

**precisely**

# ACR/Instream

Installation Guide for z/OS



# Notices

## Trademarks

Infogix, the Infogix logo, ACR, ACR/Detail, ACR/Summary, ACR/Workbench, ACR/Connector, Infogix Assure, Infogix Insight, ACR/Instream, ACR/File, Infogix ER, Infogix Perceive, Data3Sixty, and Data360 are registered trademarks of Precisely. Data3Sixty Analyze, Data3Sixty Govern, Data3Sixty DQ+, Data360 Analyze, Data360 Govern and Data360 DQ+ are trademarks of Precisely. Any other trademarks or registered trademarks are the property of their respective owners.



1700 District Ave Ste 300  
Burlington MA 01803-5231  
USA

[www.precisely.com](http://www.precisely.com)

Copyright 2014, 2024 Precisely

# Table of Contents

Who Should Use this Guide? .....	5
What's Covered in this Guide? .....	5
Other Sources of Information.....	6
Contacting Customer Support.....	6
ACR/Instream Knowledge Base .....	7
Overview .....	9
What You Should Know Before Starting.....	9
What Is the ACR/Instream Domain? .....	9
Message Construction and Transport Choices .....	11
ACR/Instream API Options .....	12
WebSphere MQ Message Relay Module and Communication Exits.....	14
Backup Domains and Load Balancing .....	14
Windows Rules Writing Tools.....	15
Reinstallation Considerations.....	16
z/OS Installation .....	17
System Requirements.....	17
Space Requirements for Domain Installation.....	18
What You Need to Know Before Starting.....	19
z/OS Installation for the ACR/Instream Domain .....	20
Accessing the Rules-Writing Tools.....	28
ACR/Instream Documentation Disk.....	29
Password Protection for Rules Files .....	29
About Database Support .....	29
Starting and Stopping the ACR/Instream Domain.....	31
What's Next? .....	32
z/OS Upgrades .....	33
System Requirements.....	33
z/OS Upgrade.....	34
Output Interface Installation .....	39
System Requirements.....	39
Output Interface Installation Considerations.....	40
What You Need Before Starting .....	42
Installing the ACR/Instream Interface on the Web Server.....	43
Installing the Output Interface on the Client .....	47
Upgrading the Output Interface .....	48
Disabling the Proxy Server Setup .....	49

Multi-Domain Communications .....	51
What You Need To Know Before Starting .....	51
Concurrent Backup Domain .....	52
Load Balancing.....	53
Set Up WebSphere MQ for the Domain Communications.....	54
ACR/Instream z/OS Libraries and Files .....	57
z/OS Libraries for ACR/Instream.....	57
z/OS Files for ACR/Instream .....	59

# Introduction

This guide provides the instructions and details required for the installation of the ACR/Instream software on z/OS. It includes instructions for installing the output interface on Windows Server.

## Who Should Use this Guide?

This manual is for programmers who are responsible for the installation or upgrade of the ACR/Instream software.

The instructions assume you've performed the application analysis steps described in the *ACR/Instream Implementation Guide*. Those steps provide the foundation for the software installation and controls design.

## What's Covered in this Guide?

The table below describes each chapter in this guide.

Chapter	Contents
Chapter 2,	Background information that helps you understand
Chapter 3, "z/OS Installation"	Step-by-step instructions for installing ACR/Instream on z/OS.
Chapter 4, "z/OS Upgrades"	Step-by-step instructions for installing upgrades to the ACR/Instream domain.
Chapter 5, "Output Interface Installation"	Step-by-step instructions for installing the ACR/Instream interface.
Chapter 6, "Multi-Domain"	Instructions for setting up multiple domains for running concurrent backup systems or for load balancing.
Chapter 7, "ACR/Instream z/OS Libraries and Files"	Summary information about the ACR/Instream z/OS libraries and files.

## Other Sources of Information

The table below describes additional ACR/Instream documentation.

Consult this document	For this type of information
<i>ACR/Instream Implementation Guide</i>	How to implement ACR/Instream. This guide also includes specific steps for the analysis phase of the implementation.
<i>ACR/Instream Controls Design Guide</i>	Detailed information about designing and writing controls using ACR/Instream Editor.
<i>ACR/Instream Programmer's Guide</i>	Detailed information about methods to send messages to ACR/Instream, the data dictionary, integrity message layouts, tuning, and testing the ACR/Instream design.  Administrative information about startup and shutdown, customizing, and recovery after abnormal termination.
<i>ACR/Instream Controls Design Tutorials for Windows</i>	Step-by-step instructions for creating and
<i>ACR/Instream Knowledge Base</i>	The Knowledge Base is a repository of all user information available for ACR/Instream.

---

## Contacting Customer Support

If you need assistance, contact Infogix Customer Support.

Support Phone: +1.630.505.1890

Support Email: [support@infogix.com](mailto:support@infogix.com)

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

Visit our Website: [www.infogix.com](http://www.infogix.com)

## ACR/Instream Knowledge Base

The ACR/Instream Knowledge Base is an HTML-based repository of all user information for ACR/Instream, plus samples and examples for downloading. The Knowledge Base launches in your default browser and provides standard browser-based searching capabilities so you can easily locate what you need.

The following describes some of the contents:

- All ACR/Instream manuals are available in PDF format. You can view these online or download to your PC and print.
- All ACR/Instream help files that are accessible from the user interfaces are also accessible as compiled help files that you can download. For example, the help file for the ACR/Instream Editor can be downloaded independently of the user interface.
- Specialized guides, such as the following:
  - *IIP Database Guide*
  - ACR/Instream Timer Utility User's Guide
  - ACR/Instream System Console XML Messages User's Guide
  - ACR/Instream Flat-File Reader User's Guide
- Implementation support provides instructions, samples, and other resources to assist you in implementing ACR/Instream.
- Jump start solutions include sample rules files that you can download to your PC and adapt for your application.
- FAQs about rules writing addresses common queries about using the ACR/Instream Editor to develop rules.
- FAQs about implementation addresses common queries about how to get ACR/Instream up and running.
- Sample message files can be downloaded and used immediately without coding.
- Troubleshooting helps solve common problems.

The Knowledge Base is available two ways. A CD-based version is shipped with the installation media. This CD launches the Knowledge Base as an HTML-based help system.

The Knowledge Base is also available on the Internet from the Infogix Product Support web page. Contact Product Support for information about obtaining access. See “Contacting Customer Support” on page 6.

## 1 ■ Introduction

*ACR/Instream Knowledge Base*

---

# Overview

This chapter provides background information on installation options from which you can choose. If you have not already done so, please read the *ACR/Instream Implementation Guide*. In that guide, you'll find application analysis steps that provide the foundation for installation.

## What You Should Know Before Starting

You should have the following information available from the application analysis, Step 4.

- Which business objects and applications are you going to control?
- Where are you going to install the ACR/Instream domain?
- What middleware are you going to use to transport messages? This determines which communication modules you choose to unload from the installation tape.
- Where are your data capture points? This determines where you will perform installation procedures for remote platform support.

Detailed information about the application analysis is in the *ACR/Instream Implementation Guide*.

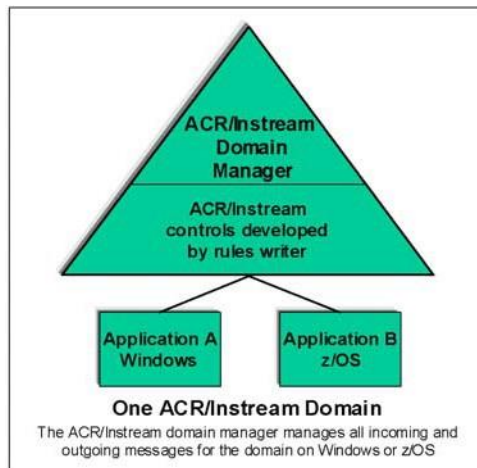
## What Is the ACR/Instream Domain?

The *ACR/Instream domain* refers collectively to ACR/Instream's internal servers, definition files, and the *ACR/Instream domain manager*.

## 2 ■ Overview

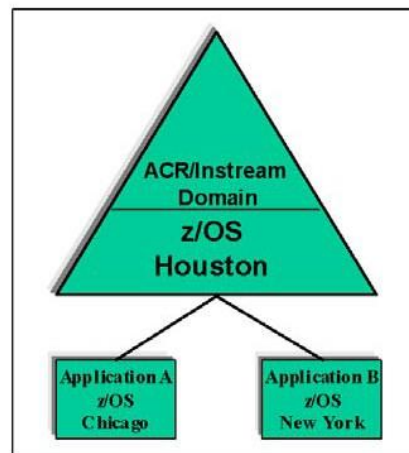
### *What Is the ACR/Instream Domain?*

The ACR/Instream domain manager manages all incoming and outgoing integrity messages for ACR/Instream servers. These messages come from your target application. The applications can be on any computer that can send messages using TCP/IP or middleware such as WebSphere MQ to the ACR/Instream domain manager.



The supported operating systems for the platforms are z/OS and Windows. The platform for the supported application can be different from the one on which ACR/Instream resides. For example, if your ACR/Instream domain is installed on z/OS, the supported applications can be on a different z/OS computer or on a Windows computer.

If your application is on a different platform from the ACR/Instream domain, you will need to install certain files or datasets and communication modules on that remote platform. In the graphic below, application A and application B are on different machines from the ACR/Instream domain:



## Message Construction and Transport Choices

To implement ACR/Instream, you need to make two choices:

- How to acquire the data and format it into an integrity message (message construction)
- How to transport that message to the ACR/Instream domain

This section describes these choices so you can make the appropriate decisions while performing the installation instructions.

### Constructing the Integrity Messages

There are two basic methods to acquire data and format integrity messages:

- Use the ACR/Instream application program interface (API) and communication exit, which work with code you add to your application. This method works with TCP/IP and WebSphere MQ.

An API is a software routine that calls services that transport data across a network. It constructs an integrity message from the data provided from the application, and sends the message to ACR/Instream. More information about this option is in “ACR/Instream API Options”.

- Use existing WebSphere MQ messages. If your site uses WebSphere MQ to transport messages that contain the data needed by ACR/Instream, you can use Infogix’s WebSphere MQ message relay module, called MQPROBE, and the communication exits to capture the data and format a message.

More information about this option is in “WebSphere MQ Message Relay Module and Communication Exits”.

### Transporting the Messages

To transport messages between an application and the ACR/Instream domain, you have these options:

- Use a pretailored WebSphere MQ message relay module (named MQPROBE) and its associated communication exits.

If your choice for constructing messages (described in the previous section) is to use WebSphere MQ messages, then this transport method is the practical choice.

However, this choice also works with the ACR/Instream API for those sites that have WebSphere MQ in place but do not want to use existing messages.

- Use pretailored communications modules and communication exits for TCP/IP.

This method is the practical choice for sites that do not use WebSphere MQ.

- Use prototype modules and tailor them to your middleware.

This method is the choice for sites that intend to use the ACR/Instream API to create the messages, but do not intend to use TCP/IP or WebSphere MQ to transport the message.

The instructions in this manual assume you will use the pretailored modules. To tailor the prototype modules, please contact Infogix.

The modules that support transporting messages are required for both the ACR/Instream domain and for the supported application. For the supported application, follow the appropriate instructions in this manual entitled “Application API Support Installation.” Middleware types for all communication modules and the ACR/Instream domain must be the same. For example, if platform A uses WebSphere MQ, then platform B must also use WebSphere MQ.

## **ACR/Instream API Options**

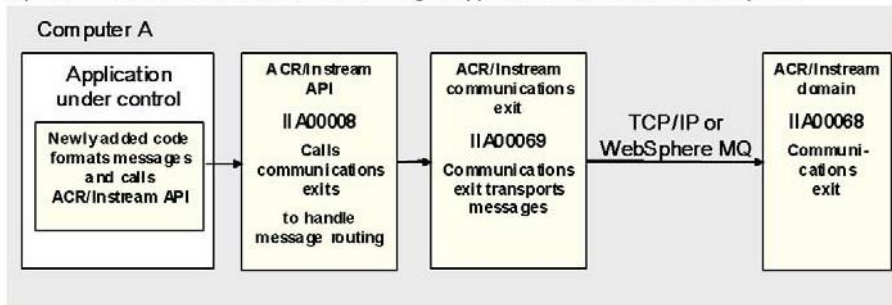
The ACR/Instream API (module IIA00008) takes the data from your application and calls the ACR/Instream communication exits to handle the message routing to the ACR/Instream domain. The options that use the API require the addition of code to your application. That code formats an integrity message and calls the ACR/Instream API (IIA00008). The ACR/Instream API then calls the communication exits to handle the message routing.

Two ACR/Instream API options are available, depending on your implementation, as described below.

## ACR/Instream API Option 1: All Components on One Computer

The diagram below shows an ACR/Instream installation with all components on a single computer.

Option 1: ACR/Instream domain and target application on the same computer

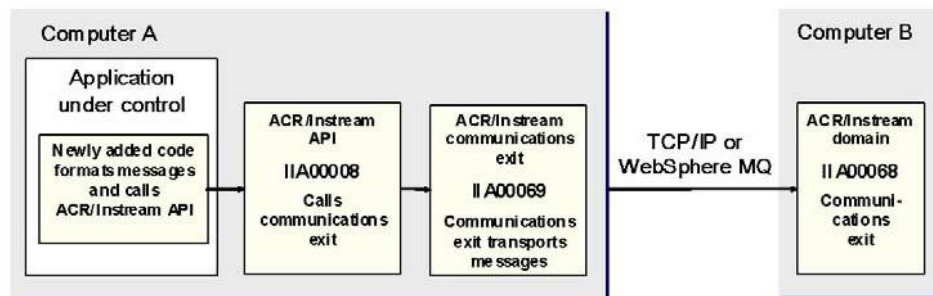


If your ACR/Instream implementation is contained on a single platform, all required modules are included in an ACR/Instream domain installation. After you complete the instructions in this manual, you will need to add code to your application to work with the API support files. Detailed information about adding the ACR/Instream API to your application is in the *ACR/Instream Programmer's Guide*.

## ACR/Instream API Option 2: Components on Two Computers

The diagram below shows the ACR/Instream domain installed on a computer separate from the application that is the target of control:

Option 2: ACR/Instream domain and target application on separate computers



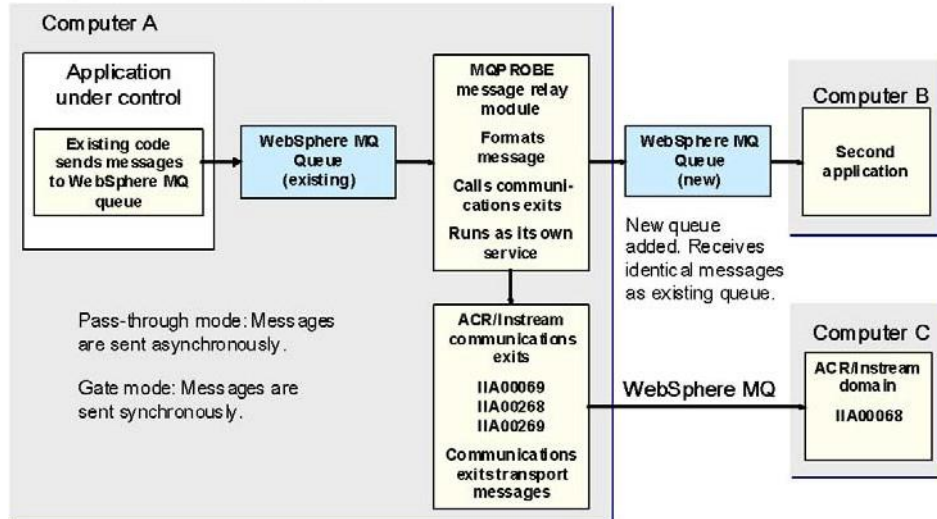
The above configuration requires the installation of application API support for each application that is located on a different computer. The location for the application API support in this case is Computer A because it is on a different computer from the ACR/Instream domain.

## WebSphere MQ Message Relay Module and Communication Exits

If your application already uses WebSphere MQ middleware to transport messages, you can implement a WebSphere MQ message relay module (MQPROBE) and its associated communication exits to capture data, format a message, and transport it to the ACR/Instream domain. The ACR/Instream domain can be on the same or another computer.

This option does not require adding code to your application. It does require installing the message relay module and the addition of a new WebSphere MQ queue.

WebSphere MQ message relay module and ACR/Instream communications exits



More information about using the WebSphere MQ Message Relay Module is available through Customer Support.

## Backup Domains and Load Balancing

ACR/Instream provides the ability to forward integrity messages from one domain to another. This feature assists those ACR/Instream sites that need to maintain a redundant or fail-over backup domain. This feature can also be used to forward integrity messages to another domain for additional processing, freeing up the primary domain for incoming integrity messages.

This feature is available only if you configure both the sending and the receiving domain for WebSphere MQ communications.

Full setup instructions are in “Multi-Domain Communications”.

## Windows Rules Writing Tools

The rules writing tools are graphical user interfaces that are installed on Windows only. The Windows installation includes the following user interface components:

- ACR/Instream Editor for writing rules
- ACR/Instream Player for testing rules
- ACR/Instream Data Dictionary
- ACR/Instream DB Params Encryptor
- ACR/Instream Connection Editor for defining and selecting middleware connections
- ACR/Instream Timer Editor for creating timer sets
- ACR/Instream Calendar Maker
- ACR/Instream Configuration File Editor for customizing your implementation

You do not need the ACR/Instream domain on Windows to use the rules writing tools. Your Windows installation media includes the appropriate setup program for your site. For example, if you intend to use the ACR/Instream domain on Windows as well as the user interface, then your installation media will include both.

If your Windows installation includes only the user interfaces, you will need to transfer completed rules files to the platform on which you install the ACR/Instream domain.

## Reinstallation Considerations

This section provides a list of the typical files that could be affected by reinstallation of ACR/Instream. This list does not apply to upgrading ACR/Instream from one release to another. Upgrade instructions are provided in the appropriate chapter in this guide.

### **Function Table Update File (funcupdt.iat on Windows and FUNCUPDT on z/OS)**

If you customized the funcupdt.iat file, you must repeat the customizing after reinstalling ACR/Instream. After customizing the funcupdt.iat file, you must update the function table. See your *ACR/Instream Programmer's Guide*.

### **Report Header Files (rptmsgs.ieu on Windows and RPTMSGs on z/OS)**

If you changed the headers on the ACR/Instream Integrity Check report or the Extraction Error report by modifying the report header files, you need to repeat the modification process. See your *ACR/Instream Programmer's Guide*.

# z/OS Installation

This chapter explains how to install ACR/Instream on your z/OS system.

## System Requirements

The table below describes the system requirements for a z/OS installation. Newer versions may also be supported. Contact Customer Support for additional information.

<b>System Requirements for Domain on z/OS</b>	
<b>Requirement</b>	<b>ACR/Instream Domain</b>
Operating system	IBM z/OS 2.2
Space requirements	See “Space Requirements for Domain Installation”
Database	DB2 Enterprise Server Edition
Database disk space	See “Database Space Allocation”
Communications	TCP/IP or WebSphere MQ

<b>System Requirements for Rules Writing Tools</b>	
<b>Requirement</b>	<b>Tools Only</b>
Hardware and operating system	IBM or compatible machine with Windows OS
Disk Space	A hard drive with at least 55 MB of free space
Drive	CD-ROM
Java	Java Runtime Environment (JRE) 1.8

## Space Requirements for Domain Installation

The table in this section lists the recommended DASD space requirements for a new installation of an ACR/Instream domain. Your actual requirements depend on the following:

- Number of rules created by all rules writers
- Number of components in those rules, such as the number of request definitions
- Number of data dictionaries
- Number of global elements

Infogix recommends periodically evaluating your datasets as you increase the number of rules. When your rules are complete, you can also evaluate the space requirements to determine if any can be reduced.

Each dataset name can be qualified with additional levels of prefixes to satisfy your naming conventions. During the tape unloading process, additional datasets will be unloaded. If they are not in the table below, they are not required after installation is complete.

Datasets Required for Installation for Single-Platform Installation							
Dataset Name	Type	RECFM	LRECL	BLK-SIZE	Space (TRKS) PRI	SEC	DIR
LOADLIB	PO	U		13030	100	25	90
PROCLIB	PO	FB	80	9040	5	2	10
COPYLIB	PO	FB	80	15440	5	2	10
DATALIB	PO	FB	255	2550	5	2	10
DBRMLIB	PO	FB	80	23440	20	20	15
IIAWARM	PS	FB	80	9040	2	2	0
IIACONFG	PS	FB	80	9040	2	2	0
IIAIGR	VSAM		1000		30	1	0
IIARQR	VSAM		1000		3 cyl	1	0
IIAMSGS	VSAM		256		20	5	0
IIADEBUG	PS	FB	80	9040	5	2	0
JCLLIB <sup>1</sup>	PO	FB	80	9040	5	2	10

Datasets Required for Installation for Single-Platform Installation							
Dataset Name	Type	RECFM	LRECL	BLK-SIZE	Space (TRKS) PRI	SEC	DIR
IIATIMER	PDS	VB	32104	32108	10	5	5
IIALOG <sup>2</sup>	PS	VB	32104	32108	100	100	0
IARLOG <sup>2</sup>	PS	VB	32104	32108	5	2	0
IAPLOG <sup>2</sup>	PS	VB	32104	32108	5	2	0
IASYNCA <sup>2</sup>	PS	VB	16696	16700	5	2	0
IASYNCB <sup>2</sup>	PS	VB	16696	16700	5	2	0
IIAVT	VSAM	VB	768, 32298		30	30	0
IIAENV	PS	FB	80	9040	1	1	0
IIAEXRPT <sup>3</sup>	PS	FB	133	1330	5	2	0
IARPTA <sup>3</sup>	PS	FB	133	1330	5	2	0
IARPTB <sup>3</sup>	PS	FB	133	1330	5	2	0
SRCELIB.zzz	PO	FB	80	9040	5	2	10
IIAIGLIB	PO	FB	255	2550	20	20	15

<sup>1</sup>You can substitute your own JCL library.  
<sup>2</sup>Increase space requirements as needed. These logs increase in size during ACR/Instream operation.  
<sup>3</sup>These are report files. An alternative is to specify SYSOUT.

## What You Need to Know Before Starting

This section lists the decisions you should make before installing the software. Instructions for your choices are included in the appropriate sections.

The following describes the information you must have before starting the steps in the next section.

- The database must be located on the same platform as the ACR/Instream domain.
- Scripts are provided to create the table spaces and the tables.
- An authorized DB2 administrator must perform the steps that create the database tables and table spaces.
- For WebSphere MQ sites: Queues must be defined as shareable. Note that the default value for queues on z/OS is NOSHARE.

## z/OS Installation for the ACR/Instream Domain

This section includes instructions for installing the ACR/Instream domain on a z/OS system for new customer sites. All JCL has comments to assist you in editing it. Please read the comments carefully to locate all JCL that requires editing.

### Task 1: Install the ACR/Instream Domain

**This task must be performed by a z/OS system admin.**

Perform the steps in “Installing from Tape” or “Installing from a CD”, as appropriate.

#### Installing from Tape

Follow this procedure to install from a tape.

1. Review DASD requirements.
2. Unload the UNI.INSTREAM.PROCLIB dataset from the distribution tape.

Below is sample JCL for unloading. This procedure library is the first file on your distribution tape.

```

-----1-----2-----3-----4-----5-----6-----7-
-
//*****
//*
//*           JCL STATEMENTS TO COPY UNI.PROCLIB           *
//*                                                                 *
//*****
//UNLOAD   EXEC PGM=IEBCOPY
//SYSPRINT DD  SYSOUT=*
//SYSUDUMP DD  DDNAME=UNI.INSTREAM.PROCLIB,
//IN1     DD  DISP=OLD,
//        UNIT=3480,VOL=SER=TTTTT,
//        LABEL=(1,SL,EXPDT=98000)
//OUT1    DSN=XXXXXXXX.PROCLIB,
DD        DISP=(NEW,CATLG,DELETE),
//        UNIT=DISK,VOL=SER=DDDDDD,
//        SPACE=(TRK,(5,2,10)),
//        DCB=(RECFM=FB,LRECL=80,BLKSIZE=9040,DSORG=PO
//        )
//SYSIN   DD  *
          COP

```

3. Unload the remainder of the tape by customizing and executing the UNLOAD member in the PROCLIB.

4. Continue with [step 7](#).

### Installing from a CD

Follow this procedure to install from a CD. You will need to transfer the files from your PC to your mainframe.

The CD contains a file named **INSTREAM.XMI**.

1. Review DASD requirements. See “Space Requirements for Domain Installation” on page 18.
2. Allocate space for the transfer file.  
The file uses approximately 400 tracks on a 3390 device, so you may need to override the default for your file transfer program. Allocate Secondary space as 50, 3390 disk tracks. (Similar to SPACE=(TRK,(400,50)) in JCL). If possible, use your file transfer program to allocate this space.

3. Using the file transfer program of your choice (most 3270 emulators use IND\$FILE), perform a **binary** transfer of the INSTREAM.XMI file from the PC to your mainframe, forcing the following parameters:

LRECL=80,BLKSIZE=3120,RECFM=FB

You can use the default file name (INSTREAM.XMI) or change it to the data set name of your choice.

Unpack the file by entering the following TSO command:RECEIVE INDS('userid.INSTREAM.XMI')

where *userid* is your TSO logon ID, and INSTREAM.XMI is the default data set name.

TSO will prompt you to enter a data set name. Press **Enter** to accept the default.

- 
- Notes:** ■ The userid.INSTREAM file you just created is a PDS containing XMIT files.  
■ The TSO RECEIVE command has no relationship to the SMP/E command also known as RECEIVE.
- 

If you get an error message indicating that this file is invalid, ensure that the file was transferred in binary format with no translation and no carriage returns.

4. Receive the files one at a time, as shown in the following list:

```
RECEIVE INDS('userid.INSTREAM(COPY)') will create
'userid.INSTREAM.COPYLIB' by default.
RECEIVE INDS('userid.INSTREAM(CTCP)') will create
'userid.INSTREAM.CSRCELIB.TCP' by default.
RECEIVE INDS('userid.INSTREAM(CTCPH)') will create
'userid.INSTREAM.CSRCELIB.TCPH' by default.
RECEIVE INDS('userid.INSTREAM(DATA)') will create
'userid.INSTREAM.DATALIB' by default.
RECEIVE INDS('userid.INSTREAM(DBRM)') will create
'userid.INSTREAM.DBRMLIB' by default.
RECEIVE INDS('userid.INSTREAM(HTCP)') will create
'userid.INSTREAM.H.TCP' by default.
RECEIVE INDS('userid.INSTREAM(TIME)') will create
'userid.INSTREAM.IIATIMER' by default.
RECEIVE INDS('userid.INSTREAM(LMQS)') will create
'userid.INSTREAM.LOADLIB.MQS' by default.
RECEIVE INDS('userid.INSTREAM(LSERV)') will create
'userid.INSTREAM.LOADLIB.' by default.
RECEIVE INDS('userid.INSTREAM(LTCP)') will create
'userid.INSTREAM.LOADLIB.TCP' by default.
RECEIVE INDS('userid.INSTREAM(LHOST)') will create
'userid.INSTREAM.LOADLIB.TCPHOST' by default.
RECEIVE INDS('userid.INSTREAM(OTCP)') will create
'userid.INSTREAM.OBJLIB.TCP' by default.
RECEIVE INDS('userid.INSTREAM(PROC)') will create
'userid.INSTREAM.PROCLIB' by default.
RECEIVE INDS('userid.INSTREAM(SMQS)') will create
'userid.INSTREAM.SRCELIB.MQS' by default.
RECEIVE INDS('userid.INSTREAM(STCP)') will create
'userid.INSTREAM.SRCELIB.TCP' by default.
```

5. Rename any files, if desired.
6. Delete the *userid.INSTREAM* and *userid.INSTREAM.XMI* files.

#### **New Infogix sites only**

7. Edit and submit the member UNICNTL in the PROCLIB. This JCL creates the Infogix control file.

---

**Note:** If you are an existing Infogix customer, your control file is created and you can skip this step. All Infogix z/OS software uses the same VSAM KSDS control file.

---

8. Authorize your ACR/Instream license using the steps below.  
You authorize your license through the Infogix control file. For new Infogix sites, this is the file you created in the previous step. For existing Infogix customers, such as ACR/Summary or ACR/Detail customers, this is your existing control file.
  - a. Edit and submit UNI10PR. This member prints the contents of the Infogix control file and lists the CPU IDs for the machines in your system.
  - b. Print the UNILST and UNIREPT reports from the output listing.

- c. Call Customer Support. They will provide you with the appropriate instructions to receive the password based on your license agreement. Call (630) 505-1890 or email Customer Support at [support@infogix.com](mailto:support@infogix.com).

When you receive the email with the password, continue with the next step.

- d. Access the UNICF50 JCL member in the installed UNI.INSTREAM.PROCLIB dataset.

Press F8 to scroll down to the bottom of the UNICF50 member. The location where the control card(s) and password need to be pasted is highlighted in the following example:

```
000023 //UNICMD DD *
000024 AAAA CE AAAA AAAAA AAAAA
000025 PW AAAA AAAAAAAAAA AAAAA
000026 // *
000027 //
***** ***** Bottom of Data
*****
```

**Excerpt from UNICF50 JCL Member. The A's indicate where control cards and password need to be pasted.**

---

**Note:** The example above shows a default (new) control file. If the control file was updated previously, it will show actual control card(s) and a password.

---

- e. Paste in the new control card and password using one of the following methods:
- For a new control file that is being updated for the first time, copy and paste the new control card and password from the email from Customer Support.
  - For a control file that has already been updated at least once, replace all of the old control cards and the old password with the new control cards and password.

---

**Note:** For Infogix customers that use a single control file for multiple licenses: You must specify the location of this control file when you complete "Task 3: Complete the Domain Installation"

---

- f. Submit the JCL to update the control file with the new licensing information.
- g. After the job completes, review the UNIFAX DDNAME in the output listing. If the update completed successfully, this report should contain the message UPDATE COMPLETE.

### 3 ■ z/OS Installation

#### *z/OS Installation for the ACR/Instream Domain*

---

9. Edit and submit JCL member IMFILES in the unloaded PROCLIB. This JCL creates the remaining ACR/Instream files.

Note that the performance of ACR/Instream can be affected by the disk pack on which the datasets reside. If your message volume is high—more than 100 transactions per second—consider placing the IIALOG and IIAPLOG datasets on separate disk packs.

When the IMFILES JCL completes successfully, your sysout will have the following message:

```
#UIIA00506-001 FILE STATUS 34 ENCOUNTERED - TERMINATING  
SUCCESSFULLY.
```

You might also receive a B37 (out of space) code for STEP1 and STEP3. This code is a normal consequence of fully formatting the new IIALOG and IIAPLOG.

10. Edit the environment file you selected in the previous step. You must have a tailored environment file to work with your communications. The type of environment file (WebSphere MQ or TCP/IP) and its location was defined in IMFILES. When you executed IMFILES, your selected environment file was copied to the location you specified by editing the JCL. For instructions on editing IIAENV, read the comments in the file.

### **Task 2: Create DB2 Database Tables and Table Spaces**

These steps create DB2 tables and table spaces to support the Export Domain Data action and the output interface.

**This task must be performed by a DB2 database admin.**

1. Edit and execute the BLDDDB script in the PROCLIB to create a new database named IIP or any other name for your site standards. The remaining documentation assumes the name IIP. If you choose a different name, substitute that name as necessary.
2. Identify the storage groups to be used in this installation.

3. Create the tables and tablespaces:
  - a. Edit and execute the BLDTS script to create the table spaces. BLDTS is located in the ACR/Instream PROCLIB. Follow the instructions in the comments to add the database name and storage group names. The following table provides guidelines for storage group allocation:

Table Space Name	Buffer Pool Allocation Pool size/Page Size	Table Space Allocation Primary/Secondary
DOMAINTS	4K	4K/4K
DOMELTS	4K	4K/4K
IGTS	4K	4000K/150K
RIDTS	4K	8K/4K
IGELEMETS	4K	8K/4K
ITEMIDTS	32K	50000K/25000K
DOMELVTS	4K	100K/50K
EXPORTTS	32K	50000K/25000K
EXPTRGTS	4K	8K/4K
EXPTUSTS	4K	100K/50K
EXPTIRTS	4K	100K/50K
IGVALTS	32K	50000K/25000K
DEFNTS	32K	50000K/25000K
VIEWTS	32K	50000K/25000K

- b. Edit and execute the BLDTBLS script to create the tables. BLDTBLS is located in the ACR/Instream PROCLIB. Follow the instructions in the comments to add the database name and storage group names.
4. Edit and execute the BIND JCL to bind the plan. BIND is located in the ACR/Instream PROCLIB. Follow the instructions in the comments to define the high-level qualifiers and plan name.

Your IIP database is now functional. The ACR/Instream rules writers, however, must configure their rules to enable the writing to the database and create new rules.

## Task 3: Complete the Domain Installation

Now that the database installation is complete, you have the information you need to finish the domain installation.

**This task must be performed by a z/OS system admin.**

1. Edit member IMDOMAIN. This editing updates all dataset names with your qualifiers.

**Existing Infogix customers, such as ACR/Summary or ACR/Detail customers:** You must edit the UNICF DD statement to point to the location of your existing control file for the UNICF DD statement. The following statement shows the default in IMDOMAIN:

```
//UNICF DD DSN=&HLQ2..&MLQ2..UNICF,DISP=SHR
```

After editing, your DD statement will point to your existing control file. Your statement will look similar to the following:

```
//UNICF DD DSN=UNI.RELnn.UNICF,DISP=SHR
```

---

**Note:** If you want to disable the permanent logging feature, edit the IMDOMAIN IIPLOG DD statement. Specify the DD DUMMY JCL and a block size of 32108 before submitting the jobs.

---

2. Edit and submit JCL member FILEINIT in the unloaded PROCLIB. This JCL performs the following:
  - Loads the function table into IIPARQ
  - Loads IIPMSG, the report messages file
  - Initializes IIPAGR, the item group file
3. Edit the configuration parameters following the steps below:

---

**Note:** The editing of configuration parameters is typically the responsibility of an ACR/Instream administrator as the parameters affect all users of ACR/Instream. If necessary, ask your ACR/Instream administrator to perform this step.

---

These steps can be deferred to a later date. Your ACR/Instream domain will function with the default configuration parameters; however, the writing of data by the Export Domain Data action to the database will not be enabled until you follow these steps.

- a. Locate your configuration file on z/OS. The location of this file was defined in the IMFILES JCL that was submitted during installation. The DDNAME is IIPACONFG.
- b. Copy this file to the Windows PC where your tools are installed. Name the file iiaconfg.dat

- c. Select Start > All programs > Infogix > ACR/Instream > ACR Instream Configuration File Editor and open the iiaconfig.dat file you saved in the previous step.
- d. Edit the **ACR/Instream domain name**. This parameter will assist you in identifying a test domain or a production domain in the future. It also displays in the output interface.
- e. Change the value of the “Do you have an IIP database?” parameter to Yes.
- f. Edit the **Action for an IIP database error**. This parameter will specify a shutdown of the ACR/Instream domain when a database error is encountered.  
Specify SHUTDOWN or CONTINUE.
- g. Change any other parameters at this time. For example, you can specify currency symbols, date separates, and number punctuation.
- h. Copy the configuration file back to z/OS and use it to replace the one you located in step b.

Your ACR/Instream installation is now fully functional on z/OS. To test your installation, follow the instructions in “Starting and Stopping the ACR/Instream Domain” on page 31.

## Task 4: Application API Support Installation

For each application that your domain will support, you must install the necessary APIs and communication modules. See [“Message Construction and Transport Choices”](#) for more information.

Infogix provides the files and communications modules for various environments and in several languages.

These files, modules, and their instructions are obtainable by downloading from the ACR/Instream Knowledge Base. The Knowledge Base is on the Infogix Customer Support web site. Use the following instructions to locate what you need for your applications:

1. Enter [www.infogix.com](http://www.infogix.com) in your browser to display the Infogix home page.

2. Follow the instructions on the web site for obtaining a customer support login ID for ACR/Instream. Be sure to select ACR/Instream as a licensed product. When Customer Support provides you with your login ID and password, continue with the next step.

---

**Notes:** If you already have a Customer Support login ID, you will need to have ACR/Instream added as a licensed product before continuing. Email Customer Support at support@infogix.com with your request.

---

3. Navigate to the ACR/Instream support page.
4. Select Knowledge Base from the support page.
5. Navigate to the download center and select the API of your choice. Instructions are provided with the download.

#### Task 5: Install the ACR/Instream Web-Based Output Interface

These instructions are for installing [ACR/Instream Interface on the Web Server](#)

#### Task 6: Install the Rules-Writing Tools

These instructions are for installing the rules-writing tools only on a Windows PC.

1. Place the ACR/Instream tools installation CD into your CD drive. The installation program will automatically execute if your system is configured for automatic execution.  
If it does not launch, click Run on the Start menu. Enter [drive:]\SetupInterface.exe in the dialog box where [drive] is the letter of your CD drive. The setup program will start.
2. Follow the instructions on the screen to complete the setup. You will be prompted if a reboot is required.

### Accessing the Rules-Writing Tools

To access any ACR/Instream Rules-Writing tool, follow the appropriate procedure below.

**Start menu**—Click Start, then select Programs > Infogix > ACR Instream > *name of tool*.

**Application folder**—Click the ACR Instream folder on your desktop. Then double click the name of the tool you want to access.

After rules are written, they must be copied to the computer where the z/OS domain is installed and then loaded into the domain using a utility.

Instructions for using the rules-writing tools and loading the rules are in the *ACR/Instream Controls Design Guide* and online Help.

## ACR/Instream Documentation Disk

ACR/Instream documentation is shipped on a separate disk. When you insert the CD, the HTML-based documentation will launch in the PC's default browser. For more information, see "Other Sources of Information".

## Password Protection for Rules Files

You can protect your rules from unauthorized modifications by selecting the rules encryption option and then assigning a password.

To invoke this option, perform the following steps:

1. Launch the ACR/Instream Editor by clicking the desktop icon or by selecting Start > Infogix > ACR/Instream > ACR/Instream Editor.
2. Select Options > Configure ACR/Instream Editor. This launches the ACR/Instream Customization Wizard.
3. Select Enable encryption of rules, and then click Finish.
4. Save your rules file. You will be prompted to provide a password when you save the rules file and reopen it.

If you forget your password, call Infogix Customer Support for assistance.

## About Database Support

The DB2 database tables are for supporting the Export Domain Data action and the ACR/Instream interface. The Export Domain Data action allows you to send the results of rules to a database. The ACR/Instream interface is a web-based application that permits you to monitor ACR/Instream processing in real-time.

## Database Space Allocation

The recommended size of the initial database is 5 MB to 10 MB. Your actual requirements depend on your usage to support the Export Domain Data action and the ACR/Instream interface. Review the section below to estimate your space requirements.

### Database Space Allocation for the Export Domain Data Action

Your actual space requirements depend on the following:

- Number of rules that use the Export Domain Data action that sends the data to the database.
- Quantity of data sent by each Export Domain Data action.
- Frequency of Export Domain Data action execution.
- Frequency with which you delete accumulated data and reports.

Infogix recommends monitoring the database usage and increasing space as necessary or adjusting your maintenance policy. Infogix also recommends you establish a policy for data and report retention so ACR/Instream users will understand the data is not available indefinitely.

### Database Space Allocation for the ACR/Instream Interface

Your actual space requirements depend on the following:

- Number of views that are created for all users of the ACR/Instream interface.
- Amount of data each view needs.

Infogix recommends monitoring the database usage and increasing space as necessary or adjusting your maintenance policy.

## Database Maintenance Requirements

To support your maintenance requirements, the rules writer can mark individual records, known as item IDs, as being available for archiving or deleting. This is performed with an option available for the Purge Item IDs action.

Details are in the *ACR/Instream Programmer's Guide* along with complete descriptions of the columns and tables.

**About COMMITs**

COMMITs for the Export Domain Data tables are automatically performed when ACR/Instream performs a syncpoint (an ACR/Instream function related to recovery). The database administrator needs to work with the ACR/Instream administrator to determine the frequency and method of syncpoints. More information is in the *ACR/Instream Programmer's Guide*.

**Starting and Stopping the ACR/Instream Domain**

Starting and stopping the ACR/Instream domain is performed through an ACR/Instream function contained in JCL that you submit.

**Starting ACR/Instream**—To start ACR/Instream, edit and submit member RUNIM. Follow the instructions in the member.

---

**Note:** The PROGPARM parameter in the RUNIM JCL cannot be blank. If it is, you will receive a 0016 return code when you submit the JCL. If your PROGPARM looks like the following:

```
//    PROGPARM=' '
```

then edit the PROGPARM to look like the following:

```
//    PROGPARM=""
```

The above is the default for the warm startup mode. An alternative is a cold start. See the instructions for the ACR/Instream administrator in the *ACR/Instream Programmer's Guide*.

---

**Rules Definition File Integrity Check**—ACR/Instream automatically performs an integrity check of the entire rules definition file at startup. This check detects inconsistencies in references between certain rules components.

All rules (all item groups) are checked at the same time. Broken references result in the following message:

```
UIIA00087-001 [TIMESTAMP]IG XXX IS MARKED AS UNUSABLE
```

If the item group named in this message is not currently used, no action is required. If the item group named is needed for production, it must be repaired before you continue. After making the repair, reload the rules file using the run65 member. More information about this report is in the *ACR/Instream Controls Design Guide*.

**Stopping ACR/Instream**—To stop the ACR/Instream domain, edit and submit member SHUTDOWN.

## What's Next?

If this completes the software installation for your site, the next phase is design. See your *ACR/Instream Implementation Guide* for information about how the programmer participates in the design phase.

# z/OS Upgrades

This chapter explains how to upgrade to the new release.

## System Requirements

The table below describes the system requirements for a z/OS installation. Newer versions may also be supported. Contact Customer Support for additional information.

<b>System Requirements for Domain on z/OS</b>	
<b>Requirement</b>	<b>ACR/Instream Domain</b>
Operating system	IBM z/OS 2.2
Space requirements	See “Space Requirements for Domain Installation”
Database	DB2 Enterprise Server Edition
Database disk space	See “Database Space Allocation”
Communications	TCP/IP or WebSphere MQ

<b>System Requirements for Rules Writing Tools</b>	
<b>Requirement</b>	<b>Tools Only</b>
Hardware and operating system	IBM or compatible machine with Windows OS
Disk Space	A hard drive with at least 55 MB of free space
Drive	CD-ROM
Java	Java Runtime Environment (JRE) 1.8

# z/OS Upgrade

This section provides instructions for upgrading ACR/Instream on z/OS.

## Task 1: Install the Domain

**This task must be performed by the z/OS system admin**

Please read System Requirements before using these instructions.

---

**Important:** These instructions assume you are unloading the PROCLIB into a different location from your current test environment.

The steps describe how to use the unloaded datasets to upgrade your existing datasets in the test environment. This preserves your existing PROCLIB and other important files, such as the environment files.

The remainder of these instructions refers to the *current* ACR/Instream as the target for the upgrade. The source for the upgrade will be acquired from the *unloaded* dataset.

---

Now perform the steps in “Installing from Tape” or “Installing from a CD”, as appropriate.

### Installing from Tape

Follow this procedure to install from a tape.

1. Review the DASD requirements, as they have increased from the previous release.
2. Unload the UNI.IM.PROCLIB dataset from the distribution tape into a location separate from your current ACR/Instream.

Below is sample JCL for unloading. This procedure library is the first file on your distribution tape.

```

-----1-----2-----3-----4-----5-----6-----7--
//*****
//*                                     *
//*      JCL STATEMENTS TO COPY UNI.PROCLIB      *
//*                                     *
//*****
//UNLOAD EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//IN1 DD DSN=UNI.IM.PROCLIB,
//      DISP=OLD,
//      UNIT=3480,VOL=SER=TTTTTT,
//      LABEL=(1,SL,EXPDT=98000)
//OUT1 DD DSN=XXXXXXXXX.PROCLIB,
//      DISP=(NEW,CATLG,DELETE),
//      UNIT=DISK,VOL=SER=DDDDDD,
//      SPACE=(TRK,(5,2,10)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=9040,DSORG=PO)
//SYSIN DD *
        COPY INDD=IN1,OUTDD=OUT1
/*

```

3. Unload the remainder of the tape by customizing and executing the UNLOAD member in the PROCLIB.
4. Continue with step 1 below.

### Installing from a CD

Follow this procedure to install from a CD. You will need to transfer the files from your PC to your mainframe.

The CD contains a file named **INSTREAM.XMI**.

1. Perform a normal shutdown of the ACR/Instream domain in your current test environment.
2. Make a backup of your current ACR/Instream test environment.
3. Allocate space for the transfer file.  
The file uses approximately 400 tracks on a 3390 device, so you may need to override the default for your file transfer program. Allocate Secondary space as 50, 3390 disk tracks. (Similar to SPACE=(TRK,(400,50)) in JCL). If possible, use your file transfer program to allocate this space.
4. Using the file transfer program of your choice (most 3270 emulators use IND\$FILE), perform a **binary** transfer of the INSTREAM.XMI file from the PC to your mainframe, forcing the following parameters:  
LRECL=80,BLKSIZE=3120,RECFM=FB  
You can use the default file name (INSTREAM.XMI) or change it to the data set name of your choice.

5. Unpack the file by entering the following TSO command:  
RECEIVE INDS('userid.INSTREAM.XMI')  
where *userid* is your TSO logon ID, and INSTREAM.XMI is the default data set name.  
TSO will prompt you to enter a data set name. Press **Enter** to accept the default.

---

**Notes:** ■ The *userid.INSTREAM* file you just created is a PDS containing XMIT files.  
■ The TSO RECEIVE command has no relationship to the SMP/E command also known as RECEIVE.

---

If you get an error message indicating that this file is invalid, ensure that the file was transferred in binary format with no translation and no carriage returns.

6. Receive the files one at a time, as shown in the following list:  
RECEIVE INDS('userid.INSTREAM(COPY)') will create 'userid.INSTREAM.COPYLIB' by default.  
RECEIVE INDS('userid.INSTREAM(CTCP)') will create 'userid.INSTREAM.CSRCELIB.TCP' by default.  
RECEIVE INDS('userid.INSTREAM(CTCPH)') will create 'userid.INSTREAM.CSRCELIB.TCPH' by default.  
RECEIVE INDS('userid.INSTREAM(DATA)') will create 'userid.INSTREAM.DATALIB' by default.  
RECEIVE INDS('userid.INSTREAM(DBRM)') will create 'userid.INSTREAM.DBRMLIB' by default.  
RECEIVE INDS('userid.INSTREAM(HTCP)') will create 'userid.INSTREAM.H.TCP' by default.  
RECEIVE INDS('userid.INSTREAM(TIME)') will create 'userid.INSTREAM.IIATIMER' by default.  
RECEIVE INDS('userid.INSTREAM(LMQS)') will create 'userid.INSTREAM.LOADLIB.MQS' by default.  
RECEIVE INDS('userid.INSTREAM(LSERV)') will create 'userid.INSTREAM.LOADLIB' by default.  
RECEIVE INDS('userid.INSTREAM(LTCP)') will create 'userid.INSTREAM.LOADLIB.TCP' by default.  
RECEIVE INDS('userid.INSTREAM(LHOST)') will create 'userid.INSTREAM.LOADLIB.TCPHOST' by default.  
RECEIVE INDS('userid.INSTREAM(OTCP)') will create 'userid.INSTREAM.OBJLIB.TCP' by default.  
RECEIVE INDS('userid.INSTREAM(PROC)') will create 'userid.INSTREAM.PROCLIB' by default.  
RECEIVE INDS('userid.INSTREAM(SMQS)') will create 'userid.INSTREAM.SRCELIB.MQS' by default.  
RECEIVE INDS('userid.INSTREAM(STCP)') will create 'userid.INSTREAM.SRCELIB.TCP' by default.
7. Rename any files, if desired.
8. Delete the *userid.INSTREAM* and *userid.INSTREAM.XMI* files.
9. Edit IMDOMAIN to update all dataset names with your existing qualifiers, as appropriate. For example, you could edit the JCL to point to your existing rules dataset.

**If you have other Infogix Products installed such as ACR/Detail or ACR/Summary:** You must edit the UNICF DD statement to point to the location of your existing control file for the UNICF DD statement. The following statement shows the default in IMDOMAIN:

```
//UNICF DD DSN=&HLQ2..&MLQ2..UNICF, DISP=SHR
```

After editing, your DD statement will point to your existing control file. Your statement will look similar to the following:

```
//UNICF DD DSN=UNI.RELnn.UNICF, DISP=SHR
```

10. Update the report headers. ACR/Instream Release 5.4 and later includes changes to the report headers.
  - a. Copy the member RPTMSGs from the newly unloaded DATALIB to the current DATALIB, overwriting the existing member.
  - b. Edit the member RPTMSGs in the current DATALIB to customize the new report headers, if necessary.

This file contains the headers for reports. You can edit these headers so they use your company name or use a different language. Maximum for any heading is 133 characters.

Do not change any RPTMSGs file contents to the left of a semicolon or any symbolic parameter, which is identified by the vertical bars, such as | SYS DATE |.

The following shows an example:

```
SHORT= DATE: |SYS DATE|                ACR/Instream
SHORT= VERSION:|VERSION|
SHORT= TIME: |SYS TIME|                RULES DEFINITION FILE INTEGRITY REPORT
SHORT= =
```

In this example, you could type over “ACR/Instream” to include your company’s name or department name.

- c. Edit the RUN56 JCL in the current PROCLIB to point to LOADMSG in the newly unloaded DATALIB.
- d. Submit the JCL. This loads the new report headers into ACR/Instream’s report messages file.

## Task 2: Upgrade the Rules-Writing Tools

These instructions are for upgrading the rules-writing tools on a Windows PC.

1. Insert the ACR/Instream CD into your CD drive. The installation program will automatically execute if your system is configured for automatic execution.

If it does not launch, click Run on the Start menu. Enter [drive:]\Setup.exe in the dialog box where [drive] is the letter of your CD drive. The setup program will start.

2. Follow the instructions on the screen to complete the setup. You will be prompted if a reboot is required.

### **Task 3: Setup Multi-Domain Communications (Optional)**

ACR/Instream 5.4 and later support multi-domain communications, also known as message forwarding. To implement this, you must follow the setup requirements described in the *ACR/Instream's Programmer's Guide*.

# Output Interface Installation

This chapter explains how to install the ACR/Instream web-based interface. This chapter includes the following information:

These instructions apply to sites using either TCP/IP or WebSphere MQ for communications. Follow the appropriate instructions.

## System Requirements

The table below describes the system requirements for a Windows installation for the ACR/Instream interface. Newer versions may also be supported. Contact Customer Support for additional information.

System Requirements	
<b>Server operating system</b>	Windows Server 2003 or later
<b>Web server</b>	Tomcat 5.5.9 Java Runtime Environment (JRE) 1.8 DB2 JDBC driver (supplied with web application)

## 5 ■ Output Interface Installation

### *Output Interface Installation Considerations*

---

#### System Requirements

**Client hardware and operating system** IBM or compatible machine with Windows OS  
Java Runtime Environment (JRE) 1.8

**Database** DB2 on Windows Server or z/OS.  
A database on z/OS requires DB2 Connect to be installed on the Windows Server where the web application is installed. It also requires a jar file supplied by DB2 Connect as described in step 9 under [Installing the ACR/Instream Interface on the Web Server](#).

**Network Communications** TCP/IP or WebSphere MQ, either MQ Client or MQ Server.

---

## Output Interface Installation Considerations

This section contains information to assist you in making decisions regarding installation locations and other requirements.

### Database Requirements

The ACR/Instream output interface uses a database to store view definitions. The DB2 database must be located on the same platform as the ACR/Instream domain.

### Web Server Requirements

The ACR/Instream output interface web application can be installed on any Windows Server where Tomcat is installed; it does not have to be on the same computer as where the ACR/Instream domain is installed.

### Security for the Output Interface

Security is provided by your existing network infrastructure. Make sure the Tomcat server is accessible to all users of the output interface.

### Communication Requirements

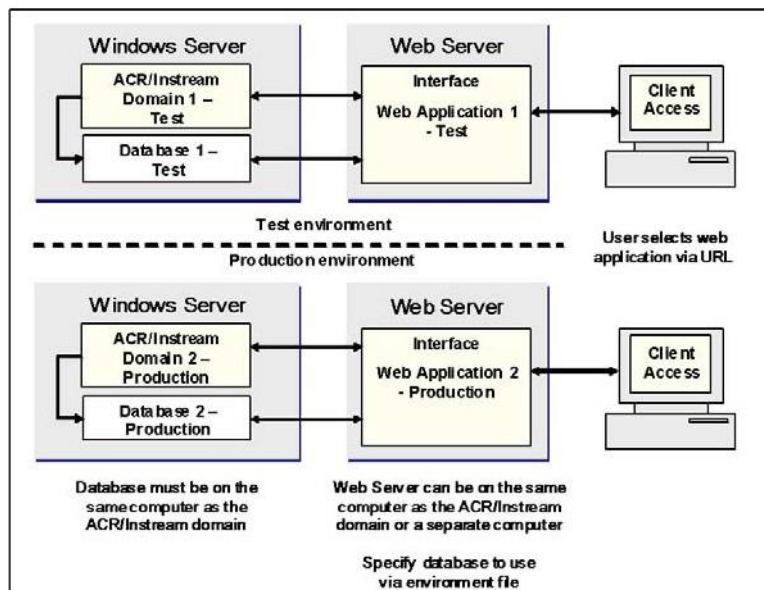
The ACR/Instream interface uses either TCP/IP or WebSphere MQ for communications. The ACR/Instream domain can use only TCP/IP or WebSphere MQ, not both.

If your domain uses TCP/IP for message transport, you must use TCP/IP for the output interface communications. If your domain uses WebSphere MQ for message transport, you must use WebSphere MQ for the output interface.

## Test and Production Environments

To maintain separate environments for test and production, install two instances of the ACR/Instream interface on your web server.

To select a test or production environment, the user specifies the appropriate URL when accessing the ACR/Instream interface. When the views are tested and the user wishes to move the views into production, the DBA must use the database facilities to move the views from the test database to the production database.



## Run-Time Performance Considerations

Once views are created, they can be run in real-time. Each graphical component is assigned a refresh rate. That is the rate at which the client software requests an update of current data from the domain.

For example, if a graphical component is created to monitor the number of transactions, the view refresh rate determines how often the domain is queried for the current count.

There is no limit on the number of views that can be created that can query the domain. The minimum refresh rate for each graphical component is one second.

## 5 ■ Output Interface Installation

---

### *What You Need Before Starting*

Users should set the refresh rate at whatever is reasonable for the application. For example, if the data being queried changes every 120 seconds, the refresh rate can be set to 125 seconds. Setting the refresh rate lower would result in unnecessary queries. Potentially, if a significant number of views are running and querying the domain continuously, the domain would experience a lag time in responding to the view and in processing the data.

The point at which your implementation might experience a lag time in processing and responding to views depends on the following:

- The number of views running concurrently and the number of graphical components per view
- The density of information (such as the number of elements) built into each component of each view
- The refresh rate for all graphical components
- The design of the view components to either match an item ID or find all matching a “starts with” specification, similar to a wild card match. Searching all memory requires more processing.
- The number of transactions being processed by the domain
- The number of rules executed for each transaction

## What You Need Before Starting

The following tasks must be completed before performing the installation on the web server.

- The DB2 tables for the output interface need to be created as described in the installation chapter.
- If your DB2 database is located on z/OS, you must have DB2 Connect installed on the Windows Server where you are installing the ACR/ Instream web application. DB2 Connect will pass the data through to the database on z/OS.

You will need to create an alias using IBM’s DB2 Configuration Assistant as part of the instructions.

- You will need the following information about the database:
  - Database name. If your database is on z/OS, this will be the alias you create in DB2 Connect.
  - Database login and password. If your database is on z/OS, these will be the login and password on z/OS.

- Database IP address. If your database is on z/OS, this will be the IP address of DB2 Connect.
- You will need ACR/Instream domain IP, host name, and port number to complete the web application installation:
- If you choose to use WebSphere MQ server for communications, you can use a local WebSphere MQ server or a remote server. Create or identify before installation:
  - Queue Manager
  - Server connection channel
  - Two queues for sending and receiving domain requests
 These queues must be defined as shareable. Note that the default value for queues on z/OS is NOSHARE.

## Installing the ACR/Instream Interface on the Web Server

This section provides instructions for installing the ACR/Instream interface on a Windows Server. Installation uses a .war file to install on the web server.

**These steps must be performed by a web admin**

1. Obtain the following information to use in subsequent steps:
  - Database name, login, and password
  - Database IP address
  - ACR/Instream domain IP, host name, and port number
2. For WebSphere MQ sites only: Identify the queue manager, server connection channel, and queues for sending and receiving. These queues must be defined as shareable. Note that the default value for queues on z/OS is NOSHARE.
3. For databases on z/OS only: Create an alias for the database using IBM's DB2 Configuration Assistant.
4. Obtain the ACR/Instream installation CD from the Windows Server administrator.

## 5 ■ Output Interface Installation

### *Installing the ACR/Instream Interface on the Web Server*

---

5. Insert the ACR/Instream CD into your CD drive. The installation program will automatically execute if your system is configured for automatic execution.  
If it does not launch, click Run on the Start menu. Enter [drive:]\Setup.exe in the dialog box where [drive] is the letter of your CD drive. The setup program will start.
6. Follow the instructions on the screen to complete the setup. You will be prompted if a reboot is required.  
Select only the ACR/Instream Web Application and Interface from the Installation Wizard.  
For the web application, select No for desktop shortcuts.
7. WebSphere MQ sites only: Start the WebSphere MQ manager, channel, and listener, if they are not already started.
8. Stop the Web server.
9. DB2 on z/OS sites only: If your database is located on z/OS, copy the JDBC license jar file from the DB2 Connect installation folder to the Tomcat shared/lib folder.  
The name of the license jar file is db2jcc\_license\_cisuz.jar. The usual location is the following:  

```
C:\Program Files\IBM\SQLLIB\Java
```

No changes are necessary after you have completed the copy.
10. WebSphere MQ sites only: Copy all files from the MQ Client or Server java\lib folder into the Tomcat shared\lib folder. The usual location for the MQ lib folder is the following:  

```
C:\Program Files\IBM\WebSphere MQ\Java\lib
```
11. Copy acrinstream.war from the ACR/Instream installation folder to the tomcat/webapps folder. The default installed location for this file is:  

```
\Infogix\acr_instream\acrinstream.war
```

This location is referred to as *webappslocation* in the remaining steps.
12. Start or restart the Web server.  
The .war file will automatically uncompress, placing the components of ACR/Instream on the server machine.
13. Edit the jdbc.properties file. The default installed location for this file is:  

```
\webappslocation\acrinstream\WEB-INF\jdbc.properties
```

  - a. Substitute your database host name for HOST in the following parameter:  

```
jdbc.url=jdbc:db2://HOST:50000/DATABASE
```

If your database is on z/OS, use the host name for DB2 Connect.

*Installing the ACR/Instream Interface on the Web Server*

b. Substitute your port number for 50000 if you are not using the default of 50000. If your database is on z/OS, use the port for DB2 Connect.

c. Substitute your database name for DATABASE.  
If your database is on z/OS, use the alias you specified in DB2 Connect.

d. Substitute your database user name for USERNAME in the following parameter:

```
jdbc.username=USERNAME
```

If your database is on z/OS, use the user name for the z/OS database, not a local database.

e. Substitute your database password for PASSWORD in the following parameter:

```
jdbc.password=PASSWORD
```

If your database is on z/OS, use the password for the z/OS database, not a local database.

The defaults are preconfigured for use with the ACR/Instream web application. Read the comments in the file for instructions.

14. Edit the instream.properties file. The default location for this file is the following:

```
\webappslocation\acrinstream\WEB-INF\instream.properties
```

The table below describes the parameters that require tailoring.

Parameter	Required?	Description
IIACOMMTYPE	Tailoring required for all sites	Specify WebSphere MQ or TCP.
IIAHOST	Tailoring required for TCP/IP sites	Enter your domain host name for HOST.
IIAPORT	Tailoring required for TCP/IP sites	Enter your domain port number for PORT.
IIAMAXW	Tailoring optional	Enter the number of seconds to wait for a domain response before timing out.
IIARETRY	Tailoring optional	Enter the number of times the application will retry on an attempted connection.
IIATRANSACTION	Tailoring optional	Specifies the maximum number of times to attempt to send and receive a message to/from the domain.

## 5 ■ Output Interface Installation

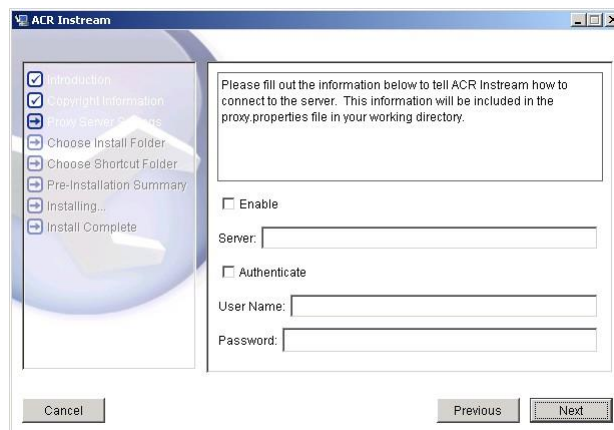
### *Installing the ACR/Instream Interface on the Web Server*

Parameter	Required?	Description
MQHOST	Tailoring required for WebSphere MQ sites	Specifies the name of the server hosting the WebSphere MQ server.
MQPORT	Tailoring required for WebSphere MQ sites	Specifies the WebSphere MQ port.
MQHOSTCHANNEL	Tailoring required for WebSphere MQ sites	Specifies the WebSphere MQ server channel to use when communicating with the WebSphere MQ server.
MQHOSTQMGRNAME	Tailoring required for WebSphere MQ sites	Specifies the WebSphere MQ queue manager name.
MQHOSTQUEUE	Tailoring required for WebSphere MQ sites	Specifies the queue name used by the ARC/Instream domain for receiving requests.
MQCLIENTQUEUE	Tailoring required for WebSphere MQ sites	Specifies the queue name used to receive responses from the ACR/Instream domain.
MQMAXW	Tailoring optional for WebSphere MQ sites	Specifies the number of seconds to wait for an ACR/Instream domain response before timing out.
MQMAXWCNT	Tailoring optional for WebSphere MQ sites	Specifies the number of times to attempt a read from the response queue.
IIAMAXITEMIDLIST	Tailoring optional for WebSphere MQ sites	Specifies the maximum number of item IDs returned to users when a query is made of current item IDs in memory.
pool.maxConnect	Tailoring optional	Enter the maximum number of concurrent user sessions.
pool.maxWait	Tailoring optional	Enter the number of seconds to wait before the application will retry on an attempted connection.
pool.maxIdle	Tailoring optional	Specifies the number of domain connections to keep when the web application is idle.

15. Test your implementation by starting acrinstream in your Tomcat Manager. Then enter the address of the ACR/Instream web application in your browser. You should see ACR/Instream links.

When you see the links, it completes the installation of the ACR/Instream web application. Each user, however, must complete the client installation on their PC using the information you provide in the next step.

16. Provide each ACR/Instream interface user with the URL of the web application and ask them to complete the instructions in "Installing the Output Interface on the Client Output Interface on the Client". If you are using a proxy server, you will need to provide users with information about it. As part of the client installation, the following dialog box will be displayed:



You must tell your users which fields, if any, to complete. If you are not using a proxy server, the users can leave all fields blank and click Next.

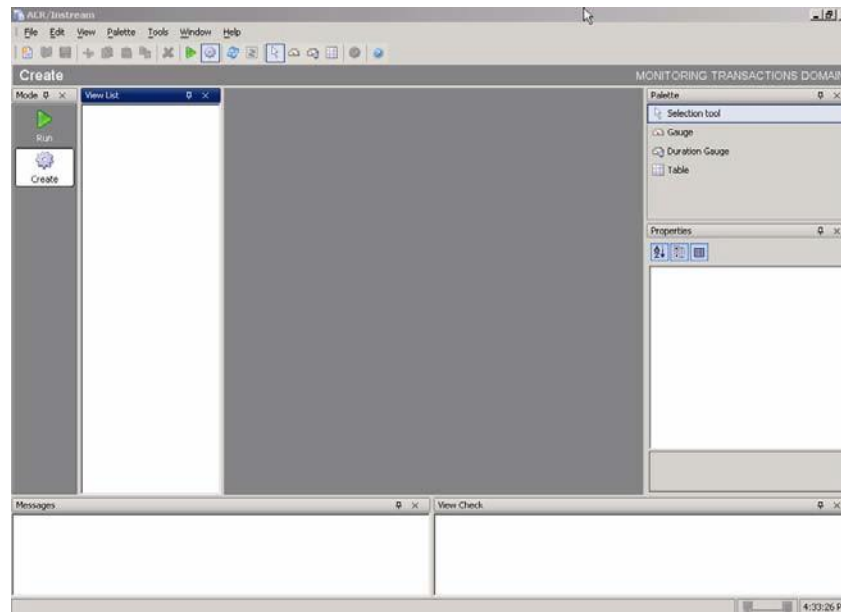
## Installing the Output Interface on the Client

This section provides instructions for installing the ACR/Instream interface on a client PC.

1. Obtain the ACR/Instream web application URL from the individual who installed the web application.  
Your web administrator will tell you before you start if you are to complete the proxy server setup. If you must complete the proxy server setup, the web administrator must provide you with the necessary information to complete the installation.
2. Enter the ACR/Instream URL in your browser. You will see ACR/Instream links in the screen.

## 5 ■ Output Interface Installation

3. Click ACR/Instream GUI Installer. This will launch the installation wizard. Follow the instructions to complete the setup. When the setup is complete, go on to the next step.
4. Launch the output interface by selecting Start, and then selecting ACR/Instream from the Programs menu. The full path is the following:  
Start > Programs > Infogix > ACR Instream > ACR Instream
5. Click Connect in the window that opens. You will see the following screen:



This screen is where you both create and run views.

This completes the output interface installation. Instructions for creating views are in the online Help.

## Upgrading the Output Interface

Use these instructions to upgrade to the current release.

1. Save the jdbc.properties file and instream.properties file to a temporary location.
2. Insert the ACR/Instream CD into your CD drive. The installation program will automatically execute if your system is configured for automatic execution.  
If it does not launch, click Run on the Start menu. Enter [drive:]\\Setup.exe in the dialog box where [drive] is the letter of your CD drive.
3. Follow the instructions on the screen to complete the setup. You will be prompted if a reboot is required. Select only the ACR/Instream Web Application and Interface from the Installation Wizard. For the web application, select No for desktop shortcuts.

---

**Disabling the Proxy Server Setup**

4. Stop the web server.
5. Delete the existing acrinstream.war file and acrinstream folder in the tomcat/webapps folder.
6. Copy the new war file from the ACR/Instream installation folder to the tomcat/webapps folder.
7. Restart the web server to uncompress the war file.
8. Stop the web server.
9. Copy the jdbc.properties file and instream.properties file from their temporary location back to the WEB-INF folder, which is located within the web service folder.
10. Restart the web server.
11. Ask your users to uninstall the output interface on their PCs and then reinstall using the instructions in “Installing the Output Interface on the Client” on page 48.

## Disabling the Proxy Server Setup

If you installed the output interface on the client using the proxy server selections and subsequently choose not to use a proxy server, you must manually disable support for it. Edit the file proxy.properties in the following folder on the client:

```
c:\Program Files\Infogix\ACR Instream
```

Change the following parameter from TRUE to FALSE:

```
proxy.enable=true
```



# Multi-Domain Communications

Multi-domain communications consists of the forwarding of integrity messages from one domain to another. Message forwarding can be used for the following:

- Providing a concurrently running domain as a backup system
- Providing load balancing between two domains for performance gains

This chapter provides setup instructions for multi-domain communications.

## What You Need To Know Before Starting

The list below describes those things you need to know before starting.

- Both the sending domain and the receiving domain, must be configured for WebSphere MQ middleware communications.
- Multi-domain communications can be implemented at any time. You can return to these instructions after fully implementing your primary domain with your customized rules.
- Message forwarding does not forward setup or configuration changes from one domain to another. If your secondary domain is a backup domain, you must manually update with all required rules, tables, timers, etc.
- Each domain uses its own file set, including its own configuration file and rules file.
- A backup domain should not also be used for load balancing.
- The sending domain, referred to as the primary domain, must be operated in remote mode. Using the ACR/Instream Player, for example, will not result in messages being forwarded to a secondary domain as it uses local mode exclusively.

Remote mode means commands are routed through middleware. More information about remote mode and local mode is in the *ACR/Instream Programmer's Guide*.

## Concurrent Backup Domain

This section describes how to setup a backup domain to run concurrently with a production domain by enabling message forwarding.

After performing these procedures, you must load the same rules file used to load the primary domain. This loading of rules file must take place after all rules are written and tested. You can perform these setup procedures now, however, to prepare for the rules loading.

### Procedures for a Concurrent Backup Domain

Follow these steps to implement message forwarding to maintain a concurrent backup domain.

1. Install both the primary (sending) and the secondary (receiving) domains. Follow the appropriate instructions in the *ACR/Instream Installation Guide for Windows* or the *ACR/Instream Installation Guide for z/OS*.
2. Locate your configuration file as described below for your operating system:  
**z/OS domains only:** Copy your configuration file for the primary domain to the Windows XP PC where the ACR/Instream rules writing tools are installed. The DDNAME of the configuration file is IIACONFIG. The location of this file was defined in the IMFILES JCL that was submitted during installation.  
**Windows domains only:** The file is named iiaconfig.dat. It is located in the following folder:  
`c:\Program Files\Infogix\ACR Instream\Domain\Files`
3. Choose Start > All Programs > Infogix > ACR Instream > ACR Instream Configuration File Editor.
4. Select the configuration file you located in step 2 in the dialog box that opens.
5. Locate the parameter for message forwarding. The identifier for this parameter is *Should this domain forward integrity check messages to another domain?*.
6. Set this parameter to Yes and save the configuration file.
7. **z/OS domains only:** Copy your configuration file back to the original location on z/OS.

8. Define the appropriate environment file parameters for the primary domain so the messages can be sent to the secondary domain via WebSphere MQ.

These parameters are:

**IIAPASSTHRUHOST**—Specifies the queue name for the ACR/Instream host that will receive the messages.

**IIAPASSTHRUQMGR**—Specifies the queue manager of IIAPASSTHRUHOST.

See “Set Up WebSphere MQ for the Domain Communications” on page 54 for information about locating the environment file and how to edit it.

When you start your primary domain in remote mode, all incoming integrity messages will be automatically forwarded to the secondary domain.

## Load Balancing

This section describes how to set up a secondary domain to perform additional or off-line processing, thus increasing the volume capacity of the primary domain.

### Procedures for a Load Balancing Domain

Follow these steps to implement multi-domain communications for maintaining a concurrent backup domain.

1. Install both the primary (sending) and the secondary (receiving) domains. Follow the appropriate instructions in the *ACR/Instream Installation Guide for Windows* or the *ACR/Instream Installation Guide for z/OS*.
2. Define the appropriate environment file parameters for the primary domain so the messages can be sent to the secondary domain via WebSphere MQ.

These parameters are:

**IIAEXTINSHOST1**—Specifies the queue name for the target that will be used when specifying the option of “Another ACR/Instream Domain” for an Export Domain Data action.

**IIAEXTINSQMGR1**—Specifies the queue manager of IIAEXTINSHOST1.

See "Set Up WebSphere MQ for the Domain Communications" below for information about locating the environment file and how to edit it.

3. Write the rules that will export the integrity messages using the ACR/Instream Editor.

These rules must include an Export Domain Data action with a specified destination option of "Another ACR/Instream Domain."

See the ACR/Instream Editor online Help for instructions.

## Set Up WebSphere MQ for the Domain Communications

These steps enable the domain to receive messages and to communicate with the output interface.

**These steps must be performed by your WebSphere MQ expert**

1. Copy all .dll (dynamic link library) communication files from the WebSphere MQ bin to the ACR/Instream bin.

The default location of the .dll files to copy is the following:

```
c:\Program Files\Infogix\ACR Instream\mware\MQ\server\bin  
or
```

```
c:\Program Files\Infogix\ACR Instream\mware\MQ\client\bin
```

All files in the above folder must be copied to the ACR/Instream bin folder to replace the existing .dlls.

The default location for the ACR/Instream bin is the following:

```
c:\Program Files\Infogix\ACR Instream\bin
```

2. Create the following in WebSphere MQ Explorer for both the PC and the server:

Queue Manager

Queues (IIAHOST and IIACLIENT)

Channels (sender, receiver, and server connection)

3. Locate the WebSphere MQ environment file and open it in a text editor, such as Notepad. The name and default location is the following:

```
c:\Program Files\Infogix\ACR Instream\Domain\Files\iiaenv.mqs
```

*Set Up WebSphere MQ for the Domain Communications*

4. Tailor the parameters to work with your WebSphere MQ setup. Do not change the format of the file. The following table describes each parameter.

Environment File Parameters	Description
IIAMAXW	Specifies the maximum wait period, which is used to determine how long to wait for a reply on my reply queue. It is in thousandths of a second. So 1000 = 1 second. -1 (entered as 0000000j) means wait forever. Once the time is expired, you can decide what to do, including wait again based on the MAX WAIT PARM.
IIAMAXWCNT	Specifies the number of times that the IIAMAXW parameter can be used before detecting an error. The combination of this parameter and the IIAMAXW parameter can be tuned to balance performance against a reasonable amount of total wait time. 00000000 and 00000001 will both result in one IIAMAXW interval.
IIAHOST	Specifies the input queue for the ACR/Instream domain and the output queue for the application API. On the ACR/Instream domain side, this queue is local queue. On the application API side, this queue is remote queue, pointing to the IIAHOST on the domain computer.
IIAHOSTQMGRNAME	Change to the queue manager name of the machine where the
IIMSHOST	Reserved for future use.
IIACLIENT	Specifies the output queue for the domain and the input queue for the application API. On either the ACR/Instream domain side or
IIAHOSTNAME	Specifies the host to connect to.
IIAPORT	Specifies the port to connect to WebSphere MQ.
IIASVRCHL	Specifies the case-sensitive name of the server connection channel on the queue manager.
IIAUSERHOSTDEF	Specifies the queue name for the default user program. This is the target that will be used when specifying the option of “Non-ACR/Instream External Target” for an Export Domain Data action.
IIAUSERQMGRDEF	Specifies the queue manager for IIAUSERHOSTDEF.
IIAEXTINSHOST1	Specifies the queue name for the target that will be used when specifying the option of “Another ACR/Instream Domain” for an Export Domain Data action.

## 6 ■ Multi-Domain Communications

### Set Up WebSphere MQ for the Domain Communications

---

Environment File Parameters	Description
IIAEXTINSQMGR1	Specifies the queue manager of IIAEXTINSHOST1.
IIPASSTHRUHOST	For message forwarding only to support multi-domain communications. Specifies the queue name for the ACR/Instream host that will receive the messages which are sent if the forwarding feature is turned on. The message forwarding feature is controlled with the <i>Should this domain forward integrity check messages to another domain?</i> parameter.
IIPASSTHRUQMGR	For message forwarding only. Specifies the queue manager of IIPASSTHRUHOST.

---

5. Save your changes.

# ACR/Instream z/OS Libraries and Files

This chapter contains summary information about the ACR/Instream z/OS libraries and files. Not all libraries and files are used by every implementation and not all files are needed after you migrate to a production environment.

The tables in this chapter briefly describe the purpose of each library and file and provide some guidelines on which are required for the production environment:

- Table “z/OS Libraries for ACR/Instream” describes the purpose of the libraries available after unloading the ACR/Instream installation tape.
- Table “z/OS Files for ACR/Instream” describes the files that are required for the testing environment and the production environment.

## z/OS Libraries for ACR/Instream

The table below briefly describes the purpose of each library and provides some guidelines on which are required for the production environment.

z/OS Libraries for ACR/Instream			
Librar	Purpose	Required for production?	Comments
<b>COPYLIB</b>	Copybook library	Not required	Required for compiling APIs or user programs for the Execute Program action. Also contains the control card.
<b>CSRCELIB.TCP</b>	C source for TCP communication modules	Not required	The IIAENV member in this library is a C program.
<b>CSRCELIB.TCPH</b>	Header files for use in compiling C source for TCP communication modules	Not required	These files are used only if you are using non-IBM TCP/IP for the domain, requiring a recompile of the programs.

## 7 ■ ACR/Instream z/OS Libraries and Files

### *z/OS Libraries for ACR/Instream*

<b>z/OS Libraries for ACR/Instream</b>			
<b>Library</b>	<b>Purpose</b>	<b>Required for production?</b>	<b>Comments</b>
<b>DATALIB</b>	Data library	Required	Contains the function table, report headers, dummy item group, system data dictionaries, utility messages, and samples.
<b>DBRMLIB</b>	Database files	Required	Contains the source SQL statements.
<b>H</b>	Header files	Not required	Required if you are using non-IBM TCP/IP requiring a recompile of the programs. These would be necessary for a remote installation using non-IBM TCP/IP.
<b>LOADLIB</b>	Load library	Required	Contains the executable programs that run the ACR/Instream domain.
<b>LOADLIB.MQS</b>	Compiled WebSphere MQ communication modules	Not required	If you specify WebSphere MQ during installation, these modules are copied into your LOADLIB.
<b>LOADLIB.TCP</b>	Compiled TCP/IP communication modules	Not required	If you specify TCP during installation, these modules are copied into your LOADLIB.
<b>LOADLIB.TCPHost</b>	Compiled TCP/IP communication modules	Not required	If you specify TCP with a "name" or "alias," you specify TCP HOST during the installation and these modules are copied into your LOADLIB.
<b>OBJLIB.TCPH</b>	Compiled objects not yet linked	Not required	These are used to relink with Interlink TCP/IP. These are used only if you are using non-IBM TCP/IP and only a relink was necessary.
<b>PROCLIB</b>	Procedure library	Required	Contains files that create other files, run the domain, run utilities, shutdown the domain and license the product.
<b>SCRCELIB.MQS</b>	COBOL source for WebSphere MQ communication modules	Not required	If you specify WebSphere MQ during installation, the IIAENV record from this file is copied, creating the IIAENV file.
<b>SCRCELIB.TCP</b>	Source for old TCP/IP communication modules	Not required	If you specify TCP during installation, the IIAENV record from this file is copied, creating the IIAENV file.

## z/OS Files for ACR/Instream

The table below briefly describes the purpose of each file and provides some guidelines on which are required for the production environment. The locations of most of these files were defined in the IMFILES JCL that was submitted during installation.

<b>z/OS Files for ACR/Instream</b>					
<b>File Name</b>	<b>Purpose</b>	<b>Type of file</b>	<b>Required for testing?</b>	<b>Required for production?</b>	<b>Description</b>
<b>IIACONFG</b>	Configuration file	Flat	Required	Required; copy from test environment during upgrade or migration, if possible.	Contains system settings that should be remembered by ACR/Instream from one execution to the next.
<b>IIADEBUG</b>	Debug file	Flat	Not required	Not required	Stores debug messages during testing.
<b>IIAENV</b>	Environment file	Flat	Required	Required	Contains variables such as TCP/IP address, WebSphere MQ queue names, and wait times for incoming messages.
<b>IIAEXRPT</b>	Extraction Report output file	Flat	Required if configuration parameter set to on and if not allocated to another file.	Required if configuration parameter set to on and if not allocated to another file.	For the Extraction Error report output. You can allocate the report to any file by creating the files and making the appropriate changes to the JCL. An alternative is to use SYSOUT.
<b>IIAIGLIB</b>	Rules library	Flat	Required	Required	Recommended location for storing rules. Storing rules separately facilitates future maintenance activities.
<b>IIAIGR</b>	Item group file	VSAM	Required	Required	Contains the item group header and the element definitions.

## 7 ■ ACR/Instream z/OS Libraries and Files

### *z/OS Files for ACR/Instream*

<b>z/OS Files for ACR/Instream</b>					
<b>File Name</b>	<b>Purpose</b>	<b>Type of file</b>	<b>Required for testing?</b>	<b>Required for production?</b>	<b>Description</b>
<b>IIAJCL</b>	Launch file	Flat	Required if you use the ACR/Instream Launch action.	Required if you use the ACR/Instream Launch action.	The name stored in the IIAJCL is submitted to the internal reader when the Launch action is executed.
<b>IIALOG</b>	Recovery log	Flat	Required	Required	Contains exact images of the integrity messages received by a domain for recovery purposes.
<b>IIAMSGS</b>	Messages file	VSAM	Required	Required	Contains text strings for items such as report headers.
<b>IIANAME</b>	Names file	Flat	Required	Required	Used only by sites that use ACR/XP.
<b>IIAPLOG</b>	Permanent log	Flat	Required if log is not disabled.	Required if log is not disabled.	Contains exact images of the messages received by a domain.
<b>IIARLOG</b>	Run100 log file	Flat	Not required	Not required	Used only for writing messages while using the run100 command to read older versions of integrity messages.
<b>IIARPTA</b> <b>IIARPTB</b>	Integrity Check Report output files	Flat	IIARPTA is always required as the default. IIARPTB is required if you intend to use with a SWITCH FILES function.	IIARPTA is always required as the default. IIARPTB is required if you intend to use with a SWITCH FILES function.	For Integrity Check report output. IIARPTA is the default output file. You can allocate them to any two files by creating the file and making the appropriate changes to the JCL.

<b>z/OS Files for ACR/Instream</b>					
<b>File Name</b>	<b>Purpose</b>	<b>Type of file</b>	<b>Required for testing?</b>	<b>Required for production?</b>	<b>Description</b>
<b>IIARQR</b>	Request ID file	VSAM	Required	Required; copy from test environment during upgrade or migration, if possible.	Contains the function table that is used by ACR/Instream to dispatch incoming messages as well as stores the request definitions, the data dictionary, and global
<b>IIASYNCA</b> <b>IIASYNCB</b>	Syncpoint files	Flat	Required	Required	Contain images of the item tables kept in the domain's memory. Required for restarting ACR/Instream.
<b>IIATIMER</b>	Timer set file	Flat	Required if you use the Timer utility.	Required if you use the Timer utility.	Contains the Timer sets to work with the Timer utility.
<b>IIAVT</b>	Item Group file	Flat	Required if you store item groups on disk.	Required if you store item groups on disk.	Contains item groups under control that you have requested be stored on disk instead of in memory.
<b>IIAWARM</b>	Warm-Start file	Flat	Required	Required	Stores the current settings of global parameters between runs of ACR/Instream.