



Infogix ACR/Summary® & Infogix ACR/Detail®

Installation Guide

For IBM® i

Release 9.2



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Introduction

This guide provides instructions for installing the ACR/Detail and ACR/Summary for the first time.

For instructions on how to upgrade from a previous release, contact Infogix. See “[Contacting Customer Support](#)” on page 5.

Audience

This guide is intended for the personnel at your site who will perform the installation or upgrade. A knowledge of system installation is required.

System Requirements

The minimum system requirements are as follows:

| ACR/Summary or ACR/Detail for IBM i | |
|-------------------------------------|---|
| Operating System | IBM i V7R1 |
| Disk Space ¹ | ACR/Summary 100 MB ACR/Detail 200 MB |

1 - Additional space is required for each production and user environment based on the number of jobs balanced and the amount of historical information saved.

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

1 ■ Introduction

Contacting Customer Support

Installing ACR/Detail

Installation Steps

The following is an overview of the steps you must perform:

1. "Step 1: Review Space Requirements" in the next section.
2. "Step 2: Create ACR User Profile and Logon as ACR" on page 7
3. "Step 3: Perform the Installation" on page 8
4. "Step 4: Update the Control File" on page 9
5. "Step 5: Install Patches, If Necessary" on page 10
6. "Step 6: Test Your ACR/Detail Installation" on page 10
7. "Step 7: Set Up the Environment" on page 12
8. "Step 8: Specify User Options" on page 15

Step 1: Review Space Requirements

Review the information in "System Requirements" on page 5.

Step 2: Create ACR User Profile and Logon as ACR

ACR/Detail objects are saved with PUBLIC *USE authority. They are owned by ACR. Before installation, it is necessary to create an ACR user profile with *USER rights. Notice in the example below that the authority created is *ALLOBJ. The *ALLOBJ authority is required only for the installation. It is needed because the installation programs require authority to create and restore objects. When the installation is complete, the *ALLOBJ authority can be revoked.

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Installation Steps

For example:

```
CRTUSRPRF USRPRF (ACR)
USRCLS (*USER)
SPCAUT (*ALLOBJ *SAVSYS)
JOB (DETAIL)
```

Note: The system message “Object Detail in library *LIBL not found” will appear. This informational message indicates that the specified job description for the user profile ACR does not currently exist. However, the user profile (ACR) is still created. The job description for the profile will be restored automatically with the product.

After you enroll User ID ACR in the system distribution directory, logon with User ID ACR.

Step 3: Perform the Installation

Perform the following steps:

1. Make sure you have a system backup before performing the installation.
2. Load ACR/Detail to the IBM i by mounting the installation CD-ROM or cartridge and typing the following command:

```
LODRUN DEV (*OPT)
```

3. When you install ACR/Detail, two main libraries are created. The default names and descriptions are as follows (see the note about renaming libraries below):
 - The program library, **DETAIL**. This contains all of the programs and code for this release.
 - The program change library, **DETAILP**. This will be populated when you install any future patches (fixes and enhancements) for this release.

Note: About renaming libraries:

During the installation, you have the option of renaming the libraries. If you rename them, the new libraries need to have the same relationship as the original libraries and their names should be used in place of **DETAIL** and **DETAILP** during the installation process.

For example, if you rename the **DETAIL** and **DETAILP** libraries to **DTL** and **DTLP**, respectively, then you should use the **DTL** and **DTLP** libraries anywhere that **DETAIL** and **DETAILP** are indicated during the installation procedure.

If libraries with these names already exist, they will be replaced.

4. Press **Enter** to install ACR/Detail.

After the LODRUN command finishes, check the Joblog for any problems.

Step 4: Update the Control File

The Infogix Control File controls licensing and several global options for ACR/Detail. Before you can run ACR/Detail, it is necessary to update the Control File. To do this, complete the steps below.

1. Execute the following commands:

```
ADDLIBLE DETAILP *LAST
ADDLIBLE DETAIL *LAST
CALL CUPD
```

The ACR/Detail Installation Control File Update screen will appear.

| <i>mm/dd/yy</i> | 12:00:00 | ACR/Detail Installation | ACR/D <i>releasenumbr</i> |
|-----------------|----------|-------------------------|---------------------------|
| CUPD | | Control File Update | |
| | | User Name: _____ | |
| | | Page Size: _____ | |
| | | Wait Time: _____ | |
| | | F3=Exit | |

2. For **User Name**, enter a user, group, department, or company name that should appear at the top of all ACR/Detail reports.
3. For **Page Size**, enter the number of report lines to print per page on ACR/Detail output reports. The default is 66 lines per page.
4. For **Wait Time**, enter the number of seconds the system should wait for a file that is already allocated. The default is 900 seconds.
5. Press **Enter** to update the Control File with your overrides and the license expiration date.

Note: If you are running ACR/Detail during a trial period, the message, Product will expire in ___ days, will appear automatically on the Main Menu. If this message appears after the product has been purchased, call Customer Support using the information in ["Contacting Customer Support"](#) on page 5 so that adjustments can be made to the Control File to remove this message.

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Installation Steps

Step 5: Install Patches, If Necessary

Please log into our password-protected Web site at <http://www.infogix.com/support/default.asp> to download any available patches for this product. Patches come with installation instructions.

If you do not have Internet access, please contact Customer Support for assistance. See “Contacting Customer Support” on page 5.

Step 6: Test Your ACR/Detail Installation

To test your ACR/Detail installation, you will run a sample job and verify that it successfully produces several reports.

1. Type **ACRD** on the IBM i command line and press **Enter** to bring up ACR/Detail.
2. On the ACR/Detail Main Menu, select **1=Definitions**.
3. On the Definitions Main Menu, select **1=Basic Job Information**.
4. On the Basic Job Information List, type **9=Run Job** next to PHONEEXERCISE and press **Enter**.
The Execute Reconciliation Job screen (JRUN) will appear.
5. Leave the **Cycle Number** field blank.
6. If you will run the job in batch, change the **Job Queue**, **Output Queue**, and **Hold Job** options if they are not what you want.
7. Press **Enter** to run the test job in batch, or **F20** to run online.
The job generates the ACRDCNTL, ACRDRCAP, ACRDUSER, and ACRDERROR reports. The reports are shown on the pages that follow. If all the reports are correct, then you have successfully installed the current release.

| ACR/D releasenumbr | | Reconciliation Control Report | | Page 1 | |
|--------------------------------|--------------------------------------|--------------------------------------|----------------------|-------------------------|----------|
| DATE: dd/mm/yy | | RECONCILING SUMMARY AND DETAIL FILES | | Job ID=PHONEEXERCISE | |
| TIME: 17.01.59 | | | | Cycle#=2011 | |
| ENTRY KEY= 312 2537252 | | | | | |
| 0315 | | | | | |
| A. Internal Control Items: | | | | | |
| Item | Description | Left | Right | | |
| DTLAMT | AMOUNT FROM THE DETAIL CHARGES FILE | | \$1.23 | | |
| SUMAMT | AMOUNT FROM THE SUMMARY CHARGES FILE | \$1.23 | | | |
| B. History Items: | | | | | |
| Item | Description | Left | Right | | |
| HIST1 | AMOUNT FROM THE DETAIL CHARGES FILE | | \$1.23 | | |
| ----- History Key ----- | | | | | |
| 312 | 2537252 | DTLAMT | 00 | 00000001 | |
| | | RUN DATE: | dd/mm/yy | Run Time: | 17.01.22 |
| HIST2 | AMOUNT FROM THE SUMMARY CHARGES FILE | | \$1.23 | | |
| ----- History Key ----- | | | | | |
| 312 | 2537252 | SUMAMT | 00 | 00000001 | |
| | | RUN DATE: | dd/mm/yy | Run Time: | 17.01.22 |
| C. Calculated Items: | | | | | |
| Item | Calculation Formula | Result | | | |
| CALC1 | 10.00000 + SUMAMT | \$11.23 | | | |
| CALC2 | 20.00000 + DTLAMT | \$21.23 | | | |
| CALC3 | 30.00000 + DTLAMT | \$31.23 | | | |
| CALC4 | 40.00000 + SUMAMT | \$41.23 | | | |
| D. Rules and Results: | | | | | |
| Item | Rule | Result | Error/Tolerance | | |
| GREATERTHAN | CALC1 > CALC2 | **OUT OF BALANCE** | \$10.00- | | |
| LESSTHAN | CALC1 < CALC2 | IN BALANCE | | | |
| SUMDTL | CALC1 = CALC2 | **OUT OF BALANCE** | \$10.00- | | |
| E. Special Instructions: | | | | | |
| Rule Item | Return Code | Instructions | | | |
| GREATERTHAN | 2000 | CALC1 IS NOT GREATER THAN CALC2 | | | |
| SUMDTL | 1000 | CALC1 IS NOT EQUAL TO CALC2 | | | |
| | | **OUT OF BALANCE** | (Return Code = 2000) | | |
| Environment Library: MARD32ENV | | Job Start Date=050315 | | Job Start Time=17.01.59 | |
| Copyright Infogix, Inc. | | | | | |

| ACR/D releasenumbr | | Reconciliation Recap Report | | Page 1 | |
|--------------------|---------|--------------------------------------|--------------------|----------------------|--|
| DATE: DD/MM/YY | | RECONCILING SUMMARY AND DETAIL FILES | | Job ID=PHONEEXERCISE | |
| TIME: 14.54.28 | | | | | |
| Key No. | Key | Cycle # | Status | Code | |
| 1 312 | 2537252 | 00000001 | **OUT OF BALANCE** | 2000 | |
| 2 312 | 3625227 | 00000001 | **OUT OF BALANCE** | 2000 | |
| 3 312 | 6834644 | 00000001 | **OUT OF BALANCE** | 2000 | |
| 4 708 | 8200252 | 00000001 | **OUT OF BALANCE** | 2000 | |

| ACR/D releasenumbr | | Reconciliation User Report | | Page 1 | | | | |
|--------------------|----------|--------------------------------|-----------|----------------------|------------|------------|------------|------------|
| DATE: DD/MM/YY | | USER REPORT FOR PHONE EXERCISE | | Job ID=PHONEEXERCISE | | | | |
| TIME: 14.54.28 | | | | | | | | |
| KEY FIELD | CYCLE ID | INT ITEM | HIST ITEM | CALC ITEM | KEY RTN CD | RUL RTNCD/ | RUL ERR/TO | SPEC INSTR |
| 312 | 00000001 | \$1.23 | \$1.23 | \$11.23 | 2000 | 1000 | \$10.00- | CALC1 IS N |
| 312 | 00000001 | \$.25 | \$.25 | \$10.25 | 2000 | 1000 | \$10.00- | CALC1 IS N |
| 312 | 00000001 | \$28.03 | \$28.03 | \$38.03 | 2000 | 1000 | \$10.00- | CALC1 IS N |
| 708 | 00000001 | \$36.51 | \$36.51 | \$46.51 | 2000 | 1000 | \$ 2.58- | CALC1 IS N |
| | | | \$66.02 | \$106.02 | | | \$32.58- | |

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Installation Steps

| | | | | |
|--------------------|---------|----------|--------------------------------------|----------------------|
| ACR/D releasenumbr | | | | Page 1 |
| DATE: DD/MM/YY | | | Job Control Error Report | |
| TIME: 16.45.04 | | | RECONCILING SUMMARY AND DETAIL FILES | Job ID=PHONEEXERCISE |
| Message ID | Msg Sev | Msg Type | Message Text | |
| ----- | ----- | ----- | ----- | |
| | | | *** NO ERRORS *** | |

Step 7: Set Up the Environment

Note: Test and Production Databases: In most applications, several test libraries are established -- one for each user of ACR/Detail. Each library will have its own ACR/Detail databases created when it is defined in environment setup. However, you should normally have only one production database.

Create the User and Production Environments

After installing ACR/Detail, you need to create user and production environments. The user environment is for testing ACR/Detail jobs before moving them into production. The production environment is where all tested jobs will run.

Follow the procedure below to create the user environment. Then, repeat the procedure to create the production environment.

1. Execute the command **ADDLIBLE DETAILP *LAST**
2. Execute the command **ADDLIBLE DETAIL *LAST**
3. Type **ACRD** on the IBM i command line.
4. On the ACR/Detail Main Menu, select 5=Environment Setup.
5. On the Environment Setup Menu, select 1=Environment Setup.
The Environment Setup File Creation screen will appear. On this screen, you specify the name of an environment library to create. Then,

you can run a job to create the library and several files required by ACR/Detail.

| <i>mm/dd/yy</i> | 10:31:18 | Environment Setup | ACR/D | <i>releasenumbr</i> |
|--|----------|-------------------|----------|---------------------|
| ENVC | | File Creation | | |
| Library Name: _____ | | | | |
| Create Definition Files: 1 1=Yes, 2=No | | | | |
| Create History File: 1 1=Yes, 2=No | | | | |
| Job Queue | | Output Queue | Hold Job | |
| <u>QBATCH</u> | | <u>PRT01</u> | <u>1</u> | 1=Yes, 2=No |
| F3=Exit F20=Run Online | | | | |

6. Enter a **Library Name** for the user or production environment library you want to create.
7. Accept 1=Yes for **Create Definition Files**. The definition file will store ACR/Detail job and file definitions required to read inputs, extract and reconcile values, and produce reports.
8. Accept 1=Yes for **Create History File**. This file will store all saved ACR/Detail values.
9. If you will create the environment files in batch, verify the following settings:
 - Job Queue**—The name of the job queue to use.
 - Output Queue**—Where to direct the Database Initialization Report output by the file creation job.
 - Hold Job**—2 will release the job immediately; 1 will hold it on the job queue.
10. Press **Enter** to run file creation in batch or **F20** to run online. Repeat the steps above to create the production environment.

Set Up User Library Lists

The order in which libraries appear on the user and production library lists is important. The order of the libraries determines which files and programs are executed within a job run.

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Installation Steps

When executing ACR/Detail, your library list should look similar to the following:

```
QGPL
QTEMP
*****
User or Production Library (created in previous step)
*****
DETAILP
DETAIL
```

Hints:

- Put QTEMP above DETAILP and DETAIL.
- Put the user or production library anyplace above DETAILP.
- Put DETAIL last.

Assign Privileges to Users

Note: Securing the Production Databases

We recommend that you take steps to secure your installation. At a minimum, protect the databases by allowing read-only access to the production database files for non-production jobs. Assign one or more administrators (usually your change control administrators) to perform quality assurance and migration of definitions from test to production. Only these administrators should have read/write access to the production databases.

Backup and Recovery

The extent to which you provide backups depends upon the disaster recovery procedures at your site.

We recommend that the production databases be included in your normal daily and weekly (incremental and full) backups. In the event of a head crash or similar system failure, backups will allow you to recover the Definition and history databases at least to the state they had been in the night before the failure.

1. Type **ACRD** on the IBM i command line and press **Enter** to bring up ACR/Detail.
2. On the ACR/Detail Main Menu, select **5**=Environment Setup.
3. On the Environment Setup Menu, select **3**=Authorize Optional User Functions.

The Authorize Optional User Functions screen (EAUT) will appear. On this screen, you can authorize users to execute IBM i commands from any menu screen or Next Screen field. You can also authorize specific

users to run jobs online (the F20 option will display on screens where users can run a job online).

| mm/dd/yy 15:18:34 | | Authorize | ACR/D releasenumbr |
|-------------------|----------|-------------------------|--------------------|
| EAUT | | Optional User Functions | |
| User ID | Activate | Commands | Run Online |
| ACR | <u>Y</u> | | <u>Y</u> |
| QAUTPROF | <u>N</u> | | <u>N</u> |
| QBRMS | <u>N</u> | | <u>N</u> |
| QDBSHR | <u>N</u> | | <u>N</u> |
| QDFTOWN | <u>N</u> | | <u>N</u> |
| QDOC | <u>N</u> | | <u>N</u> |
| QDSNX | <u>N</u> | | <u>N</u> |
| QFIREWALL | N | | <u>N</u> |
| QFNC | <u>N</u> | | <u>N</u> |
| QGATE | <u>N</u> | | <u>N</u> |
| QIJS | <u>N</u> | | <u>N</u> + |
| Position to | _____ | Next Screen | _____ |
| F3=Exit | | | |

4. Authorize yourself and other users, as appropriate, to activate commands and run jobs online.
5. Press **Enter** to save your changes.
6. Press **F3** to exit.

Step 8: Specify User Options

ACR/Detail provides system-level “user options” for displaying currency amounts, negative numbers, and dates. These options can be modified to satisfy the reporting needs at your site. In addition, default output queue, job queue, and held job settings can be specified at the system level. The ACR/Detail system administrator can modify these options at any time. The options apply to all environments— they are not specific to the user or production environment. For more information, see the *ACR/Detail User Guide for IBM i*.

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Installation Steps

Installing ACR/Summary

Installation Steps

The following is an overview of the steps you must perform:

1. "Step 1: Review Space Requirements" in the next section.
2. "Step 2: Create ACR User Profile and Logon as ACR" on page 17
3. "Step 3: Perform the Installation" on page 18
4. "Step 4: Update the Control File" on page 19
5. "Step 5: Install Patches, If Necessary" on page 20
6. "Step 6: Test Your ACR/Summary Installation" on page 20
7. "Step 7: Set Up the Environment" on page 23
8. "Step 8: Specify User Options" on page 26
9. "Step 9: Restoring ACR Assure Gateway Java Program (Optional)" on page 26

Step 1: Review Space Requirements

Review the information in "System Requirements" on page 5.

Step 2: Create ACR User Profile and Logon as ACR

ACR/Summary objects are saved with PUBLIC *USE authority. They are owned by ACR. Before installation, it is necessary to create an ACR user profile with *USER rights. Notice in the example below that the authority created is *ALLOBJ. The *ALLOBJ authority is required only for installation. It is needed because the installation programs require authority to create and restore objects. When the installation is complete, the *ALLOBJ authority can be revoked.

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Installation Steps

For example:

```
CRTUSRPRF USRPRF (ACR)
USRCLS (*USER)
SPCAUT (*ALLOBJ *SAVSYS)
JOB (SUMMARY)
```

Note: The system message “Object Summary in library *LIBL not found” will appear. This informational message indicates that the specified job description for the user profile ACR does not currently exist. However, the user profile (ACR) is still created. The job description for the profile will be restored automatically with the product.

After you enroll User ID ACR in the system distribution directory, logon with User ID ACR.

Step 3: Perform the Installation

Perform the following steps:

1. Make sure you have a system backup before performing the installation.
2. Load ACR/Summary to the IBM i by mounting the installation CD-ROM or cartridge and typing the following command:

```
LODRUN DEV (*OPT)
```
3. When you install ACR/Summary, two main libraries are created. The default names and descriptions are as follows (see the note about renaming libraries below):
 - The program library, **SUMMARY**. This contains all of the programs and code for this release.
 - The program change library, **SUMMARYP**. This will be populated when you install any future patches (fixes and enhancements) for this release.

Note: About renaming libraries:

During the installation, you have the option of renaming the libraries. If you rename them, the new libraries need to have the same relationship as the original libraries and their names should be used in place of SUMMARY and SUMMARYP during the installation process.

For example, if you rename the SUMMARY and SUMMARYP libraries to SUM and SUMP, respectively, then you should use the SUM and SUMP libraries anywhere that SUMMARY and SUMMARYP are indicated during the installation procedure.

If libraries with these names already exist, they will be replaced.

4. Press **Enter** to install ACR/Summary.
After the LODRUN command finishes, check the Joblog for any problems..

Step 4: Update the Control File

The Infogix Control File controls licensing and several global options for ACR/Summary. Before you can run ACR/Summary, it is necessary to update the Control File. To do this, complete the steps below.

1. Execute the following commands:

```
ADDLIBLE SUMMARYP *LAST
ADDLIBLE SUMMARY *LAST
CALL CUPD
```

The ACR/Summary Installation Control File Update screen will appear.

| mm/dd/yy | 12:00:00 | ACR/Summary Installation | ACR/S releasenumbr |
|----------|----------|--------------------------|--------------------|
| CUPD | | Control File Update | |
| | | User Name: _____ | |
| | | Page Size: _____ | |
| | | Wait Time: _____ | |
| | | F3=Exit | |

2. For **User Name**, enter a user, group, department, or company name that should appear at the top of all ACR/Summary reports.
3. For **Page Size**, enter the number of report lines to print per page on ACR/Summary output reports. The default is 66 lines per page.
4. For **Wait Time**, enter the number of seconds the system should wait for a file that is already allocated. The default is 900 seconds.
5. Press **Enter** to update the Control File with your overrides and the license expiration date

Note: If you are running ACR/Summary during a trial period, the message, Product will expire in ___ days, will appear automatically on the Main Menu. If this message appears after the product has been purchased, call Customer Support using the information in “[Contacting Customer Support](#)” on page 5.

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Installation Steps

Step 5: Install Patches, If Necessary

Please log into our password-protected Web site at <http://www.infogix.com/support/default.asp> to download any available patches for this product. Patches come with installation instructions.

If you do not have Internet access, please contact Customer Support for assistance. See “Contacting Customer Support” on page 5.

Step 6: Test Your ACR/Summary Installation

To test your ACR/Summary installation, you will run two sample jobs and verify that they successfully produce several reports.

1. Execute the command CALL PRINTRPTS to create reports in the ACROUTQ output queue in the SUMMARY library.
2. Type **ACR** on the IBM i command line.
3. On the ACR/Summary Main Menu, select **1**=Job Definitions.
4. On the Job Definition Main Menu, select **1**=Basic Job Information.
5. On the Basic Job Information List, type **9**=Run Job next to JOBXYZ EDIT and press **Enter**.

The File Interface Interactive Mode screen (FINT) will appear.

6. If you will run the job in batch, change the **Job Queue**, **Output Queue**, and **Hold Job** options if they are not what you want.
7. Run the edit job twice, using consecutive cycle numbers (for example, 20111024 and 20111025). Press **Enter** to run it in batch, or **F20** to run online.

The job should generate the Balancing Control Report (ACRSCNTL) and Job Control Error Report (ACRSERROR) shown on the next two pages. The Balancing Control Report should look similar to the one

shown. The Job Control Error Report should show the job ran with "No Errors."

| ACR/S releasenumber | | BALANCING CONTROL REPORT | | PAGE 001 |
|--|---|---|----------------------|----------|
| DATE: dd/mm/yy | | Monthly File Edit System | | |
| TIME: 09.43.46 | | JOB=JOBXYZ | STEP=EDIT | QUAL= |
| | | CYCLE#=20110616 RUN#=001 | | |
| A. INTERNAL CONTROL ITEMS: | | | | |
| ITEM NO. | DESCRIPTION | INPUT | Right Heading | |
| I-001. | Input Transactions | | 9,867 | |
| I-002. | Valid Transactions | | 9,800 | |
| I-003. | Invalid Transactions | | 23 | |
| I-004. | Add Transactions | | 2,000 | |
| I-005. | Delete Transactions | 1,900 | | |
| I-006. | Change Transactions | 5,900- | | |
| I-007. | Calculated Rule Example | \$7,104.24- | CALCULATED | C-001 |
| B. EXTERNAL CONTROL ITEMS: | | | | |
| NONE. | | | | |
| C. CALCULATED ITEMS: | | | | |
| ITEM NO. | CALCULATION FORMULA | RESULT | CALC MESSAGE | |
| C-001. | -.72000 * I-001 | \$7,104.24- | | |
| D. BALANCING RULES & RESULTS: | | | | |
| RULE NO. | BALANCING RULE | RESULT | ERROR/TOLERANCE | |
| 1. | I-001 EQ I-002 + I-003 | OUT OF BALANCE | 44.00 | |
| 2. | I-002 EQ I-004 + I-005 + I-006 | OUT OF BALANCE | 11,800.00 | |
| 3. | 70.00000 EQ I-003 | OUT OF BALANCE | 47.00 | |
| 4. | IF R-001 OR R-002 TRUE THEN PROCESS R-003 | ACTION BYPASS | | |
| E. SPECIAL INSTRUCTIONS: | | | | |
| RULE NO. | RETURN CODE | INSTRUCTIONS | | |
| 1. | 3002 | Call George | | |
| 2. | 3002 | Call George | | |
| 3. | 0000 | NONE. | | |
| | | OUT OF BALANCE | (RETURN CODE = 3002) | |
| ENVIRONMENT LIBRARY: NEWLIB32 | | JOB START DATE=11/06/16 JOB START TIME=09.43.46 | | |
| Copyright Infoglix, Inc. | | | | |

| ACR/S releasenumber | | Job Control Error Report | | Page 1 |
|-------------------------|---------|--------------------------|--------------|--------|
| DATE: dd/mm/yy | | Monthly File Edit System | | |
| TIME: 09.43.46 | | Job ID=JOBXYZ | EDIT | |
| Message ID | Msg Sev | Msg Type | Message Text | |
| ----- | | | | |
| *** N O E R R O R S *** | | | | |

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8. On the Basic Job Information List, type 9=Run Job next to JOBXYZ UPDATE and press **Enter**.
The File Interface Interactive Mode screen (FINT) will appear.
9. If you will run the job in batch, change the **Job Queue**, **Output Queue**, and **Hold Job** options if they are not what you want. Use the cycle number that you used for the second run of JOBXYZ EDIT in step 7 on page 20.
10. Press **Enter** to run the job in batch, or **F20** to run online.
The job should generate the Balancing Control Report (ACRSCNTL) and Job Control Error Report (ACRSERROR) shown on the next two pages. The Balancing Control Report should look similar to the one shown. The Job Control Error Report should show the job ran with "No Errors."

| ACR/S releasenumber | | PAGE 001 | |
|---|--------------------------------|------------------------------|---------------------|
| DATE: 2014/07/11 | | COPYRIGHT INFOGIX, INC. 2014 | |
| TIME: 11:53:03 | | DATA BASE VERSION: / | |
| | | BALANCING CONTROL REPORT | |
| | | Monthly File Update System | |
| | | JOB=JOBXYZ STEP=UPDATE QUAL= | |
| | | CYCLE#=20111025 RUN#=000 | |
| A | | | |
| ITEM NO. | DESCRIPTION | Left Heading | Right Heading |
| I-001. | Old Master Records | 100,300 | |
| I-002. | New Master Records | 100,400 | |
| I-003. | Valid Transactions | | 9,800 |
| EXTENDED INTERNAL ITEMS: NONE. | | | |
| B. HISTORY ITEMS: | | | |
| ITEM NO. | JOB | STEP | QUAL |
| | | | ITEM |
| | | | CYCLE |
| | | | DESCRIPTION |
| | | | CYCLE# |
| | | | RUN# |
| | | | RUNDATE |
| | | | RUNTIME |
| | | | PROGRAM |
| | | | Left Heading |
| | | | Right Heading |
| E-001. | report total from previous day | | 9,867 |
| | JOBXYZ EDIT | I-001 -001 | |
| | | 20111024 000 | 2014/07/11 11:52:32 |
| E-002. | | | 2,000 |
| | JOBXYZ EDIT | I-004 -001 | |
| | | 20111024 000 | 2014/07/11 11:52:32 |
| E-003. | | | 1,900 |
| | JOBXYZ EDIT | I-005 -001 | |
| | | 20111024 000 | 2014/07/11 11:52:32 |
| C. CALCULATED ITEMS: | | | |
| ITEM NO. | CALCULATION FORMULA | | RESULT |
| | | | CALC MESSAGE |
| C001. | (I-001 + E-001) - (E-003) | | 108,267 |
| D. BALANCING RULES & RESULTS: | | | |
| RULE NO. | BALANCING RULE | | RESULT |
| | | | ERROR/TOLERANCE |
| 1. | (I-001) EQ (E-001) | | **OUT OF BALANCE** |
| 2. | (I-002) EQ (C-001) | | **OUT OF BALANCE** |
| | | | 90,433 |
| | | | 7,867- |
| E. MESSAGES: | | | |
| RETURN | | | |
| RULE NO. | CODE | INSTRUCTIONS | |
| | | | |
| 1. | 3021 | Call Sally ASAP | |
| 2. | 3022 | Call Tracy | |
| **OUT OF BALANCE** (RETURN CODE = 3022) | | | |
| INFOGIX DATABASE SUMMARY /UNIDF - SUMMARY /UNIHF | | | |
| PROGRAM= | | | |
| JOB START DATE=2014/07/11 JOB START TIME=11:53:03 | | | |

Step 7: Set Up the Environment

Note: Test and Production Databases: In most applications, several test libraries are established -- one for each user of ACR/Detail. Each library will have its own ACR/Detail databases created when it is defined in environment setup. However, you should normally have only one production database.

Create the User and Production Environments

After installing ACR/Summary, you need to create user and production environments. The user environment is for testing ACR/Summary jobs before moving them into production. The production environment is where all tested jobs will run.

Follow the procedure below to create the user environment. Then, repeat the procedure to create the production environment.

1. Execute the command **ADDLIBLE SUMMARYP *LAST**
2. Execute the command **ADDLIBLE SUMMARY *LAST**
3. Type **ACR** on the IBM i command line.
4. On the ACR/Summary Main Menu, select **5=Environment Setup**.
5. On the Environment Setup Menu, select **1=Environment Setup**.
The Environment Setup File Creation screen will appear. On this screen, you specify the name of an environment library to create. Then, you can run a job to create the library and several files required by ACR/Summary.

| | | | |
|--------------------------|----------------|----------------------|---------------------------|
| <i>mm/dd/yy</i> | 10:31:18 | Environment Setup | <i>ACR/S releasenumbr</i> |
| ENVC | | File Creation | |
| Library Name: _____ | | | |
| Create Definition Files: | 1 | 1=Yes, 2=No | |
| Create History File: | 1 | 1=Yes, 2=No | |
| Job Queue | Output Queue | Hold Job | |
| <u>QBATCH</u> | <u>PRT01</u> | <u>1</u> 1=Yes, 2=No | |
| F3=Exit | F20=Run Online | | |

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6. Enter a **Library Name** for the user or production environment library you want to create.
7. Accept **1=Yes** for **Create Definition Files**. The definition file will store ACR/Summary job and file definitions required to read inputs, extract and balance values, and produce reports.
8. Accept **1=Yes** for **Create History File**. This file will store all saved ACR/Summary values.
9. If you will create the environment files in batch, verify the following settings:
 - Job Queue**—The name of the job queue to use.
 - Output Queue**—Where to direct the Database Initialization Report output by the file creation job.
 - Hold Job**—2 will release the job immediately; 1 will hold it on the job queue.
10. Press **Enter** to run file creation in batch or **F20** to run online.

Repeat the steps above to create the production environment.

Set Up User Library Lists

The order in which libraries appear on the user and production library lists is important. The order of the libraries determines which files and programs are executed within a job run.

When executing ACR/Summary, your library list should look similar to the following:

```
QGPL
QTEMP
*****
User or Production Library (created in previous step)
*****
SUMMARYP
SUMMARY
```

Hints:

- Put QTEMP above SUMMARYP and SUMMARY.
- Put the user or production library anyplace above SUMMARYP.
- Put SUMMARY last.

Assign Privileges to Users

Note: Securing the Production Databases

We recommend that you take steps to secure your installation. At a minimum, protect the databases by allowing read-only access to the production database files for non-production jobs. Assign one or more administrators (usually your change control administrators) to perform quality assurance and migration of definitions from test to production. Only these administrators should have read/write access to the production databases.

Backup and Recovery

The extent to which you provide backups depends upon the disaster recovery procedures at your site.

We recommend that the production databases be included in your normal daily and weekly (incremental and full) backups. In the event of a head crash or similar system failure, backups will allow you to recover the Definition and history databases at least to the state they had been in the night before the failure.

1. Type **ACR** on the IBM i command line and press **Enter** to bring up ACR/Summary.
2. On the ACR/Summary Main Menu, select **5**=Environment Setup.
3. On the Environment Setup Menu, select **3**=Authorize Optional User Functions.

The Optional User Functions screen (EAUT) will appear. On this screen, you can authorize users to execute IBM i commands from any menu screen or Next Screen field. You can also authorize specific users

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to run jobs online (the F20 option will display on screens where users can run a job online).

| | | |
|-------------------|---------------------------|--------------------|
| mm/dd/yy 15:18:34 | ACR/Summary Authorization | ACR/S releasenumbr |
| EAUT | Optional User Functions | |
| <u>User ID</u> | <u>Activate Commands</u> | <u>Run Online</u> |
| ACR | <u>Y</u> | <u>Y</u> |
| QAUTPROF | <u>N</u> | <u>N</u> |
| QBRMS | <u>N</u> | <u>N</u> |
| QDBSHR | <u>N</u> | <u>N</u> |
| QDFTOWN | <u>N</u> | <u>N</u> |
| QDOC | <u>N</u> | <u>N</u> |
| QDSNX | <u>N</u> | <u>N</u> |
| QFIREWALL | <u>N</u> | <u>N</u> |
| QFNC | <u>N</u> | <u>N</u> |
| QGATE | <u>N</u> | <u>N</u> |
| QIJS | <u>N</u> | <u>N</u> + |
| Position to _____ | F3=Exit | New Screen _____ |

4. Authorize yourself and other users, as appropriate, to activate commands and run jobs online.
5. Press **Enter** to save your changes.
6. Press **F3** to exit.

Step 8: Specify User Options

ACR/Summary provides system-level “user options” for displaying currency amounts, negative numbers, and dates. These options can be modified to satisfy the reporting needs at your site. In addition, default output queue, job queue, and held job settings can be specified at the system level. The ACR/Summary system administrator can modify these options at any time. The options apply to all environments—they are not specific to the user or production environment. For more information, see the *ACR/Summary User Guide for IBM i*.

Step 9: Restoring ACR Assure Gateway Java Program (Optional)

ACR/Summary enables you to retrieve history from Infogix Assure. To retrieve Infogix Assure history, a jar file must be restored to the Unix side of IBMi.

Run the following command to restore the jar file:

```
RST DEV('qsys.lib/summary.lib/casifs.file')
OBJ((' /Infogix/ACRAssureGateway/' *INCLUDE 'Infogix/
ACRAssureGateway')) CRTPRNDIR(*YES)
```

If the installation path of the jar file is different from the default path '/Infogix/ACRAssureGateway', then the data area variable CADIRPTH must point to the new jar location.

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