	X	6029	Database Utility - Copy Selected Record - No record is copied when the parm FROM date and TO date are 000000 and 999999 respectively	X	X	**X**	**X**
	X	6030	ACR/Detail - Job causes MCH error on AS400				**X**
	X	6045	DDF not working as expected in ACR/D global reformat	X	X	X	
	X	6074	ACR/Detail - User Report - Page Header - Header Format (Justification) is not restored properly	X			
X	X	6076	Update from Batch - Balancing Rule - No error is issued If you have more items than signs entered at LHS/RHS	X	X	X	X
	X	6081	ACR/Detail - AS400 - Delimited Date File Information holding on to prior entry				X
	X	6082	ACR/Detail - delimited input sources not being refreshed on AS400				X
X	X	6083	history file list on Windows/Unix displays number for alpha data.		X	X	
	X	6096	ACR/Detail - Several online issues when working with				X

			extraction variables on AS400				
	X	[6103](#)	UPDATE issuing #UPD786E RC=16 in Rel90 and not in Rel44	X			
X	X	[6112](#)	Upgrade testing, 4.4 to 9.0: Upgrade from batch problem - SOC7 on previous test case - UXF0003	X	X	X	X
	X	[6113](#)	ACR/Detail - Error message when trying to view file in External Translation Tables				X
	X	[6116](#)	QA upgrade testing - 4.4 to 9.0 - J0 0003 card. "M" vs blank in position 27 in build vs create batch	X	X	X	X
X	X	[6117](#)	QA upgrade testing - 4.4 to 9.0 - F0 Blanks vs "0"; Position 27-33 S/B blank; 34-40 and 41-47 S/B 0000000-9999999 in build vs create batch	X	X	X	X
	X	[6118](#)	QA upgrade testing - 4.4 to 9.0 - J4 card, blank vs N in build vs create batch	X			
X	X	[6119](#)	QA upgrade testing - 4.4 to 9.0 - J0 0003 card added to build batch vs create batch	X			
X	X	[6120](#)	QA upgrade testing - 4.4 to 9.0 - J6 batch card differences	X			

X	X	[6122](#)	QA upgrade testing - 4.4 to 9.0 - X0 batch card differences; low values and Y vs blanks	X			
X	X	[6123](#)	QA upgrade testing - 4.4 to 9.0 - T1 batch card differences, blank vs "22"	X	X	X	X
X	X	[6124](#)	QA upgrade testing - 4.4 to 9.0 - J5 card differences, 2 vs 0 in position 58	X			
	X	[6125](#)	QA upgrade testing - 4.4 to 9.0 - R0 batch card differences in build vs create batch	X	X	X	X
	X	[6126](#)	QA upgrade testing - 4.4 to 9.0 - R4 batch card, zeros vs blanks, position 31-36	X			
	X	[6127](#)	QA upgrade testing - 4.4 to 9.0 - R5 batch card, zeros vs blanks, position 34-36	X			
X	X	[6128](#)	QA upgrade testing - 4.4 to 9.0 - J5 batch card, zeros vs blanks, position 74	X	X	X	X
X	X	[6129](#)	QA upgrade testing - 4.4 to 9.0 - X1 and X2 batch card, zeros vs blanks, position 72	X	X	X	X
X	X	[6131](#)	Selection Rule panel (TRN8210P) - Selection Type is blank after restoring batch cards from old jobs	X			
X	X	[6133](#)	Update from Batch - Calculated Item -	X	X	X	X

			Wrong error message is displayed if the literal (extended format) is not numeric				
	X	[6134](#)	ACR/Detail - History Analysis - Report Definition Window - Print Options panel (HAD2020P) - Report Print Sequence is not padded with leading zeros	X			
	X	[6135](#)	Upgrade testing - 4.4 to 9.0 - R4 batch card, '010' vs '001', position 69 - 71	X	X	X	X
X	X	[6157](#)	Upgrade testing - 4.4 to 9.0 - J4 card differences, 2 vs 0 in position 58	X			
X		[6169](#)	QA upgrade testing - 4.4 to 9.0 - J0 0002 batch card - position 61, 0 vs spaces	X			
X		[6170](#)	QA upgrade testing - 4.4 to 9.0 - J9 0002 batch card Blanks vs 000	X			
X		[6171](#)	QA upgrade testing - 4.4 to 9.0 – F0 0001 batch card, position 78-79, blank vs YN	X	X	X	X
X		[6172](#)	QA upgrade testing - 4.4 to 9.0 – J0 0006 batch card - position 33, 1 vs 0	X			
X	X	[6173](#)	QA upgrade testing - 4.4 to 9.0 – J61 batch cards - position 67, DNY vs blanks	X			

X		6175	QA upgrade testing - 4.4 to 9.0 – S1 (summary column) batch card - Position 47 - 53, +000000 vs blanks	X	X	X	X
X		6176	QA upgrade testing - 4.4 to 9.0 – J9 batch card - '5' vs blank	X	X	X	X
X		6177	QA upgrade testing - 4.4 to 9.0 – S3 batch card - position 71 '0' vs blank	X	X	X	X
X		6178	QA upgrade testing - 4.4 to 9.0 – extra S0 000 card in create batch	X			
	X	6182	Freeform Report - Detail Report Window (RPT1001P) - Ruler is wrong	X			
X		6200	ACR/Summary update error for RDBMS Record Not Equal To relationship operator	X	X	X	
X	X	6215	Update from Batch using OLD JCL - ACRUPDT failed	X	X	X	X
X		6218	QA upgrade testing - 4.4 to 9.0 – S2 (detail row I) batch card - Position 51 - 53, blank vs 000	X			
	X	6239	ACR/Detail - importing definitions originally created in release 4.1 causing error on 9.2		X		
X	X	6240	Definition List - Statistics - 'Number of Message Records' not	X	X	X	X

			aligned properly				
X	X	[6253](#)	Upgrade testing 4.9 to 9.0 - F0 0002; extra batch card in build batch vs. create batch	X			
X	X	[6254](#)	ACR GUI shows incorrect copybook record layout length if field size is > 65535		X		
	X	[6256](#)	Upgrade testing 4.9 to 9.0 - "L" or blank in position 37 in build batch vs create batch in U0 batch card	X			
	X	[6257](#)	Upgrade testing 4.9 to 9.0 - J3 Seq 2 card. Position 67 has a "-01N in build batch	X			
X	X	[6258](#)	Upgrade testing 4.9 to 9.0 - J4 batch card, position 78, N(build batch) or blank(create batch)	X	X	X	X
X	X	[6260](#)	ACR has stopped working while opening an existing .dob/.tsk/.tbl/.had		X		
X		[6278](#)	QA upgrade testing - 4.9 to 9.0 F3 card '0000' in build batch; blank in create batch, in position 34 for 4.	X			
X		[6279](#)	QA upgrade testing - 4.9 to 9.0 J35 blank vs 'I' position 78 in Seq 1 card; blank vs "N' position 35 in Seq 2 card	X			
X		[6280](#)	QA upgrade testing - 4.9 to 9.0 Extra J9 card in create batch	X			

X	X	[6283](#)	QA upgrade testing - 4.9 to 9.0; F9C cards missing in create batch	X			
X		[6284](#)	QA upgrade testing - 4.9 to 9.0; #8 J8 and J9 batch cards look out of sync with each other in build vs create batch	X			
X		[6285](#)	QA upgrade testing - 4.9 to 9.0; #9 Extra S0 card in create batch	X			
X	X	[6287](#)	MVS Online Function - Backup Definition Library - 'Selected key' option not working properly.	X			
	X	[6294](#)	Low-values generated in Freeform Report XML File if the rule message is blank	X	X	X	X
X	X	[6297](#)	Freeform Report XML - Autoload to Database - Got #UWV099E (XML WRITER ERROR CODE 079) when the message exceeds the maximum	X	X	X	X
X	X	[6298](#)	Freeform Report/Control Report/User Report - XML - Autoload to Database - Last record was not written to the file when the message exceeds the maximum	X	X	X	X
	X	[6299](#)	Freeform Report Window - View/Codes-	X			

			Report Codes Help Panel (RPH4010) - </R> and </P> are missing				
X	X	6300	Freeform Report XML File - No error message is displayed for open/close/write/DD not in JCL	X	X	X	X
	X	6308	Freeform Report - RLQ Restart - Some information in the help panel (RPH102B) is incorrect	*X*			
X	X	6311	Delete a job with alternate jobs only the primary job got deleted	X			
	X	6323	Freeform Report Window - View/Codes- Report Codes Help Panel (RPH4010) - <RS> and Key Break related symbols are missing	X			
X		6324	Freeform Report Window - View/Codes- Report Codes Help Panel (RPH4010) - <RS>, <DC> and <DR> are missing	X			
	X	6329	ACR Detail UDS4400 trying to read on a closed file.				X
X		6345	ACR/Summary - Job Modeling - Option X - Freeform Reports for the qualifier jobs are not printed properly	X	X	X	X

	X	[6349](#)	ACR/Detail - Alternate Job - The job is not kicked off properly if the job alternate to is a qualifier job	X	X	X	X
X		[6351](#)	ACR/Summary - Model Job - Help Panel for Model Definition Options (SWH7261) - Description for Option 2 is too general	X			
X	X	[6379](#)	Input Source Panel - File Comments are not displayed properly for the qualifier file	X			
X		[6384](#)	ACR/Summary - Errors When Importing/Building Batch After Upgrading To 9.0 - Got #UPD102E and #UPD734E during Update from Batch	X			
	X	[6410](#)	Definition List - ACR/Detail - User Report section headings are incorrect	X	X	X	X
X	X	[6412](#)	ACR/Summary and Detail - Value for flow type look up rules not being stored when using 2 to change				X
X	X	[6419](#)	ACR/Detail and Summary - Table Desc showing item name not table description on TEXT screen				X
	X	[6423](#)	ACR/Detail - Update from Batch did not check	X	X	X	X

			Freeform Report RLQ Restart must be N for non-RLQ job		
X		6430	ACR/Summary - Time Item for direct input showing "Item Number" in value field	X	
	X	6440	ACR/Detail - GUI display appears with text lined through on Key break info for Freeform	X	
	X	6477	AS400 Create environment in batch does not initialize the UNIDF file		X

Contact us

If you need assistance, submit a case online at support.infogix.com, or contact Infogix Customer Support at +1-630-505-1890.

If you are experiencing issues contacting us by phone or by our website, please email support at support@infogix.com

Visit our website at www.infogix.com