

CICS Batch Application Control for z/OS



Workstation User's Guide

Version 1 Release 1

CICS Batch Application Control for z/OS



Workstation User's Guide

Version 1 Release 1

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 91.

Second edition (December 2005)

This edition applies to Version 1 Release 1 of CICS Batch Application Control, program number 5697-I94, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of the product.

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Preface

This book describes CICS® Batch Application Control, generally referred to in this book as CICS BAC for short. It covers basic system concepts, system requirements, installation, detailed product information, and other user procedures. Further information can be found in the *CICS Batch Application Control for z/OS User's Guide*, the *CICS BAC Program Directory*, and the workstation administration client online help.

Who should read this book

This book is for:

- Anyone who works with CICS Batch Application Control for z/OS® (CICS BAC)
- Anyone else who needs to be familiar with CICS BAC

Before you read this book, you should be familiar with the following:

- CICS general concepts and facilities
- OS/390® and/or z/OS general concepts and facilities
- OS/390 and/or z/OS batch job processing general concepts and facilities
- The operating system that runs on the workstations that will run the CICS BAC workstation administration client, which must be one of the following:
 - Microsoft Windows 2000 Professional
 - Microsoft Windows XP Professional
- Business procedures associated with CICS BAC that are used by your company. These may differ slightly from those described in this book.

How this book is organized

This book contains the following parts:

- Chapter 1. Overview
- Chapter 2. Installing the software
- Chapter 3. Getting started
- Chapter 4. Region objects (reference)
- Chapter 5. File objects (reference)
- Chapter 6. TDQueue objects (reference)
- Chapter 7. TransID objects (reference)
- Chapter 8. Program objects (reference)
- Chapter 9. Host operations (Reference)

Unless you are already familiar with CICS Batch Application Control for z/OS and are using this book for reference only, you should read each chapter in turn as the information builds on that contained in previous chapters.

Related publications

This booklet provides the necessary information that you need to operate the CICS BAC workstation administration client. For more details on CICS BAC program operation or the mainframe environment, please refer to these additional resources:

- *CICS BAC Online Help*. You can get complete online help for all CICS BAC workstation administration client options and procedures by using the Help menu on the main menu bar. The online help provides much of the same information found in this manual.
- *CICS Application Programming Reference*. This manual provides additional details of the CICS programming environment. It can help you to better understand many of the more esoteric rule settings available in CICS BAC, in particular the parameters associated with event types and selection criteria.
- *CICS Batch Application Control for z/OS User's Guide*. This manual explains how to implement, customize, and use CICS BAC in conjunction with a host mainframe computer. The manual also includes information on the relationship and interaction between the workstation administration client and the mainframe capabilities of CICS BAC, as well as a chapter on product concepts and facilities.
- *CICS BAC Program Directory*. This manual provides information regarding the installation of CICS BAC on the host mainframe computer.

Conventions used in this book

The following conventions are used throughout this book:

- **Bold text** is used for: Folder names Menu choices Field names Icon or push button names Any other Interface elements that can be selected.
- *Italic text* is used for: Emphasized words New terms Variable names (place-holders)
- Monospace text is used for: File names Displayed message text Text you type Code or syntax examples
- *Monospace italic* text is used for: Variables in code or syntax examples

Chapter 1. Overview

Welcome to CICS BAC

Welcome to IBM® CICS Batch Application Control for z/OS (CICS BAC). CICS BAC is a flexible product that allows you to set up, customize, and apply parameters to be used to control the state of various CICS resources from a batch job step. In addition, CICS BAC tracks state changes for resources so that it can ensure the state of the resources is correct during a CICS region startup.

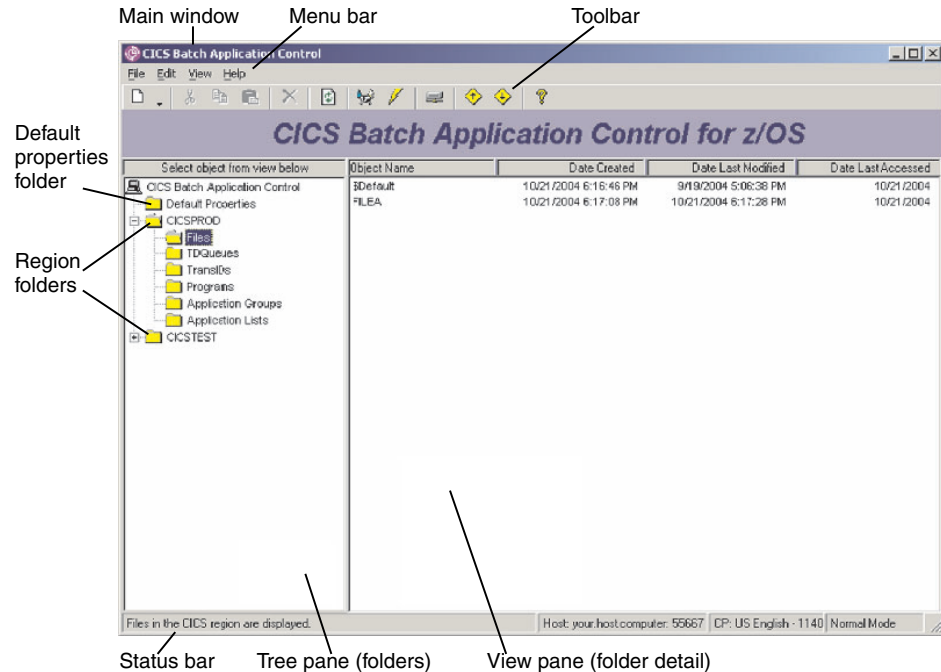
This guide describes the CICS BAC workstation administration client, which runs on any standard PC that meets the minimum system requirements. Using the workstation client, you can:

- Define a default set of parameters that can serve as your basic template for defining individual CICS regions and their resources to CICS BAC
- Create additional sets of customized parameters for each CICS region that will be using the features of CICS BAC
- Save and upload these parameters to the mainframe host
- Query host control file objects
- Browse CICS region resource names and attributes

Understanding the user interface

All CICS BAC operations start at the main window, which contains the following:

- **Tree Pane.** The left panel displays a hierarchical tree structure of folders representing CICS regions and their resources. Clicking open a folder shows you the individual object definitions.
- **Default properties folder.** This folder contains all the default object properties used as the base template for any new folders that you create.
- **Region folders.** You can create a new folder of customized CICS BAC objects for each CICS region that will be using CICS BAC. Note that the region folder name must be identical to the CICS region's VTAM® applid.
- **Object folders.** Within each region folder, the object folders store both the default object definition (derived from the default folder) and any customized object definitions that you create.
- **View Pane.** The right panel lets you view the object definitions for each folder selected in the tree pane. For example, opening the Files folder for a CICS region displays a list of file objects defined for that region. Double-clicking an object shows you the current parameters defined for that resource
- **Toolbar.** The toolbar provides single-click access to the most frequently used menu options in CICS BAC. These are also available from the pull-down menus and in some cases by right-clicking on an object
- **Menu bar.** The menus contain all available program options. For instance, to create a new region folder, select File > New > CICS Region Folder. Menu options are made available or "grayed out" according to the current context.



Shortcut keys. Another quick way to access menu options is to use the shortcut keys listed on the menu, such as Ctrl-X for Paste or Ctrl-R for Refresh. You can also use the underlined letters on the menus to access menu options. An Alt-key combination opens each menu and then a single keystroke selects the menu option. For example, File > Save can be invoked by typing Alt-F (to open the File menu) and then S (to select Save).

Basic definitions

CICS BAC objects provide an easy way to define, collect, use, and reuse sets of customized parameters. The CICS objects are defined as follows:

CICS regions

A CICS region is represented by a Windows folder. A default folder is created in the region's CICS BAC control file as part of the implementation process performed on the mainframe host to make CICS BAC available to a CICS region. The region folder can subsequently be downloaded to the workstation client so that it may be customized to better fit your installation's requirements, then uploaded back to the region's control file so that the changes may take effect.

The CICS region folder can contain various objects within the region's resource subfolders that provide CICS BAC with additional information on how CICS BAC is to treat the specific resource during various types of processing.

The following region properties can be defined for each CICS region using CICS BAC:

- Region startup options
- Region termination options
- Batch request processing
- Undefined object processing
- Miscellaneous options

File objects

A file object is a default or customized set of properties defined for a specific file in a given CICS region. You can define a set of file properties for any number of files in the CICS region. These properties include:

- File state startup options, exclusion options, and data set names
- Record Level Sharing (RLS) processing options
- A list of IDs for transactions that are to be processed whenever the file is processed by the CICS BAC batch request utility
- A list of programs that are to be processed whenever the file is processed by the CICS BAC batch request utility

In addition, the following information can be displayed about the file:

- Last processed information such as date, time, job name, etc.
- State information such as open/closed, enabled/disabled, etc.

Transient data queue objects (TDQueues)

A TDQueue object is a default or customized set of properties defined for a specific transient data queue in a given CICS region. You can define a set of properties for any number of TDQueues in the CICS region. These properties include:

- TDQueue state startup options and exclusion options
- A list of IDs for transactions that are to be processed whenever the TDQueue is processed by the CICS BAC batch request utility
- A list of programs that are to be processed whenever the TDQueue is processed by the CICS BAC batch request utility

In addition, the following information can be displayed about the TDQueue:

- TDQueue state information including last processed date, time, etc.
- Last state (open/closed, enabled/disabled)

Transaction ID objects (TransIDs)

A transaction ID object is a default or customized set of properties defined for a specific transaction ID in a given CICS region. You can define a set of properties for any number of transaction IDs in the CICS region. These properties include:

- Transaction ID state startup options and exclusion options

In addition, the following information can be displayed about the transaction ID:

- Last processed date, time, and other information
- Last state (enabled/disabled)

Program objects

A program object is a default or customized set of properties defined for a specific program in a given CICS region. You can define a set of properties for any number of programs in the CICS region. These properties include:

- Program state startup options and exclusion options

In addition, the following information can be displayed about the program:

- Last processed date, time, and other information
- Last state (enabled/disabled)

Application groups and lists

An application group is a way of grouping CICS BAC objects -- files, TDQueues, transaction IDs, and programs. This is typically done to associate the objects with a particular application, such as Payroll. Grouping the objects under one application group allows you to address them as a single entity for purposes of batch request utility processing.

An application list is a way of associating CICS BAC application groups so that they also can be addressed as a single entity for purposes of batch request utility processing.

System requirements

The CICS BAC workstation administration client requires the following minimum hardware and software to perform properly:

- PC with Intel Pentium III or greater
- 256 MB system memory
- At least 20MB available disk space
- Microsoft Windows 2000 Professional
- Microsoft Windows XP Professional
- TCP/IP connectivity to a mainframe host

Chapter 2. Installing the software

Where to get the software

The end user will not receive an installation CD or diskettes. Instead, the product will be installed on the mainframe and users will download it from the host using FTP or a similar retrieval method after the host component of CICS BAC has been installed. This process may vary from installation to installation. For more information on installing the host component of CICS BAC, see the *CICS Batch Application Control for z/OS Program Directory* and the *CICS Batch Application Control for z/OS User's Guide*.

Downloading the workstation administration client software

Once the CICS BAC host component has been installed, use FTP or a similar retrieval method to copy the workstation administration client from the host to your workstation. The following example shows a sample dialog using the Microsoft Windows 2000 Professional FTP client to download the workstation administration client setup.exe file to your workstation.

```
C:\>ftp
ftp> open your.host.ftpserver
220-FTPD1 IBM FTP CS V1R4 at S390, 12:00:00 on 2004-11-26.
220 Connection will close if idle for more than 5 minutes.
User (your.host.ftpserver:(none)): userid
331 Send password please.
Password: yourpswd
230 userid is logged on. Working directory is "userid".
ftp> cd ..
250 "" is the working directory name prefix.
ftp> binary
200 Representation type is Image
ftp> get your.scbkdwld.dataset(cbkwcenu) c:\yourpath\setup.exe
200 Port request OK
125 Sending data set YOUR.SCBKDWLD.DATASET(CBKWCENU) FIXrecfm 80
250 Transfer completed successfully.
ftp: nnnnnnn bytes received in nnn.nnSeconds nn.nnKbytes/sec.
ftp> close
221 Quit command received. Goodbye.
ftp> quit
C:\>
```

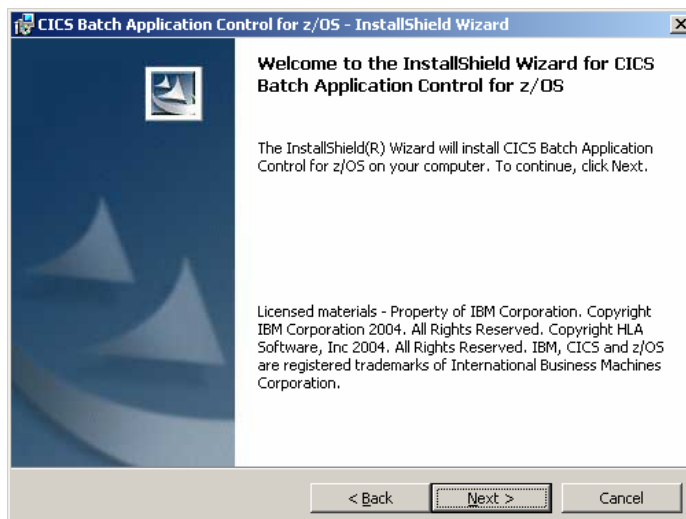
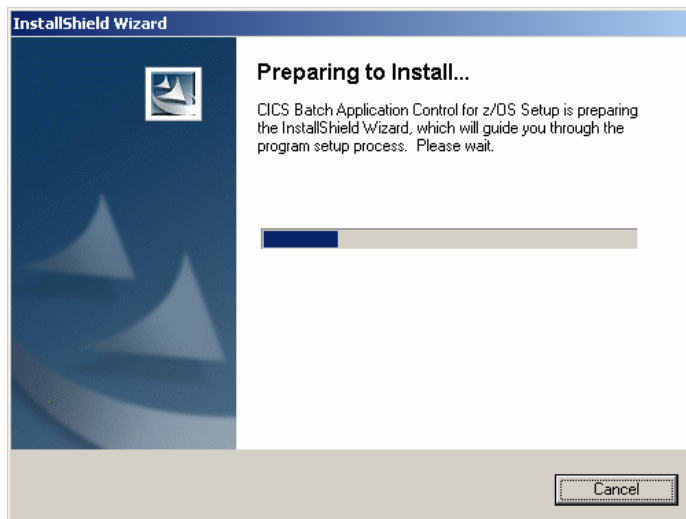
In this example, all non-bold, non-italicized characters are workstation prompts and responses from the FTP client or host FTP server. Words shown as bold, non-italicized are FTP commands and should be entered as shown. Characters, words, and phrases that you must enter according to your installation requirements are shown as bold and italicized (for example, ***userid***). All non-bold, italicized characters are workstation FTP client or host FTP server responses (or segments of responses) that will vary depending on your environment and the data you enter. If you are downloading a client for a language other than English, you must change ***cbkwcenu*** in the FTP GET command to the appropriate member name, for example, ***cbkwcjpn***.

You can continue with the following steps in this manual before implementing and customizing CICS BAC on the host. However, before you can perform any actions that require host interaction (such as uploading an object definition to the host), you must finish the implementation and customization process for the host component. For information on this process, see the *CICS BAC Program Directory* and the *CICS BAC User's Guide*.

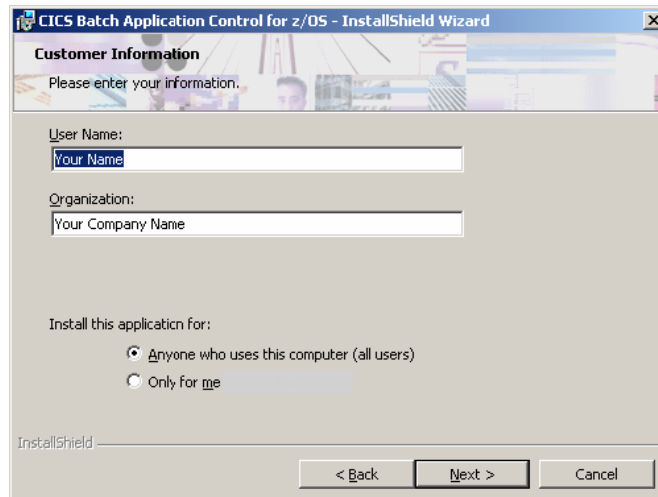
Installing the workstation administration client

CICS BAC is simple to install. Most PC software has an end user license agreement that comes up early during the installation process. Instead, CICS BAC is licensed as a host product and part of the terms of the license on the host will be the ability to distribute and use the workstation administration client. To install the CICS BAC workstation administration client, follow these steps:

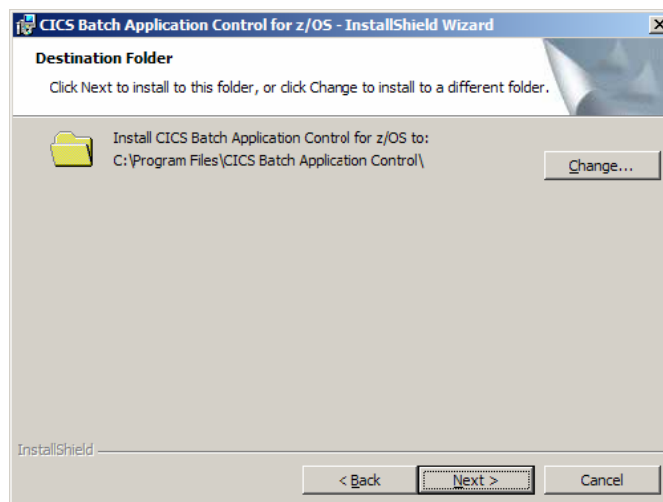
1. Use FTP or a similar method to download the software from the host mainframe.
2. Double-click the downloaded **setup.exe** file. This displays the CICS BAC opening panels.



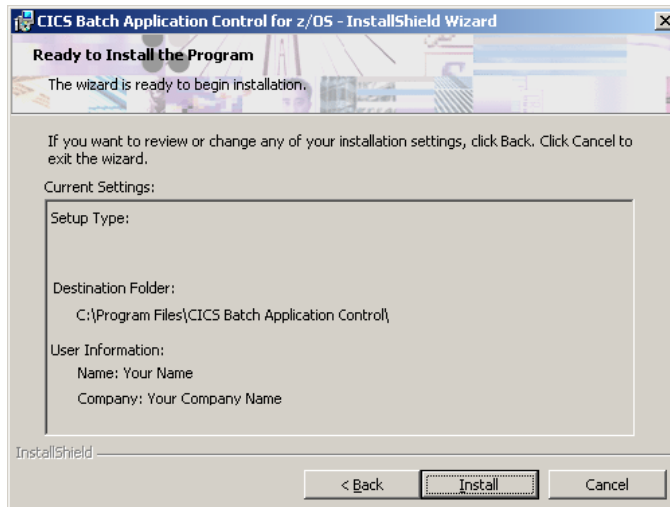
3. These panels start the process of providing installation settings. When you see the second panel, click Next to continue.



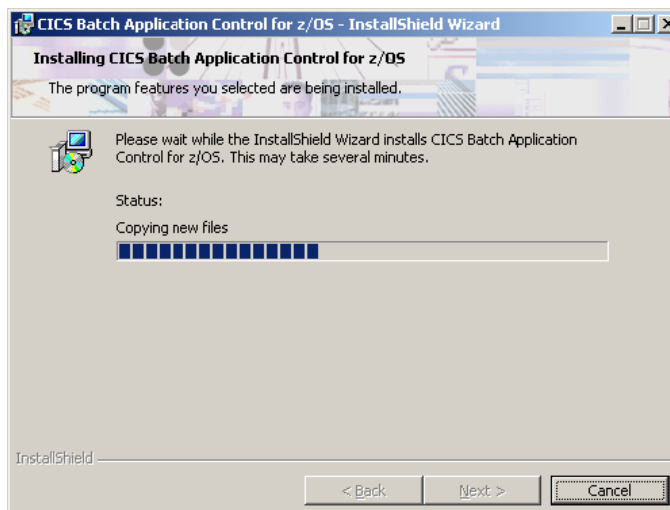
4. Enter your **User Name** and **Organization** name in the fields provided.
5. Under install this application for, select **Anyone** if you want this program to be available for anyone who logs on to this computer, or select **Only for me** if you want the program to only be available under your login.
6. Click **Next** to continue.



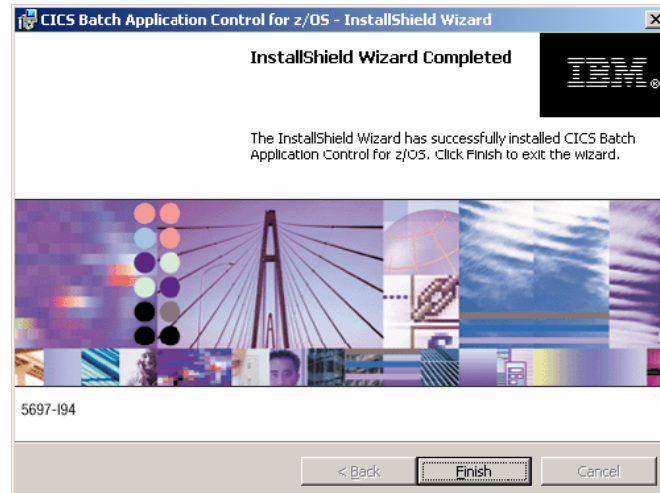
7. This display shows you that the software will be installed in the displayed Destination Folder on your local hard drive. If you want to install it elsewhere, click **Change** and select a different location. When finished, click **Next** to continue.



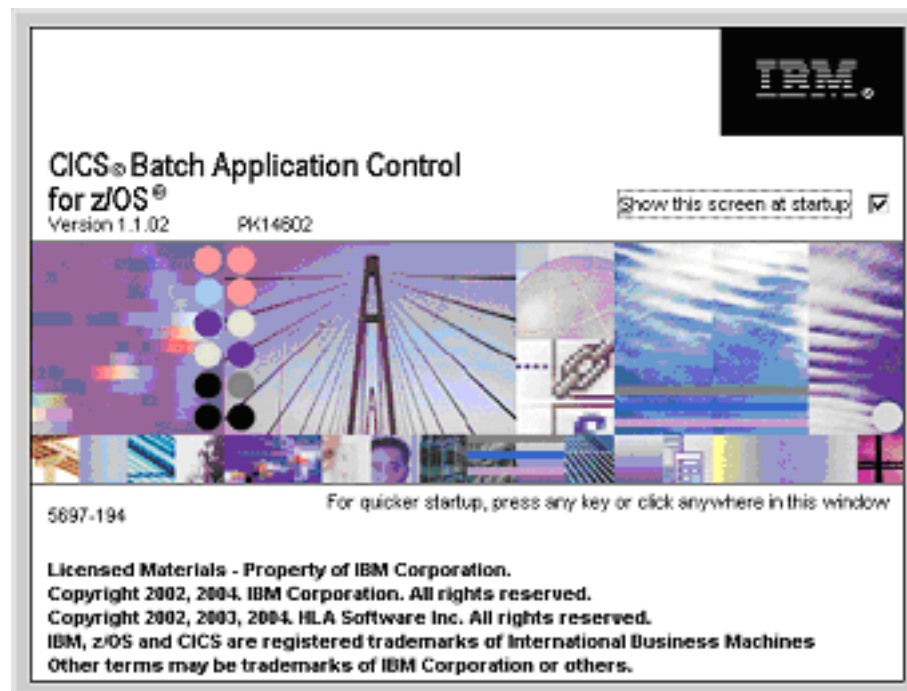
8. This display shows all of the installation settings you have chosen.
- If you want to change any of the settings before the installation begins, click **Back** until you have reached the appropriate display.
 - If the settings are correct, click **Install** to begin the installation process. You will see a Status display that shows the progress of the installation.



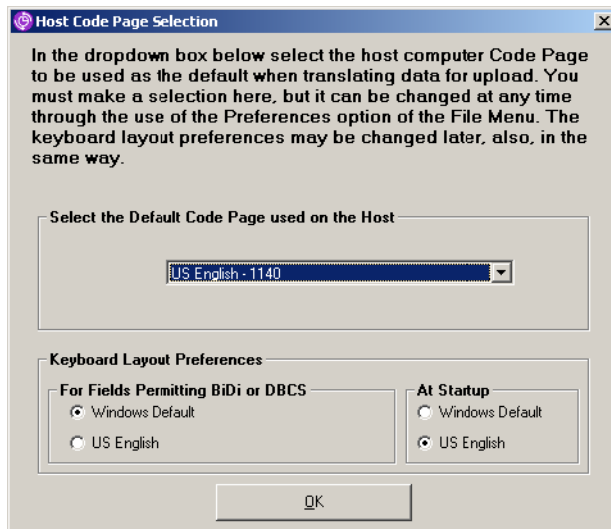
When the installation is completed, you will see the InstallShield Wizard Completed display.



9. Click **Finish** to complete the installation.
10. When you have completed the installation, you can start the workstation administration client by selecting it from the "All Programs" section of the Windows XP Start menu, or the "Programs" section of the Windows 2000 Start menu. The first popup you see is the CICS BAC splash panel.



The first time the program opens, it displays a Code Page Selection dialog box that lets you select the host computer Code Page for use in translating data for upload.



11. Use the pulldown list to select the **Default Code Page** . Depending on your selection, the appropriate region/language choice is reflected under Keyboard Layout Preferences in the bottom half of this dialog box.
12. In the two areas under Keyboard Layout Preferences, select whether you want to use the Windows Default keyboard, or the keyboard layout specific to the selected region/language. When finished, click **OK**. This starts the application.

Chapter 3. Getting started

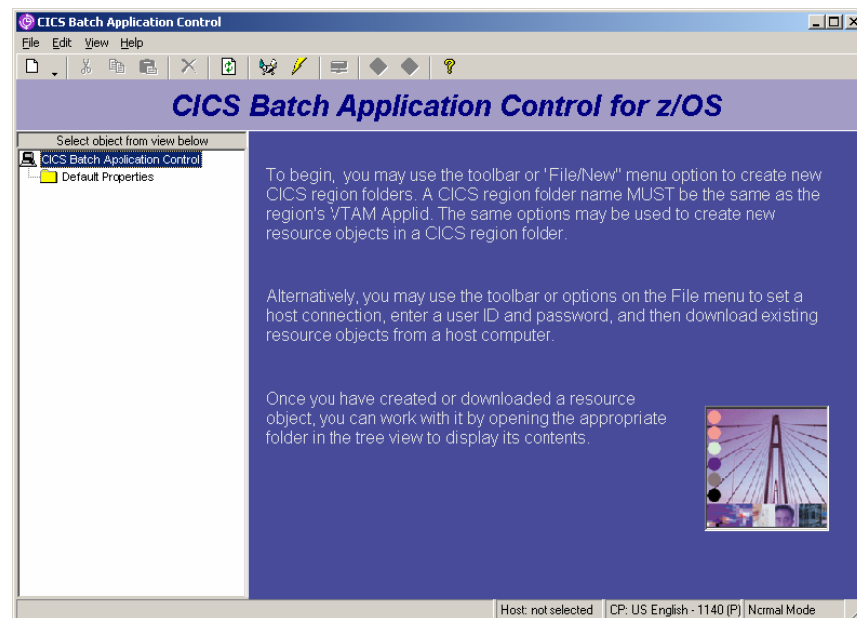
Introduction

Once the CICS BAC workstation administration client is installed, you are ready to start using it to create CICS region and resource object definitions. The following procedures explain how to get started using the workstation administration client. These procedures use sample object names for CICS regions and resources. The names you choose will most likely be different.

Starting the program

If CICS BAC is not started already, select **Programs > CICS Batch Application Control > CICS Batch Application Control** from the Start menu on your computer.

When the program starts, you will see the main window of the CICS BAC workstation administration client.



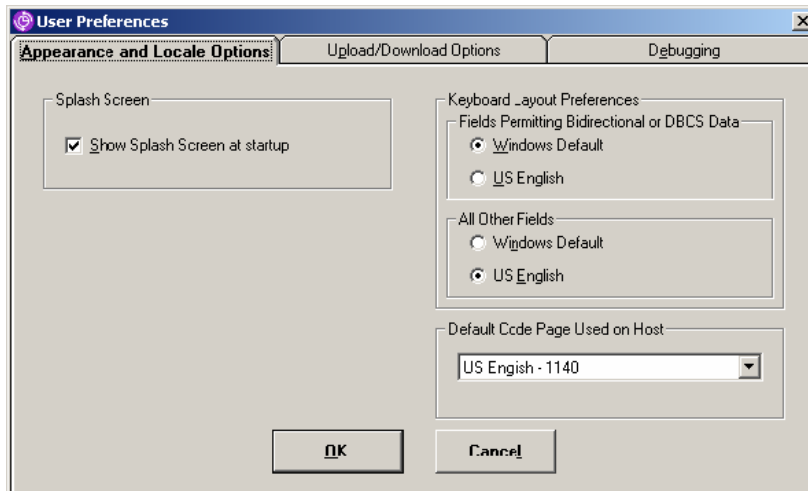
Setting the preferences

Before you get started, it also helps if you set the CICS BAC preferences to indicate how you will be using the program. To do this, select **File > Preferences** from the menubar. Notice that three different panels are available by clicking on the tabs at the top of this dialog.

When finished with this dialog, click **OK** to save your changes and close it or click **Cancel** to close the dialog without saving your changes.

Appearance and locale options

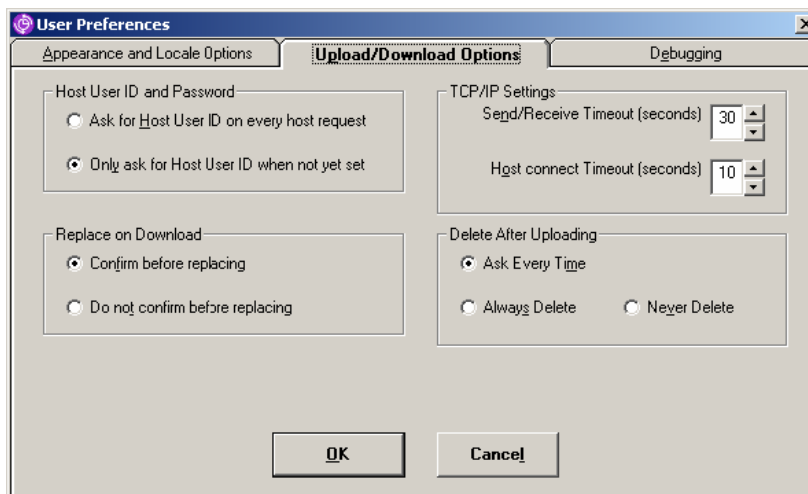
The first tab of the User Preferences dialog allows you to set Appearance and Locale Options.



- **Splash screen.** If you uncheck this box, the CICS BAC splash screen will not be shown the next time you start CICS BAC.
- **Keyboard layout preferences.** These are the same preferences set on the Code Page Selection dialog during CICS BAC installation. You can choose between the windows default keyboard layout or a specific region/language preference indicated by the Default Code Page selection below.
- **Default code page.** You can specify a different region/language preference if you prefer a different keyboard layout than the one already selected.

Upload/download options

The second tab of the User Preferences dialog allows you to set Upload/Download Options.



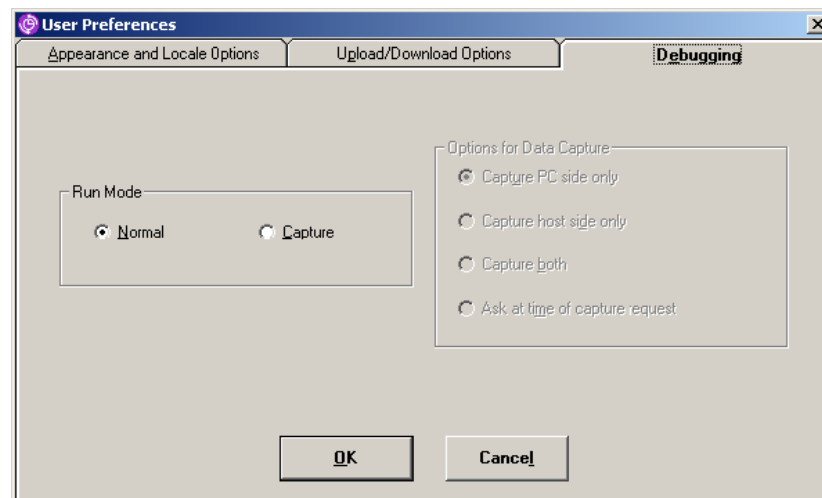
- **Host user ID and password.** For security purposes, you can have CICS BAC ask for a host user ID every time you try to upload/download from the host, or you can have it only ask for a user ID if it is not already set. A host user ID and password is required for all interactions with CICS BAC on the host mainframe, even if security checking is not active on the host.
- **Replace on download.** Specify whether you want CICS BAC to ask for confirmation before replacing an existing object with downloaded information on

your workstation. If you select Do not confirm, CICS BAC will replace the existing information automatically without asking for permission first.

- **TCP/IP settings.** You can use the up/down arrow icons to change timeout length when attempting connections to the host or when exchanging data with the host. CICS BAC will disconnect automatically if there is no activity within the specified time period (in seconds) and display a popup explaining the type of timeout.
- **Delete after uploading.** These selections control whether CICS BAC will delete your resource object definition after uploading it to the host.
 - **Ask every time.** CICS BAC will always ask whether or not it should delete the object.
 - **Always delete.** CICS BAC will delete the object definition automatically following a successful upload of the object without asking for permission except in certain situations in which the editing of an object definition is still underway on the workstation.
 - **Never delete.** CICS BAC will not delete the object definition on your workstation automatically following a successful upload of the object. If you want it deleted, you will have to delete it manually.

Debugging options

The third tab of the User Preferences dialog allows you to set Debugging Options.



- **Run mode.** These settings indicate the preferred mode that you want CICS BAC to run in:
 - **Normal.** This is the normal mode of operation described in the CICS BAC documentation. This option should always be selected unless requested otherwise by CICS BAC Technical Support.
 - **Capture.** If you select this mode, data will be captured and logged for debugging purposes on the host side, workstation side, or both, as defined in the right side of this panel. This option should only be selected if requested by CICS BAC Technical Support.
- **Options for data capture.** These options are only available if you selected Capture mode on the left side of this panel. The options control whether data will be captured on the PC side only, the host side only, or on both sides. If you select the last option in this group, CICS BAC will prompt you to make a decision at the time of data capture.

Setting up host connectivity

As part of CICS BAC, you can upload and download resource objects, groups, and lists to and from the host. To do this, you must first set up the host communication parameters.

Creating a list of hosts

You can create a list of hosts that you regularly connect to for uploading and downloading purposes. To do this:

1. Select **File > Set Host Connection** from the CICS BAC menu bar. This opens the Set Host Connections TCP/IP Address dialog.

Host Name or IP Address	Port Number	Code Page	Comment
your.host.computer	56677	US English - 1140	CICS BAC production server

Host Name or IP Address:

Host Port:

Host Code Page:

Comment:

2. Enter the applicable **Host Name** or **IP Address**, **Host Port**, and **Host Code Page** (region/language selection). You can also enter a **Comment** further describing this host connection.
3. Click the **Add to List** button.
4. To delete a host connection from the list, select it and then click **Delete Selected Host**.
5. When you are finished using this dialog box, click the **OK** button to save your changes and close it. Or click **Cancel** to close the dialog box without saving your changes.

Setting the host user ID and password

Before you can connect to a host mainframe computer from the workstation, you must specify an authorized user ID and password that is approved for mainframe access.

If your upload/download preferences are set correctly, CICS BAC lets you enter the user ID and password once and have it automatically applied each time you connect, as long as you do not end the client session on the workstation. The user ID and password are not saved on the workstation between client sessions. To specify a user ID and password for mainframe connections:

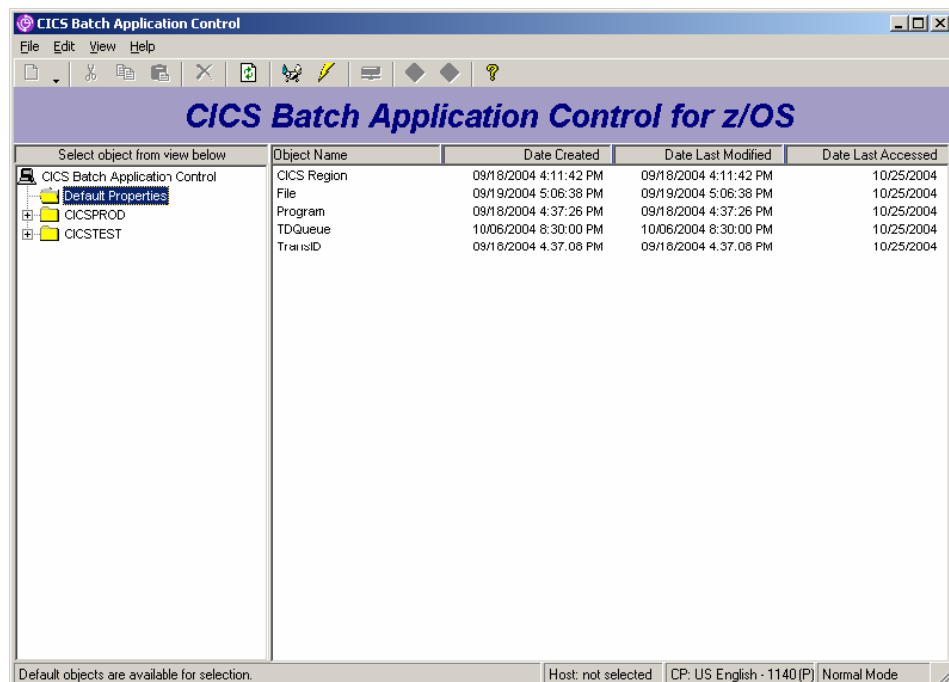
1. Select **File > Set Host User ID and Password**. This opens the Host User ID/Password dialog box.



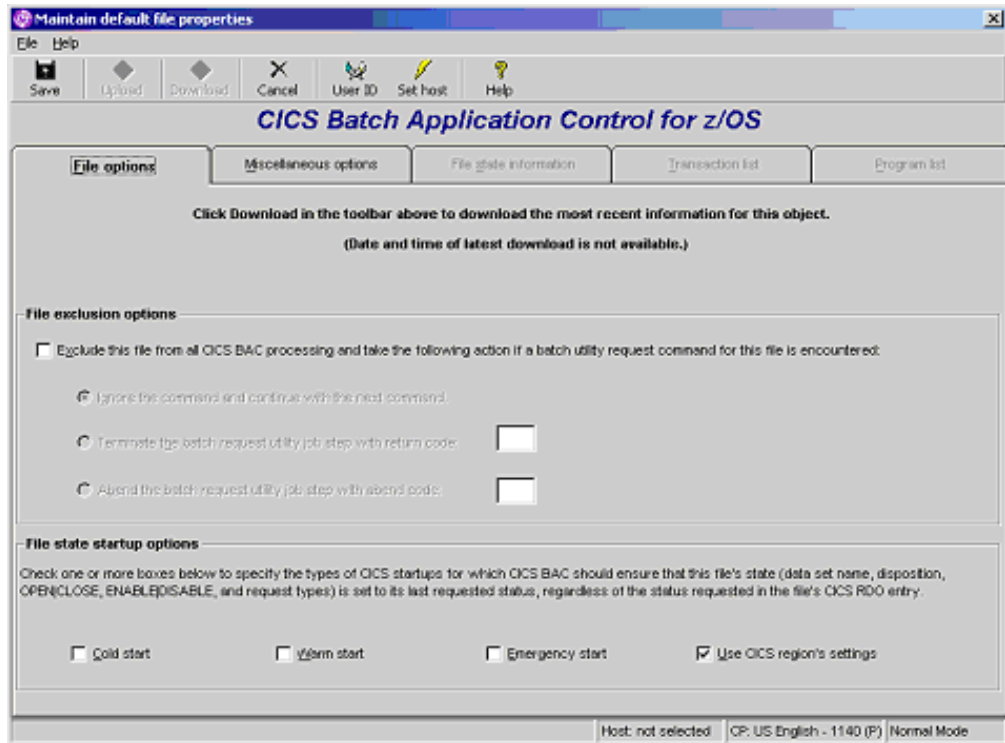
2. Enter your authorized **User ID** and **Password**.
3. Click **OK** when finished to save your entries and close this dialog box. Or click **Cancel** to close this dialog box without saving your entries.

Understanding the CICS region and resource object defaults

Once the workstation administration client is started, you are ready to begin exploring the interface a bit more. Notice the Default Properties folder in the tree pane at the upper left on the screen. If you click on this, you will see that default properties already have been defined for each type of CICS BAC object.



These are the overall default settings that will be applied for each type of object each time you create a new CICS region folder. Double-clicking any of the **Object names** in the view pane at the upper right shows you the default values for that object. For example, double-clicking the **File** object name opens the Maintain Default File Properties window.



Notice that this particular object definition has five sections, as indicated by the tabs across the top. In the default object view, some of the tabs are unavailable. This is because you can only set defaults for certain information on the first two tabs. The definitions on the other tabs only apply when defining the actual file objects (not the defaults).

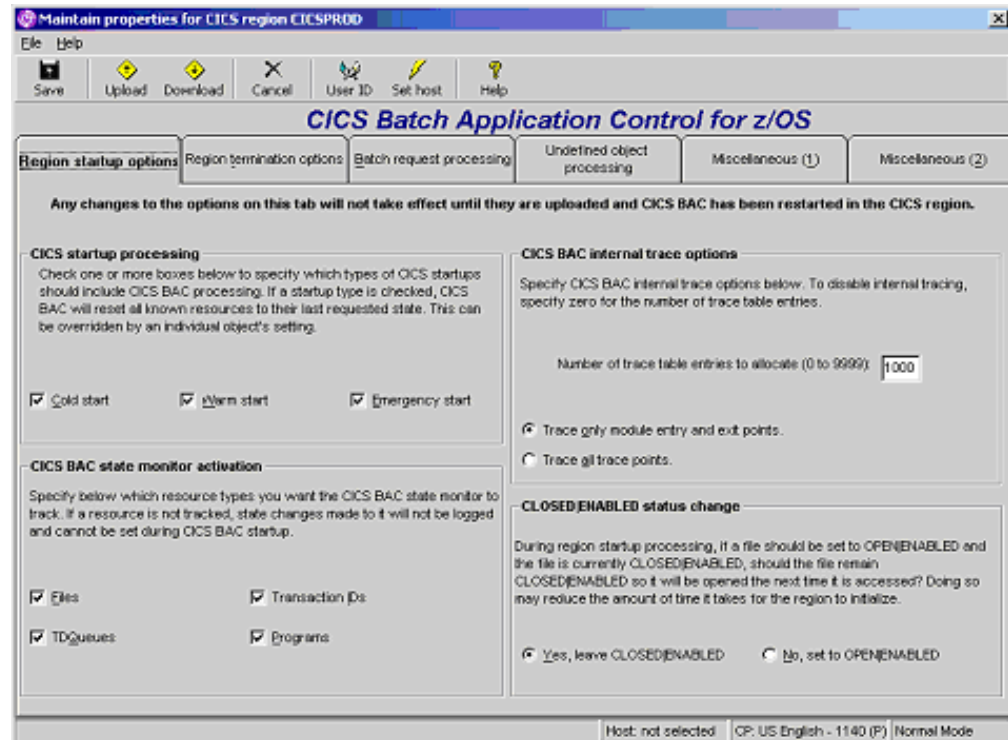
Any default selections that are available for change on these panels are the same selections that you will see when defining custom settings for the individual objects (File, TD Queue, and so on).

- For more details on these settings, view online help by selecting **Help > Contents** on the menu bar.
- To close this window, select **File > Close Window** from the menu bar at the top of the window.

Setting CICS region defaults

Before you start defining CICS region folders, you may want to set the defaults for new CICS regions. These defaults are used each time you define a new CICS region folder. To do this:

1. Click on the **Default Properties** folder in the tree pane.
2. Double-click the CICS Region object in the view pane.

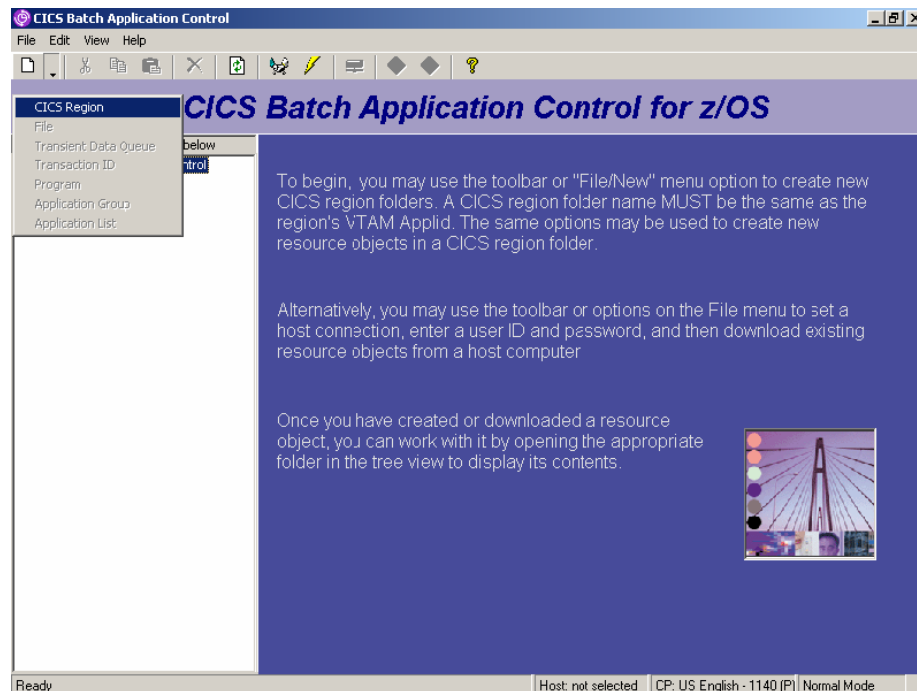


- Click each of the six tabs in this window and set the default options, as desired. For more details on these settings, view online help by selecting **Help > Contents** on the menu bar.

Creating a CICS region

CICS BAC lets you define a set of customized properties and resource objects for any number of CICS regions. To do this, you must first define a new CICS region folder and then either use the default settings or create new custom settings for each type of object. When you are ready to start defining properties for a specific region:

- Click on the words **CICS Batch Application Control** at the top of the tree pane.
- Select **File > New > CICS region folder** on the menu bar, or click the New object icon to view the available options and then select **CICS Region** from the pull-down menu.



This adds a NEWCICS region name to the tree pane.

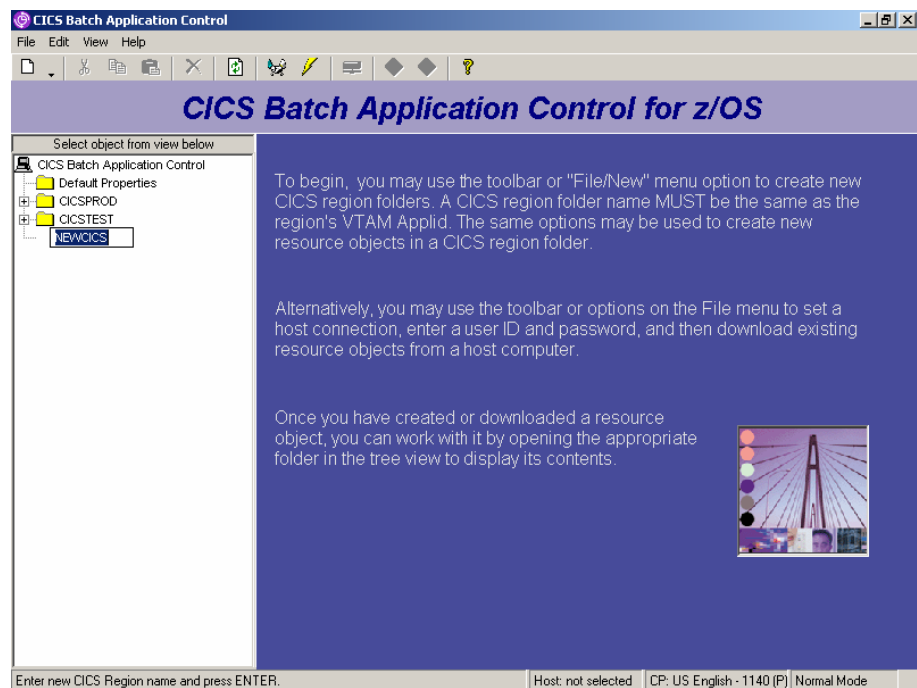
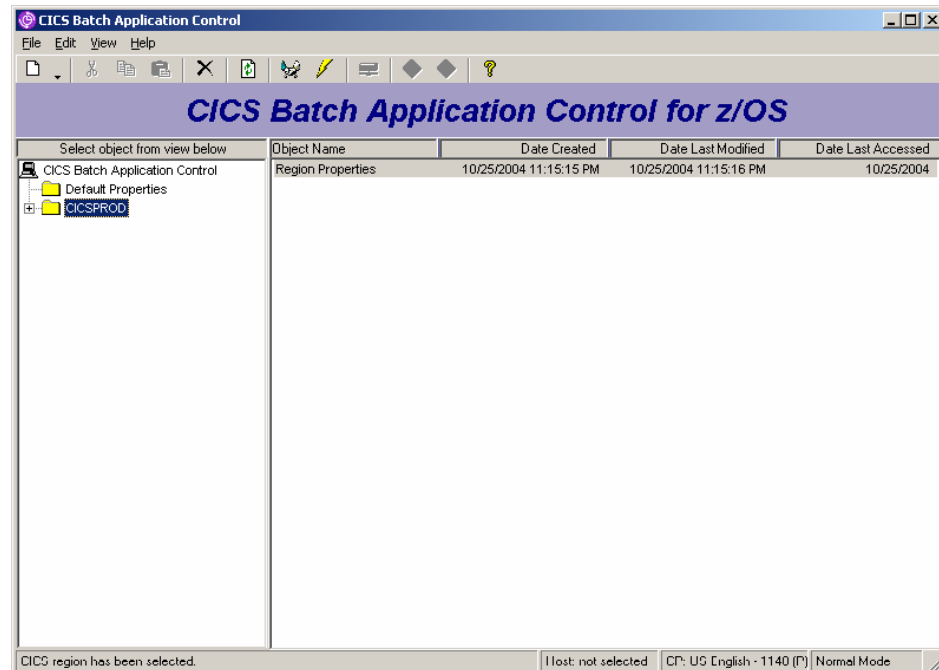
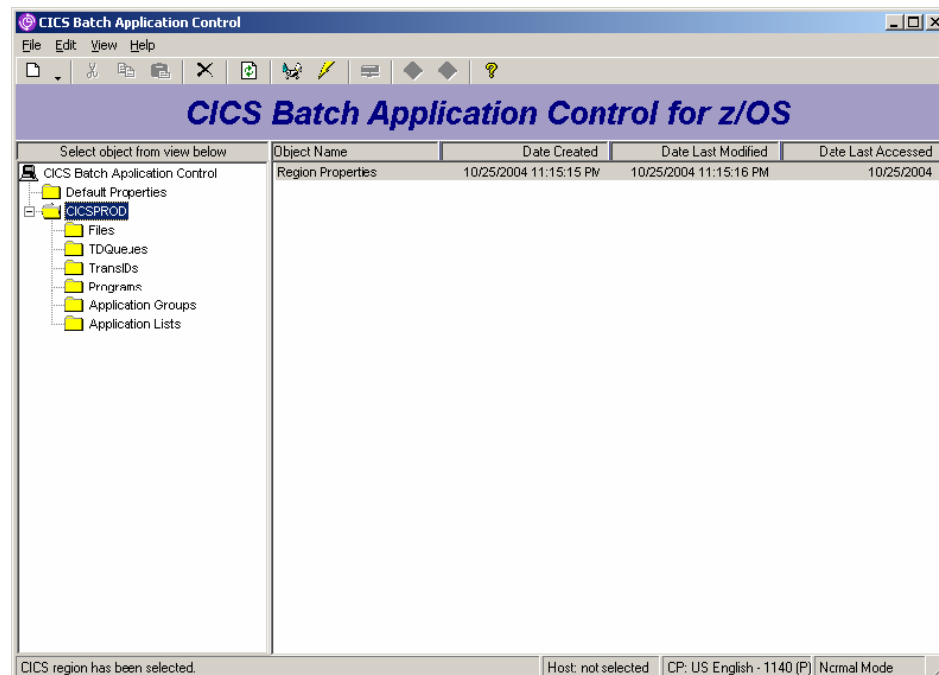


Figure 1. select CICS Region from the pull-down menu.

3. Type the preferred CICS region name, such as "CICSPROD" and press the **Enter** key on your keyboard. You cannot keep NEWCICS as the region name. The new name you enter must match the actual CICS region's VTAM applid exactly. The new name that you enter appears in the tree pane next to a new folder.



- Click on the new CICS Region folder that you have created (e.g., "CICSPROD"). Notice that CICS BAC automatically created a new subfolder for each type of resource object.



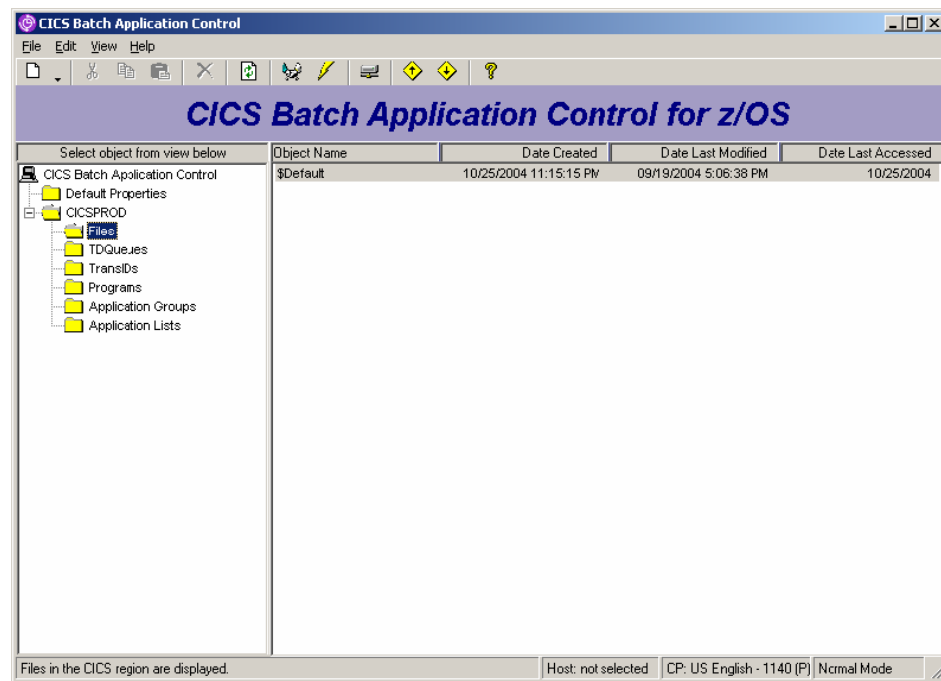
Also notice that the CICS Region folder contains its own set of Region Properties (in the view pane) that are based on the default CICS Region properties in the Default Properties folder. You can customize Region Properties for each region by double-clicking the object shown in the view pane. For more details on individual settings, see the discussion of Region Properties.

5. Define the resource objects in this region using the steps in the following sections. Then repeat this procedure as needed for additional CICS regions that you want to define.

Creating a new resource object

Once you have defined a new CICS region folder, you can start defining individual resource objects. The following procedure shows how to create a new file object, but it works the same way for TDQueue objects, transID objects, or program objects. However, for transID and program objects, all property fields and information fields are shown on a single pane instead of a pane with multiple tabs. Also, not all properties are available for all resource types.

1. Click on the **Files** folder in the tree pane to view any existing file objects.

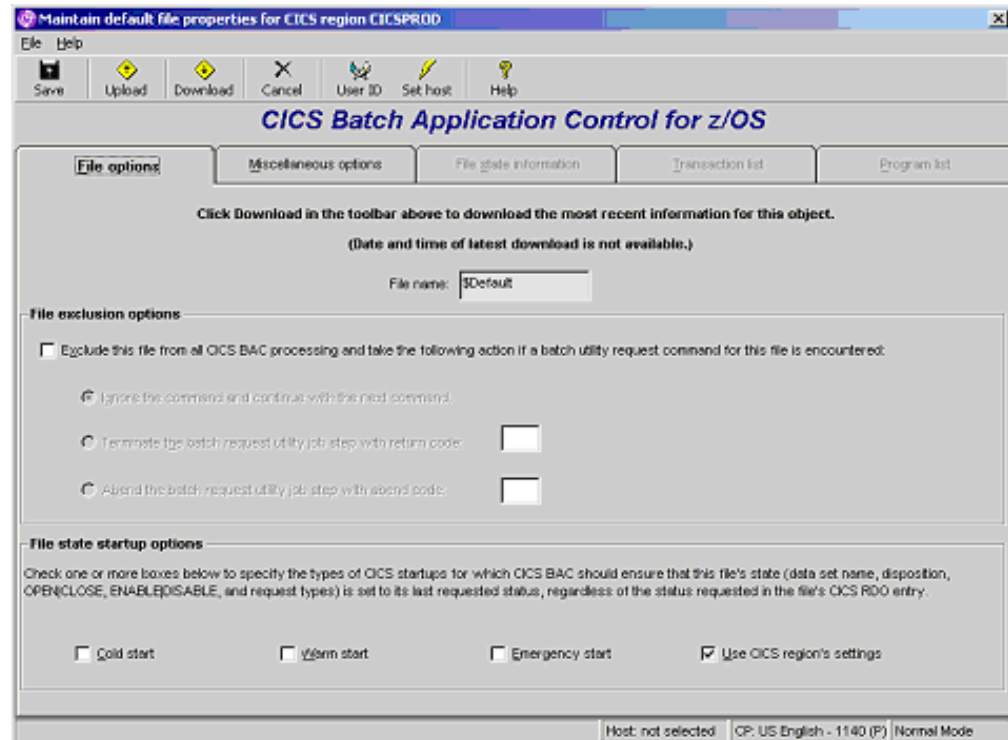


Notice the \$Default object name in the view pane. This object contains the default settings for all file objects in this region, which were derived from the overall default settings for file objects in the Default Properties folder at the time the CICS region folder was created. You now have two options:

- You can customize the **\$Default** settings for files in this region.
- You can create new file resource objects with customized settings based on the \$Default settings in this folder.

Customizing the defaults

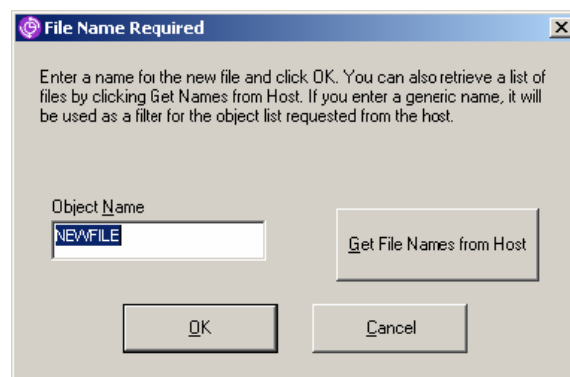
1. To customize the \$Defaults for a file object, double-click the \$Default object in the Files folder and change the settings.



2. Notice that you can only set defaults on the first and second **File options** tab, since all the others must be set for a specific file object that you will create (in the next step). For more detail on these options, see “File objects” on page 3.
3. If you change the settings in this window and want to save them, select **File > Save** or click the **Save** icon. Then select **File > Close Window** when you are ready to exit.

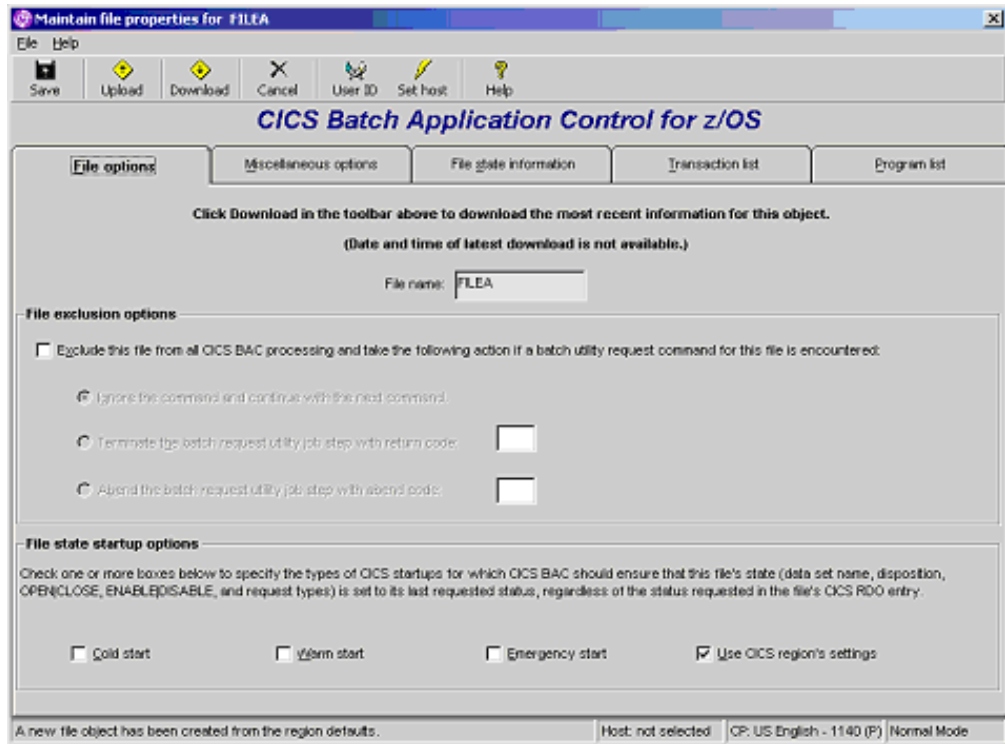
Creating the object

1. To create a new customized set of resource properties that can be used for processing a specific file, make sure the appropriate File folder is selected in the tree pane, then select **File > New > File object** on the CICS BAC menu bar or click the **New** icon on the toolbar and select **File**. This displays a dialog box that you can use to specify the new file object name.



2. Choose one of the following options:

- Enter a unique name for the object (such as "FILEA") and click **OK**. The name must be identical to the name used for the file in the CICS region. You cannot use NEWFILE as the name.
 - Click **Browse Host for Existing Files** and use the resulting dialog box to view, select, and download File object definitions from the host.
- This opens the object settings control window for your new file object.



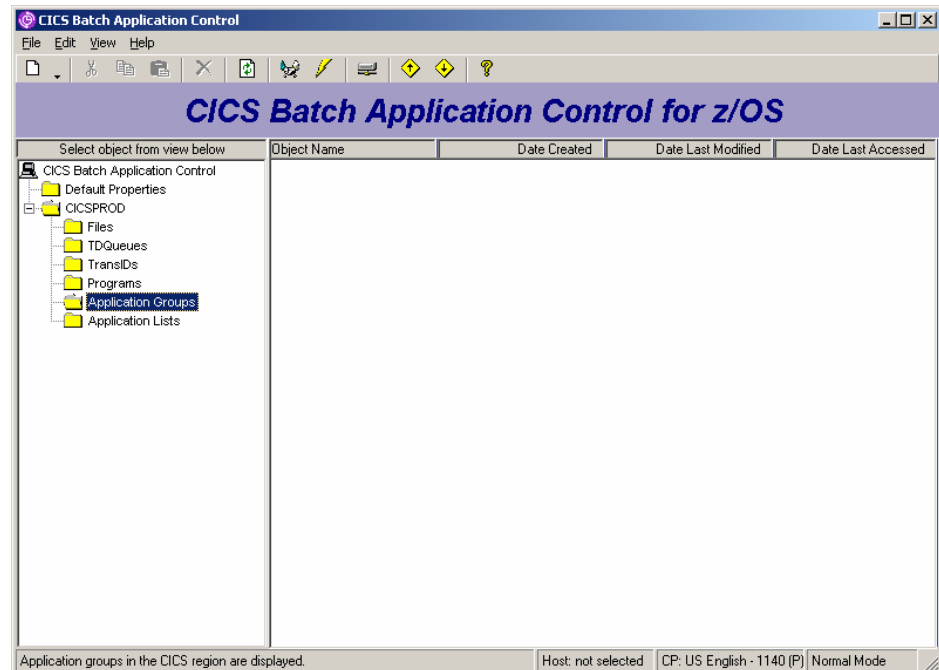
Notice that all the tabs are now available for use. You can click each tab and define the appropriate settings as defined in **Help > Contents**.

3. To save your changes, select **File > Save** or click the **Save** icon. To cancel any changes since the window was opened or since the last save, click the Cancel icon.
4. When you are finished customizing the object properties for this file object, select **File > Close Window** to exit.
5. Repeat this procedure for additional file objects that you want to define, or for other CICS BAC resource objects such as TDQueues, transIDs, or programs.

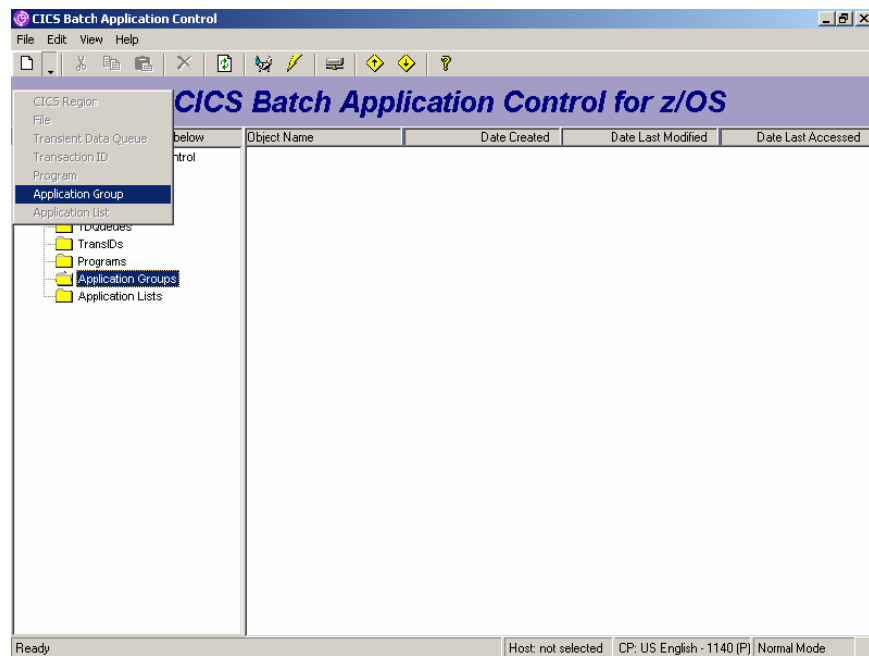
Creating application groups

Once you are finished creating all the CICS region definitions and resource object definitions, you may choose to associate some of them with a specific application, such as Payroll. To use this feature:

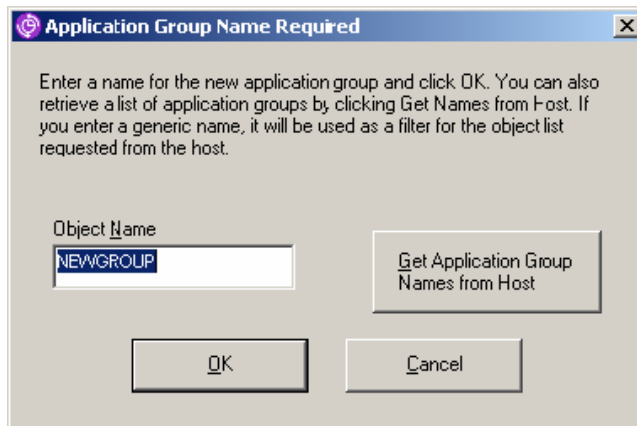
1. Click the **Application Groups** folder in the tree pane on the left side of the CICS BAC main window. This is where new application groups that you create are saved until uploaded to the host.



2. Select **File > New > Application group object** or click the down arrow next to the **New** icon on the toolbar and select **Application Group** from the drop-down menu.



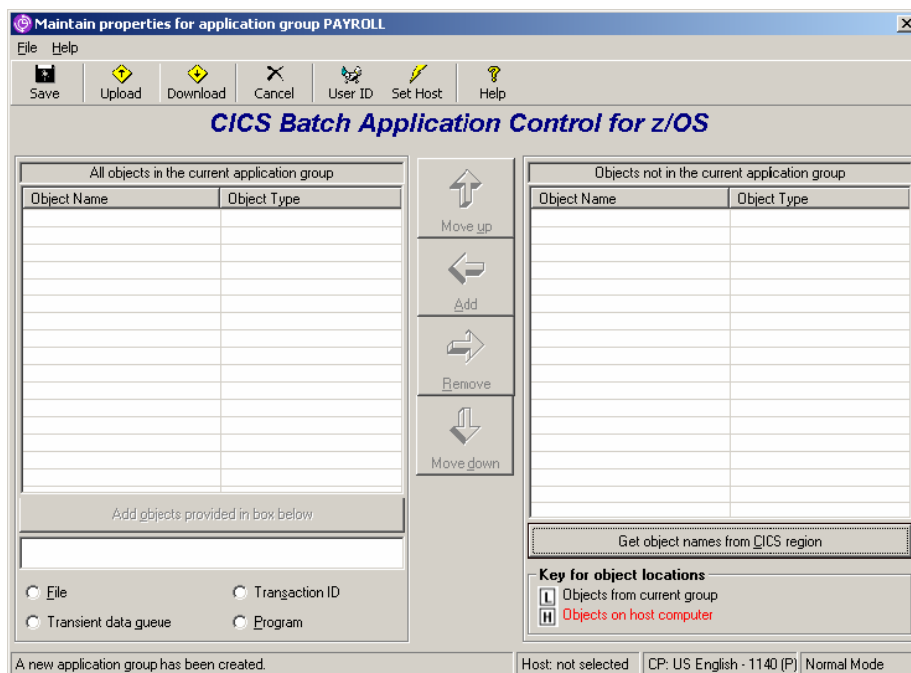
3. This displays a dialog box that you can use to specify the new group name.



4. Choose one of the following options:

- Enter a unique name for the group (such as "PAYROLL") and click **OK**. You cannot use NEWGROUP as the name
- Click **Browse Host for Existing Application Groups** and use the resulting dialog box to view, select, and download existing application groups from the host.

This opens the main window for your new application group.



5. If you have already downloaded an application group from the host computer, the list of objects is shown already. At this point, you have two additional options:

- You can browse and load individual objects from the host computer by clicking the button labeled **Get object names from CICS region** at the lower right on this window. This opens the Retrieve Object Names dialog box.

Retrieve object names for application group PAYROLL

Select the type of object whose names are to be downloaded from the host. You can optionally specify an object name for the selected type to be used as a filter. Generic names are permitted.

CICS Region

☒ File
☐ Transaction ID

☐ TDQueue
☐ Program

Choose an option below to specify the method used to obtain the object names.

☒ Use EXC CICS Inquire command to obtain object names.
 ☐ Browse CICS regions CICS BAC control file to obtain object names.

OK **Cancel**

Use this dialog to obtain object names from the host using the EXEC CICS Inquire command, or by browsing the CICS region's CICS BAC control file. You can specify the object type and optionally a generic name to be used as a filter in the upper half of the dialog box and the acquisition method in the lower half. Click **OK** when finished.

- You can also choose specific object types from the bullet list at the lower left side of the dialog box, enter specific object names in the text field, then add the specified objects to the list by clicking the button labeled **Add objects provided in box below**. You may enter more than one object name in the text box by using commas or spaces as delimiters between the names. In this case, when you click **Add objects provided in box below**, all the objects will be added to the group.

Maintain properties for application group PAYROLL

File Help

Save Upload Download Cancel User ID Set Host Help

CICS Batch Application Control for z/OS

All objects in the current application group

Object Name	Object Type

Add objects provided in box below

FILECL

☒ File
 ☐ Transaction ID
☐ Transient data queue
 ☐ Program

Move up

Add

Remove

Move down

Objects not in the current application group

Object Name	Object Type

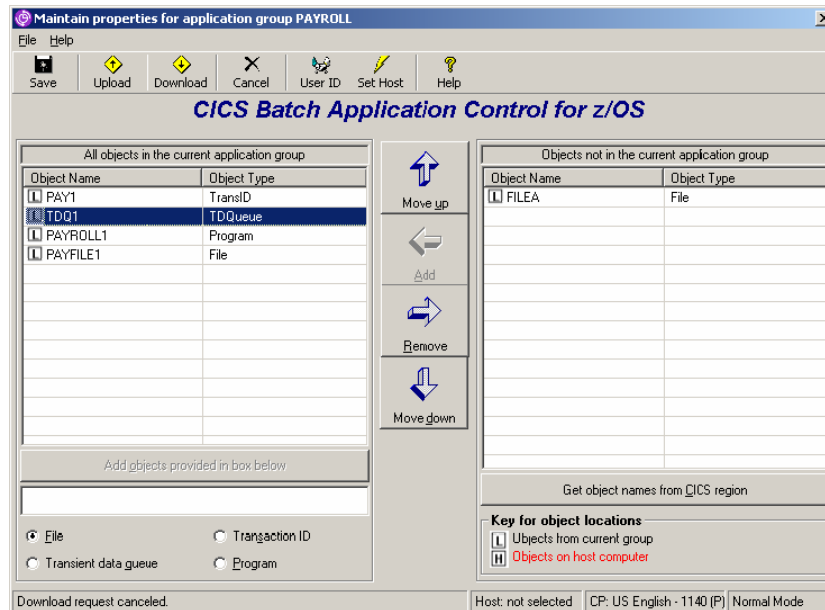
Get object names from CICS region

Key for object locations

☐ L Objects from current group
☐ H Objects on host computer

Download request canceled. Host: not selected CP: US English - 1140 (P) Normal Mode

- Once you have selected all the objects to be included, use the controls in the middle of the dialog box to arrange the objects in your application group.

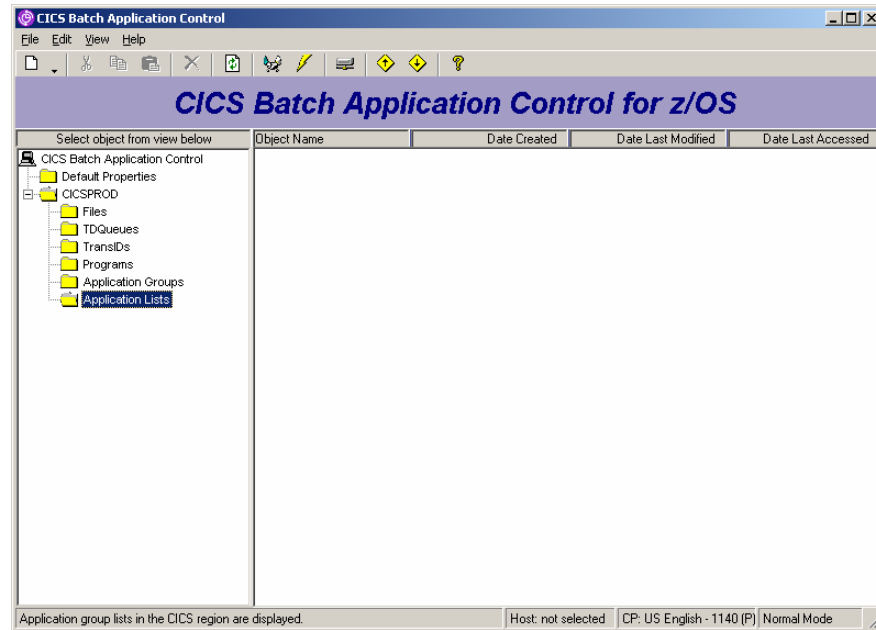


- To add an object to the group, select it from the right panel and click the **Add** button.
 - To remove an object from the group, select it from the left panel and click the **Remove** button.
 - To rearrange the list in the left panel, click an item to be moved and then use the **Move up** or **Move down** buttons.
- To save your changes, select **File > Save** or click the **Save** icon. To cancel any changes since the window was opened or since the last save, click the **Cancel** icon.
 - When you are finished customizing this application group, select **File > Close Window** to exit.
 - Repeat this procedure for additional application groups that you want to define in the current CICS region or in any others.

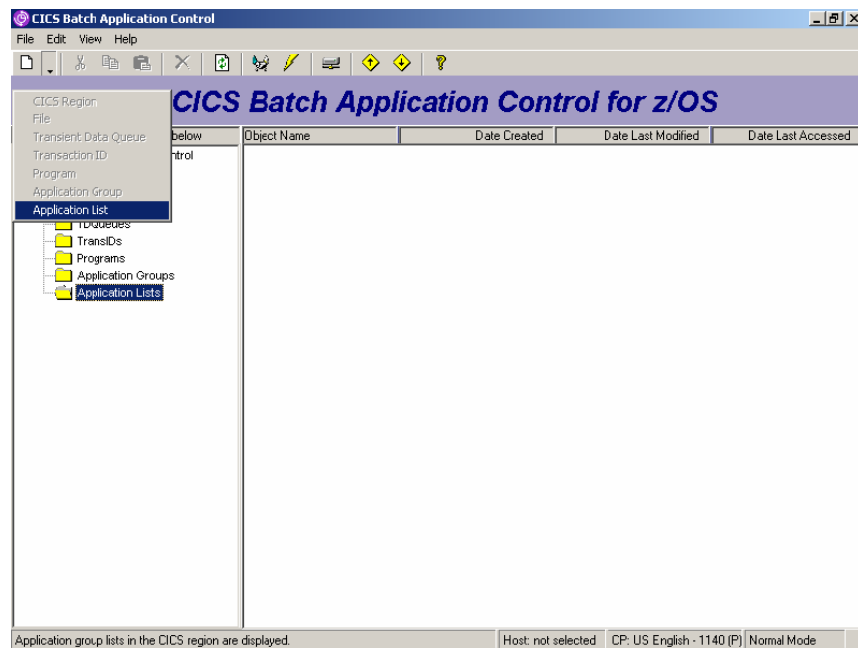
Creating application lists

Once you have finished multiple application groups, you can combine them into application lists that can be processed as a single object during batch request utility job steps. To use this feature:

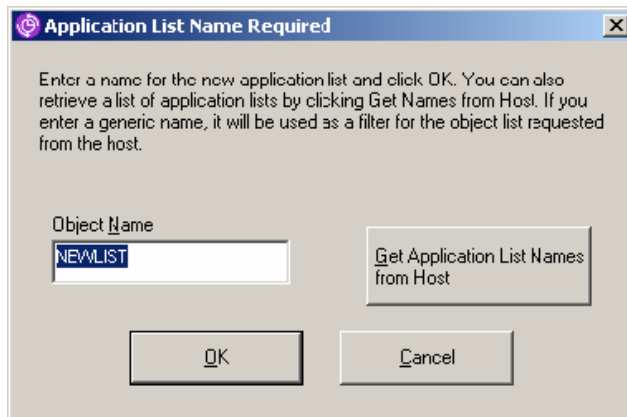
- Click the **Application Lists** folder in the tree pane on the left side of the CICS BAC main window. This is the subfolder in which new or downloaded application lists are stored.



2. Select **File > New > Application list object** or click the down arrow next to the **New** icon on the toolbar and select **Application List** from the drop-down menu.



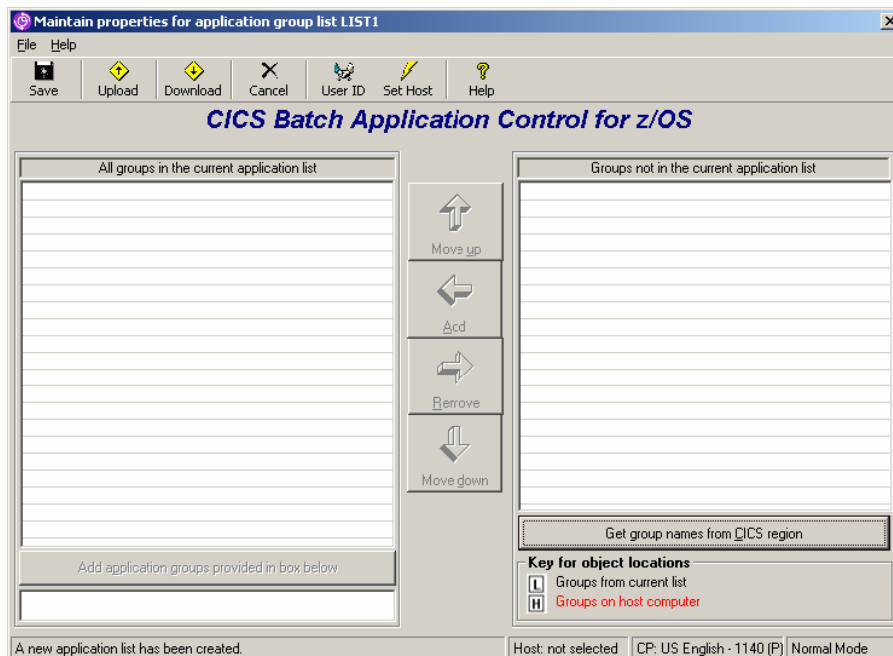
3. This displays a dialog box that you can use to specify the new list name.



4. Choose one of the following options:

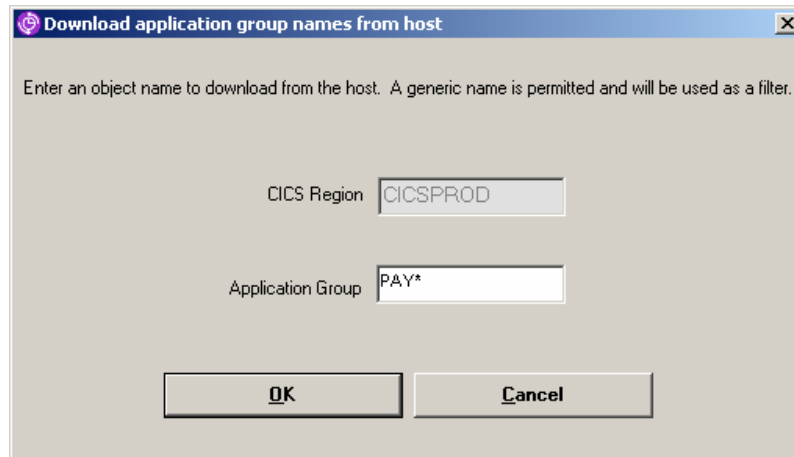
- Enter a name for the list (such as "LIST1") that is unique among other application list names in the subfolder for the CICS region and click **OK**. You cannot use NEWLIST as the name.
- Click **Browse Host for Existing Application Lists** and use the resulting dialog box to view, select, and download existing CICS BAC application lists from the host.

This opens the main window for your new application list.



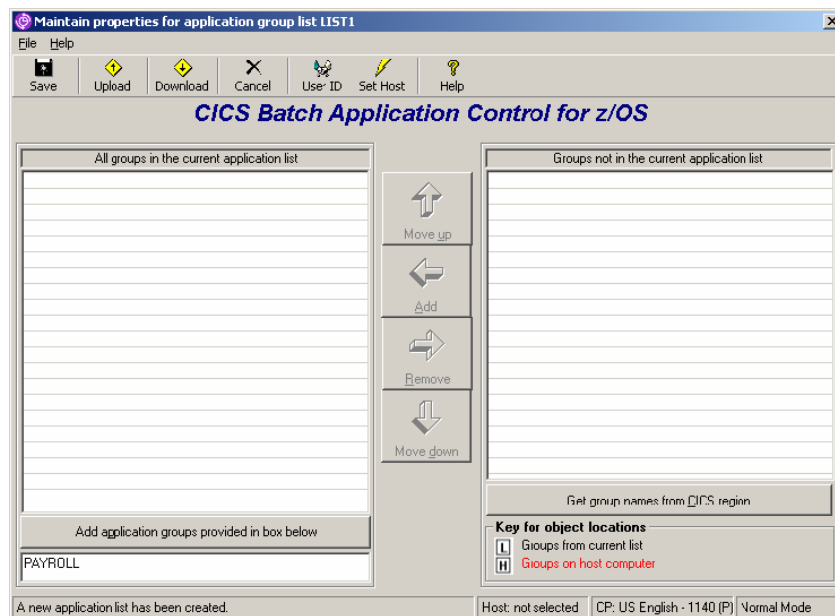
5. If you have already downloaded an application list from the host computer, the list of application groups is displayed. At this point, you have two additional options:

- You can browse and add individual groups from the host computer by clicking the button labeled **Get group names from CICS region** at the lower right on this window. This opens the Download Application Group Names dialog box.

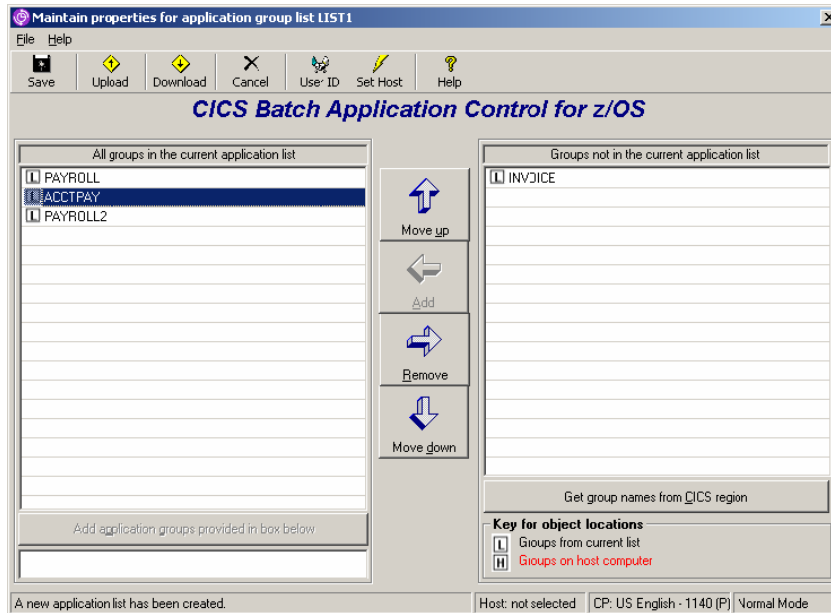


You can specify a filter for the application group names, such as "PAY*." Click **OK** when finished.

- You can enter specific group names in the text field at the lower left corner of the window, then add the specified groups to the list by clicking the button labeled **Add application groups provided in box below**. You can enter multiple group names by using commas or spaces as delimiters between the names.



6. Once you have selected all the groups to be included, use the controls in the middle of the dialog box to arrange the group names in your application list.



- To add a group to the list, select it from the right panel and click the **Add** button.
 - To remove a group from the list, select it from the left panel and click the **Remove** button.
 - To rearrange the list in the left panel, click an item to be moved and then use the **Move up** or **Move down** buttons.
7. To save your changes, select **File > Save** or click the **Save** icon. To cancel any changes since the window was opened or since the last save, click the **Cancel** icon.
 8. When you are finished customizing this application list, select **File > Close** Window to exit.
 9. Repeat this procedure for additional application lists that you want to define in the current CICS region or in any others.

Renaming objects

CICS BAC allows you to rename any new objects that you create, but you cannot rename the object folders (Files, TDQueues, etc.). To rename an object:

1. Click twice slowly on the object name in the view pane. This should open the name for editing.
2. Type the new name and press the **Enter** key.

Moving or copying object definitions

Once you have created an object definition, you can easily move it or copy it to a different region. This is useful, for example, if you want to set the batch control properties of a file, then copy it to other regions or move it between regions. This saves you the work of having to define the same settings in multiple regions.

1. In the tree pane on the left side of the CICS BAC main window, select the folder containing the object to be moved or copied.
2. Select the object and use one of the following options:

- To move the object, select the **Cut** icon on the toolbar or select **Edit > Cut** from the menu bar.
 - To copy the object, select the **Copy** icon on the toolbar or select **Edit > Copy** from the menu bar.
3. Select the object folder to which you want to move or copy the object.

Note: This must be the same type of object folder that contained the original object. For instance, you can move a File definition from the Files folder in one region to the Files folder in a different region. But you cannot move it from a Files folder to a Programs folder.
 4. Select the **Paste** icon on the toolbar or select **Edit > Paste** from the menu bar. The file is moved or copied automatically when you perform this action.

Deleting objects

CICS BAC allows you to delete any new objects that you create, but you cannot delete the object folders (Files, TDQueues, etc.) individually. Deleting an object removes all of the object settings so that they are no longer available for uploading to the mainframe host. If you have spent some time customizing these settings, make sure they are uploaded to the mainframe host before deleting them.

Note: You can set your preferences so that objects are deleted automatically when you upload them. Alternately, you can set preferences so that CICS BAC prompts you whether or not to delete after uploading, instead of deleting them automatically. You can also delete all object folders under a specific region folder if you delete the region folder.

To delete an individual object:

1. In the tree pane on the left side of the CICS BAC main window, select the folder containing the object to be deleted.
2. Click the Delete icon on the toolbar or select **File > Delete > object type**. CICS BAC displays a warning and asks you to confirm the deletion.
3. Click **OK** key to delete the object.

Deleting region folders

CICS BAC allows you to delete any individual region folder in the tree pane, but you cannot delete the individual object folders (Files, TDQueues, etc.) under a region folder. Deleting a region folder removes all of the definitions for that region. If you have spent some time customizing the settings for a region, make sure they are uploaded to the mainframe host before deleting the region folder.

Note: You can set your preferences so that folders and objects are deleted automatically when you upload them. Alternately, you can set preferences so that CICS BAC prompts you whether or not to delete after uploading, instead of deleting them automatically.

To delete a region folder:

1. In the tree pane on the left side of the CICS BAC main window, select the folder to be deleted.
2. Click the **Delete** icon on the toolbar or select **File > Delete > CICS region folder**. CICS BAC displays a warning and asks you to confirm the deletion.
3. Click **OK** key to delete the folder.

Chapter 4. Region properties

Understanding CICS region properties

When you create a new region folder, it represents a CICS region control file on the host mainframe computer, and contains default properties and resource objects that have been defined within CICS BAC to represent actual resources in a CICS region.

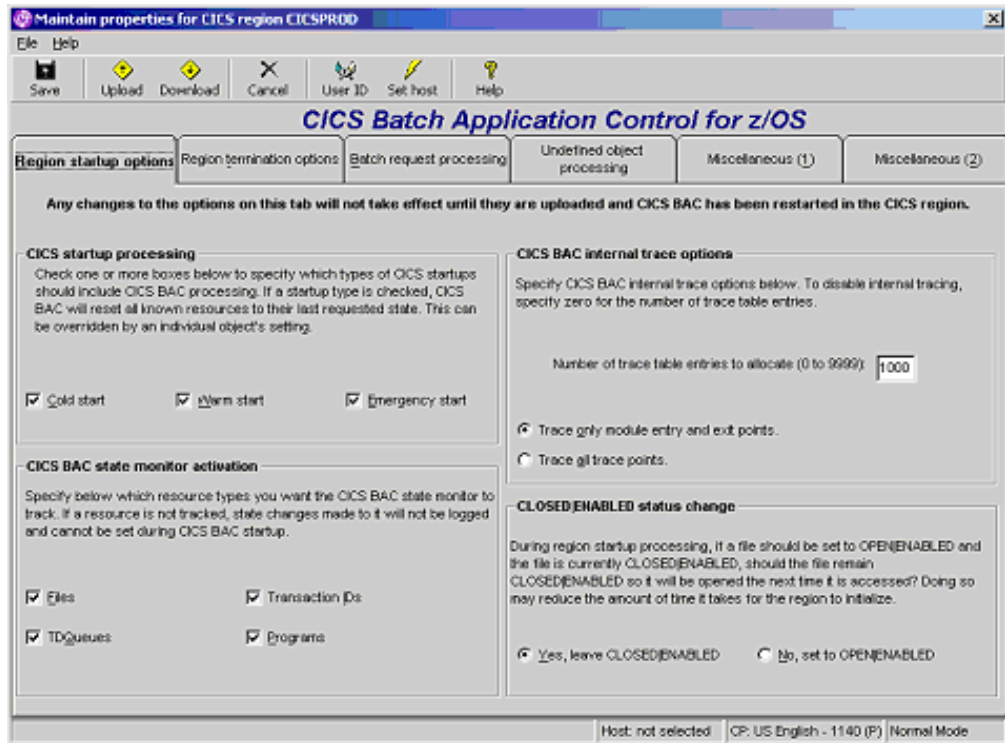
The region folder contains its own Region Properties object that specifies appropriate behavior for CICS BAC during region startup.

- Region startup options
- Region termination options
- Batch request processing
- Undefined object processing
- Miscellaneous options

You can view these parameters by double-clicking the Region Properties object in a region folder. Each of these properties represents a tab in the Region Properties window. Each tab contains comments in bold that denote when changes to the various properties will take effect after uploading the region properties to the CICS region control file. For more details, refer to the sections explaining each type of region properties parameter, later in this document.

Region startup options

The following settings specify appropriate behavior for CICS BAC during region startup.



CICS startup processing

Check one or more of these options to specify which types of CICS startups should include CICS BAC resource processing. If a startup type is checked, the state of all resources in the region defined to CICS BAC will be set to their last requested state at the end of the CICS region's initialization process. Startup processing options can be overridden at the resource object level.

CICS BAC state monitor activation

Specify which types of resources you want the CICS BAC state monitor to track for this region. If a resource type is not selected here, any changes in state to that type of resource requested by a means other than the CICS BAC batch request utility (such as the CEMT SET command) will not be tracked.

- **Files.** Tracks requests for changes in file status.
- **TDQueues.** Tracks requests for changes in TDQueue status.
- **TransIDs.** Tracks requests for changes in transaction ID status.
- **Programs.** Tracks requests for changes in program status.

CICS BAC internal trace options

CICS BAC has its own trace facility for diagnostic purposes. You can give it a table size number and tell it what to trace. Entries are as follows:

- **Number of trace table entries to allocate.** Set this number to signify the number of trace entries that will be allocated for the CICS BAC trace table. A single entry occupies 128 bytes in CICS private storage above the line. Specify zero to turn off the internal trace.
- **Trace only module entry and exit points.** Turn this option on if you want to trace only CICS BAC program module entry/exit points.

- **Trace all trace points.** Turn this option on if you want to trace all points.

CLOSED / ENABLED status change

Indicate how to handle status changes for files for this region during CICS region startup. To reduce region initialization time, CICS allows you to define a file that is not allocated and opened until the first time it is referenced. Instead, its state is left at closed/enabled until the file is referenced. Doing so 'spreads out' the overhead of opening many files during CICS initialization, resulting in a faster CICS region initialization process.

Specifying 'Yes' tells CICS BAC that during CICS region initialization, if it encounters a file whose last requested status was OPEN/ENABLED, it should allow the file to remain in the CLOSED/ENABLED state during startup processing.

Region termination options

The following settings specify appropriate behavior for CICS BAC workstation administration client requests and the CICS BAC batch request utility if the CICS region is not available AND the region terminated abnormally on its last shutdown (i.e., it did not undergo normal PLTSD shutdown processing).

Maintain properties for CICS region CICSPRD0

File Help

Save Upload Download Cancel User ID Set host Help

CICS Batch Application Control for z/OS

Region startup options **Region termination options** Batch request processing Undefined object processing Miscellaneous (1) Miscellaneous (2)

Any changes to the options on this tab will take effect immediately after they are uploaded to the region control file.

CICS abnormal termination options for workstation client requests

Specify the action to be taken by the CICS BAC workstation client if the CICS region is not available and the last time the region was shut down, it did not go through normal (PLTSD) shutdown processing.

☒ Continue processing the client upload, download, or query request as if the region had shut down normally.

☐ Reject the client upload, download, or query request.

Should the CICS region's shutdown flag be reset to normal in addition to the action taken above?

☒ Yes ☐ No

CICS abnormal termination options for batch request utility

Specify the action to be taken by the CICS BAC batch request utility if the CICS region is not available and the last time the region was shut down, it did not go through normal (PLTSD) shutdown processing.

☐ Continue processing as if the region had shut down normally.

☐ Terminate the batch request utility job step with return code:

☐ Abend the batch request utility job step with user abend code:

☒ Write a message to the MVS console and wait for a reply to determine what action should be done.

Should the CICS region's shutdown status flag be reset to normal in addition to the action taken above?

☒ Yes ☐ No

Host: not selected CP: US English - 1140 (P) Normal Mode

CICS abnormal termination options for workstation client requests

These options specify the action to be taken for the CICS BAC workstation client requests (for example, upload/download requests) if the CICS region is not available due to abnormal termination:

- **Continue processing.** CICS BAC will continue processing the request as if the region had shut down normally.
- **Reject.** CICS BAC will ignore the request and the client will receive a message stating the request failed.

- **Set shutdown flag.** Click "Yes" or "No" to indicate whether the region shutdown flag should be reset to normal in addition to the action taken above.

CICS abnormal termination options for batch request utility requests

These options specify the action to be taken by the CICS BAC batch request utility if the CICS region is not available due to abnormal shutdown:

- **Continue processing.** CICS BAC will continue processing the request as if the region had shut down normally.
- **Terminate with return code.** CICS BAC will terminate the job step with the return code entered in this text field.
- **Abend with abend code.** CICS BAC will abend the job step using the abend code entered in this text field.
- **Write a message.** CICS BAC will write a message to the MVS™ system console and wait for a reply to determine what further action should be taken.
- **Set shutdown flag.** Click "Yes" or "No" to indicate whether the region shutdown flag should be reset to normal in addition to the action taken above.

Batch request processing

The following settings specify appropriate behavior for the CICS batch request utility during batch request processing.

The screenshot shows the 'Maintain properties for CICS region CICSPROD' dialog box. The 'Batch request processing' tab is selected. The dialog has a menu bar with 'File' and 'Help', and a toolbar with 'Save', 'Upload', 'Download', 'Cancel', 'User ID', 'Set host', and 'Help'. Below the toolbar is a title bar 'CICS Batch Application Control for z/OS'. The main area contains several tabs: 'Region startup options', 'Region termination options', 'Batch request processing' (selected), 'Undefined object processing', 'Miscellaneous (1)', and 'Miscellaneous (2)'. A note states: 'Any changes to the options on this tab will take effect immediately after they are uploaded to the CICS region control file.' The 'Batch request processing' tab is divided into two main sections. The left section, 'Batch request utility command types', contains a list of command types with checkboxes: 'Set file commands' (checked), 'Set TDQueue commands' (checked), 'Set transaction ID commands' (checked), 'Set program commands' (checked), 'RUNCM commands' (checked), 'LINK commands' (checked), and 'START commands' (checked). The right section, 'Disallowed command action', contains a label 'Indicate below the action to be taken if a disallowed command is encountered.' and three radio buttons: 'Ignore the command or object and continue with next command or object.' (selected), 'Terminate the batch request utility job step with return code:' (with a text field containing '12'), and 'Abend the batch request utility job step with abend code:' (with a text field). Below this is a section 'CLOSED/ENABLED status change' with a label 'If a batch request utility command attempts to set a file to OPEN/ENABLED, and the file is currently CLOSED/ENABLED, should the file remain CLOSED/ENABLED so it will be opened the next time it is accessed?' and two radio buttons: 'Yes, leave CLOSED/ENABLED' (selected) and 'No, set to OPEN/ENABLED'. At the bottom right, there is a status bar showing 'Host: not selected' and 'CP: US English - 1140 (P) | Normal Mode'.

Batch request utility command types

These options specify the types of commands that CICS BAC will allow to be executed in this region. This is a powerful way to allow/disallow certain types of commands from a central screen. You can allow or disallow the following command types when processing batch utility requests in this region:

- Set file commands

- Set TDQueue commands
- Set transaction ID commands
- Set program commands
- RUNCEMT commands
- LINK commands
- START commands

Disallowed request action

These options specify the action to be taken if a CICS BAC request is not allowed:

- **Ignore request.** CICS BAC will ignore the command and continue processing with the next request in the command stream.
- **Terminate with return code.** CICS BAC will terminate the job step with the return code entered in this text field.
- **Terminate with abend code.** CICS BAC will abend the job step with the abend code entered in this text field.

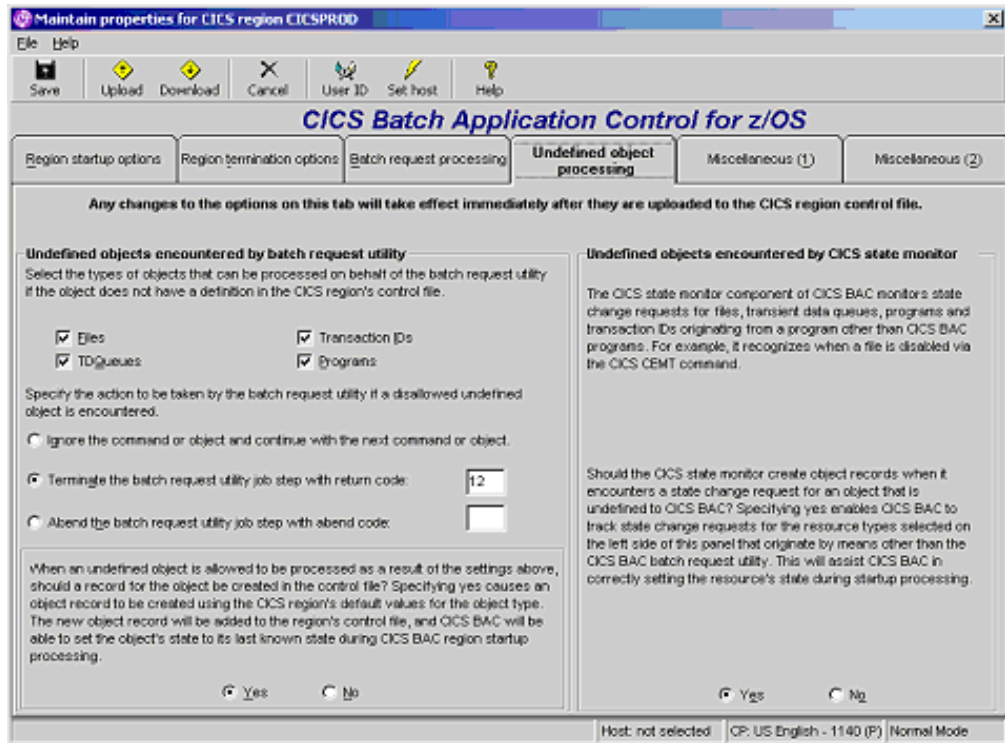
CLOSED / ENABLED status change

Indicate the action to be taken during batch request utility processing when a command is encountered to set a file to open/enabled for a file that is currently closed/enabled. You have the following choices:

- **Yes, leave closed/enabled.** The file will remain closed and enabled when batch request processing is finished.
- **No, set to open/enabled.** The requested change in status will be honored.

Undefined object processing

In some situations, a batch request utility job step may contain a command to change the state of a particular resource, even though the resource has not yet been defined to CICS BAC. This results in an "undefined object" in CICS terminology. Likewise, if the CICS BAC state change monitor is active and tracking resource state changes, it may encounter a state change request for an undefined resource. The following settings specify appropriate behavior for the CICS BAC batch request utility when it encounters an undefined object during batch request processing.



Undefined objects encountered by batch request utility

These options specify the types of objects that can be processed on behalf of the batch request utility if the object is not defined in the CICS region control file. To select an object type, turn on its checkbox:

- Files
- TDQueues
- Transaction IDs
- Programs

You can also specify what action should be taken by the batch request utility if CICS does not allow an undefined object to be processed:

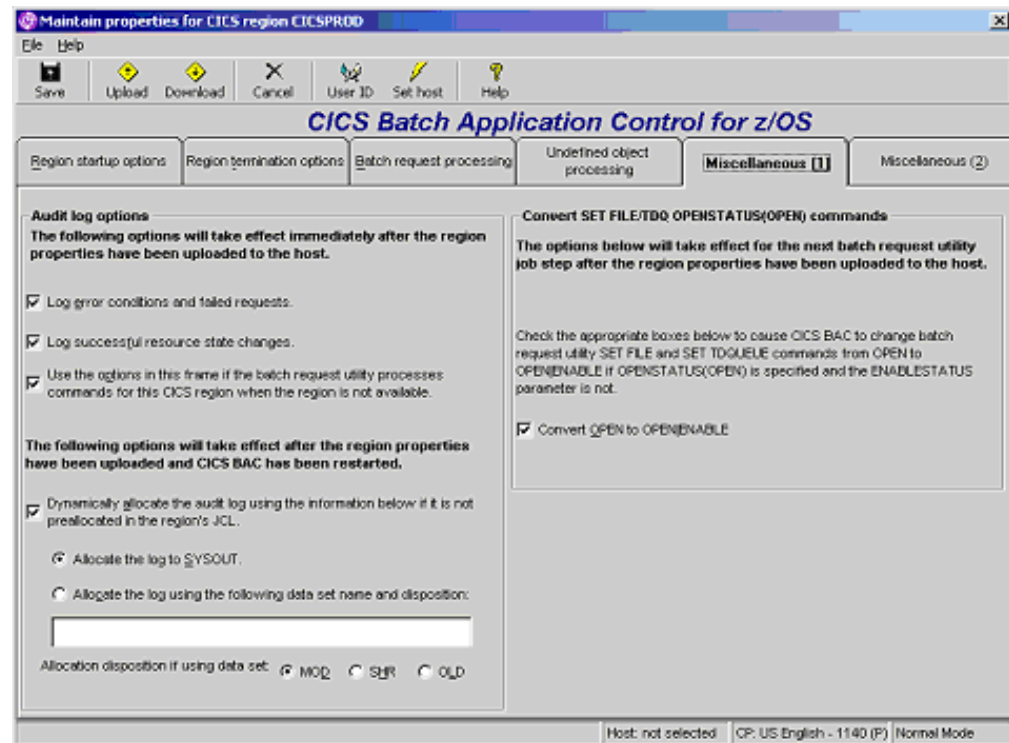
- **Ignore request.** CICS BAC will ignore the request for the object and continue with the next request.
- **Terminate with return code.** CICS BAC will terminate the job step with the return code entered in this text field.
- **Abend with abend code.** CICS BAC will abend the job step and use the abend code entered in this text field.

Finally, you can specify whether a record should be created in the control file for an undefined object that is processed as a result of the settings above (e.g., the batch request utility job step is not terminated or abended). Select either of the following choices:

- **Yes.** This causes an object to be created using the default values for the object type for the CICS region and added to the control file.
- **No.** The request will be processed (e.g., the state change will be performed), but the object's record will not be created or written to the control file.

Miscellaneous (1) options

The following settings control miscellaneous options for various actions performed or tracked by CICS BAC, such as audit log options.



Audit log options

These options specify what conditions will be written to the audit log. Once you upload these selections to the host, they will be put into effect the next time CICS BAC is started in the CICS region and the batch request utility runs.

- **Log error conditions and failed requests.** If checked, CICS BAC will write log records for any error conditions or failed requests to the audit log.
- **Log successful resource state changes.** If checked, CICS BAC will write an entry in the audit log each time there is a successful change in the status of a region's resources.
- **Dynamically allocate the audit log.** If this box is checked and the audit log is not preallocated, you can specify where the audit log will be allocated:
 - allocate to SYSOUT
 - allocate using an existing data set name (entered in the text field) and the selected disposition: MOD, SHR, or OLD.
- **Use options above if...** If this box is checked, CICS BAC will use the above options to determine whether or not logging should be performed by the batch request utility if the target CICS region is not available.

Convert SET FILE/TDQ OPENSTATUS(OPEN) commands

These options specify the action to be taken by the CICS BAC batch request utility SET FILE and SET TDQUEUE commands if the OPENSTATUS(OPEN) parameter is specified AND the ENABLESTATUS parameter is NOT specified:

- **Convert OPEN to OPEN/ENABLED.** If checked, CICS BAC will convert batch request utility SET FILE/TDQ OPENSTATUS(OPEN) commands to OPENSTATUS(OPEN),ENABLESTATUS(ENABLE) if the command does not explicitly contain the ENABLESTATUS parameter.

Miscellaneous (2) options

The following settings control the processing CICS BAC will perform when the CICS BAC CICS request server encounters a command to open/close a file defined with RLSACCESS(YES). It also allows you to specify pre-command and post-command user exit programs.

The screenshot shows a window titled "Maintain properties for CICS region CICSPROD". The "Miscellaneous (2)" tab is selected. The window contains the following elements:

- Toolbar:** Save, Upload, Download, Cancel, User ID, Set host, Help.
- Navigation Tabs:** Region startup options, Region termination options, Batch request processing, Undefined object processing, Miscellaneous (1), **Miscellaneous (2)**.
- Text:** "The options below will take effect for the next batch request utility job step after the region properties have been uploaded to the host."
- Default VSAM RLS options:**
 - Specify the option to be taken when a batch request utility SET FILE command is encountered, and the target file is defined with RLSACCESS(YES):
 - ☐ Process SET FILE commands.
 - ☒ Ignore batch request utility SET FILE commands and continue with the next command.
 - ☐ Terminate the batch request utility job step with return code: [text field]
 - ☐ Abend the batch request utility job step with abend code: [text field]
- CICS command user exit programs:**
 - Specify the name(s) of your user-supplied exit program(s) to be driven during batch request utility command processing in the CICS region. Note that these exits will not be driven if the request is processed natively by the batch request utility.
 - Pre-command exit program: [text field]
 - Post-command exit program: [text field]
- Status Bar:** Host: not selected | CP: US English - 1140 (P) | Normal Mode

Default VSAM RLS options

These options specify the default action to be taken if the CICS BAC CICS request server encounters a command to open or close a file that is defined with RLSACCESS(YES), and the CICS BAC file object definition specifies to take the action specified in the CICS region definition. The following options are available.

- **Process SET FILE commands.** If checked, CICS BAC will process the command. If it is a command to close the file, CICS BAC will quiesce the data set associated with the file (if the file is not currently quiesced) before closing the file. If it is a command to open the file, CICS BAC will unquiesce the data set associated with the file (if it is currently quiesced) before opening the file.
- **Ignore batch request utility SET FILE command ...** If checked, CICS BAC will ignore open and close commands for the file. However, programs and transaction IDs associated with the file object will be processed as if the command was processed.
- **Terminate with return code.** If this box is checked, CICS BAC will terminate the job step with the return code entered in the associated text field.

- **Abend with abend code.** If this box is checked, CICS BAC will abend the job step with the abend code entered in the associated text field.

CICS command user exit programs

CICS BAC allows you to specify two exit programs that will be driven at various times when the CICS BAC CICS request server is processing commands. See the *CICS Batch Application Control for z/OS User's Guide* for more information on when the user exits are driven and how to write a user exit.

Chapter 5. File objects

Understanding file objects

A file object is a default or customized set of properties that represent a file in a given CICS region that may be affected by CICS BAC processing. You can define a set of file properties for any number of files in the CICS region. The following properties may be defined:

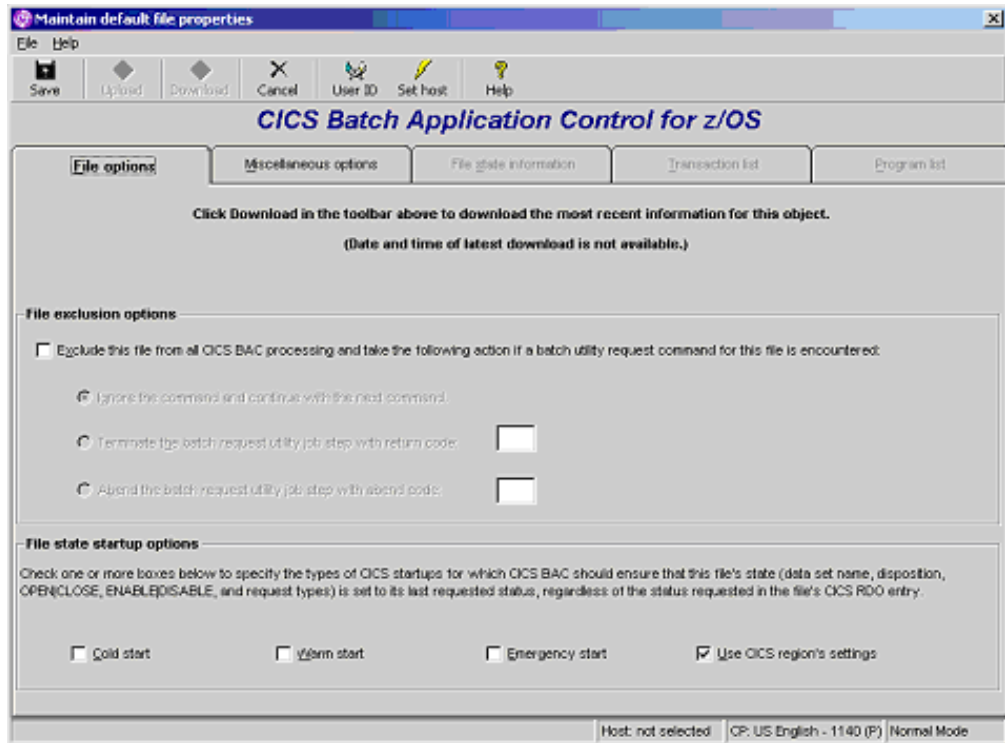
- File exclusion options
- File state startup options
- Primary and alternate data set names
- VSAM record level sharing (RLS) options
- A list of transaction IDs that use this file
- A list of programs that use this file

In addition, various information is displayed pertaining to the last time CICS BAC processed the file.

Setting defaults for all file objects

Before you start defining file objects, you may want to set the defaults for all file objects. These defaults are used to create the \$Default definition that is automatically placed in the Files folder each time you define a new CICS region, which in turn is used to set initial values for file objects that are subsequently defined in the CICS region folder. To set up the baseline set of defaults for all file objects:

1. Click the **Default Properties** folder in the tree pane.
2. Double-click **File** in the view pane.



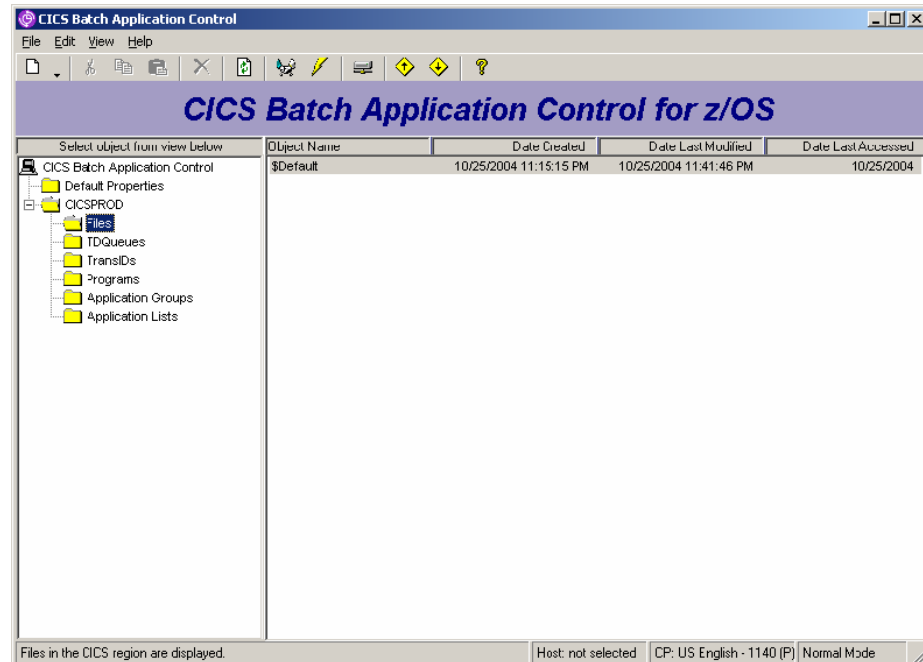
3. Set the default options on the first tab (File options), as desired. For more details on these settings, see “File object details” on page 48.
4. Set the default options on the second tab (Miscellaneous options), as desired. For more details on these settings, see “Miscellaneous options” on page 49.

Note: The other three tabs are not available since there are no available settings on these tabs that would make sense in a default context.

5. Click the Save icon or select File > Save to save your changes.
6. Select File > Close Window to exit this window

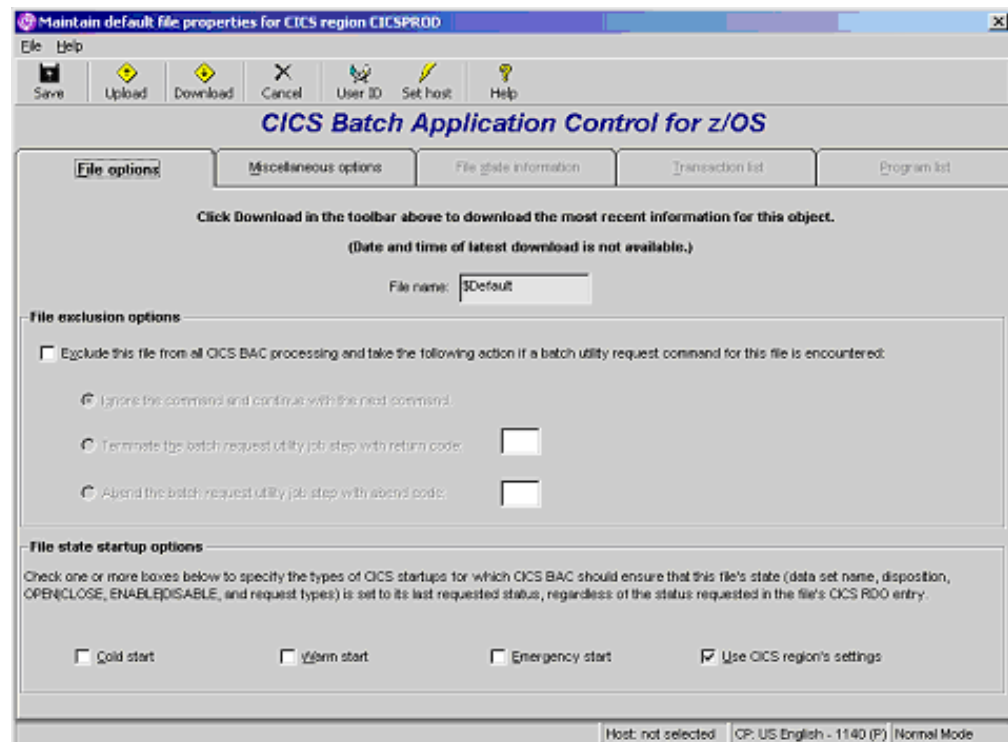
Modifying defaults for file objects within a region

When you create a new CICS region folder, CICS BAC creates subfolders for each object type under the CICS region folder. Inside the Files subfolder, it automatically places a \$Default object that is a copy of the File object in the Default Properties folder.



The \$Default object conveys its own default settings to any new file objects that you create. To change these settings:

1. Click on the applicable **Files** folder in the tree pane.
2. Double-click **\$Default** in the view pane.



3. Set the default options on the first tab (File options), as desired. For more details on these settings, see “File object details” on page 48.

4. Set the default options on the second tab (Miscellaneous options), as desired.
For more details on these settings, see “Miscellaneous options” on page 49.

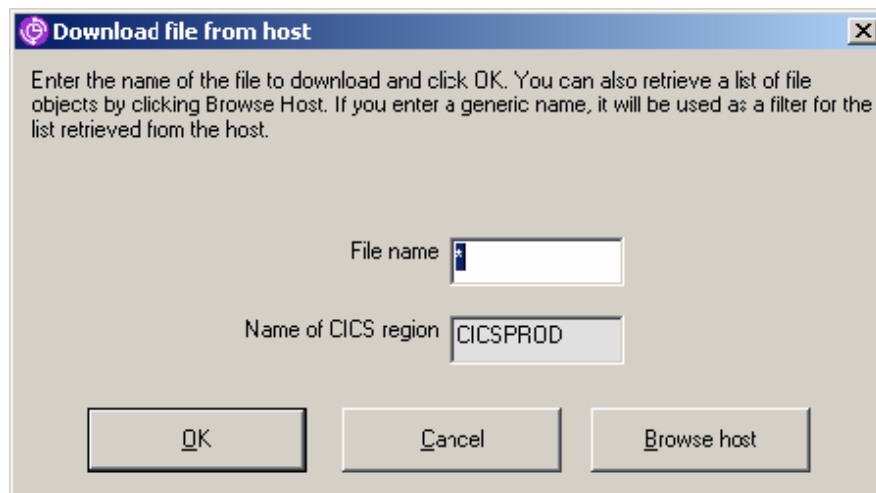
Note: The other three tabs are not available since there are no available settings on these tabs that would make sense in a default context.

5. Click the Save icon or select **File > Save** to save your changes.
6. Select **File > Close Window** to exit this window

Downloading file objects for a region

Before creating new file objects, you may want to download any existing file objects for the current region to get the most recent information from the mainframe host. Use these steps:

1. In the CICS BAC main window, select the Files folder in the target region.
2. Click the **Download** icon on the toolbar or select **File > Download** from **Host > file object**. This opens a special download dialog box.



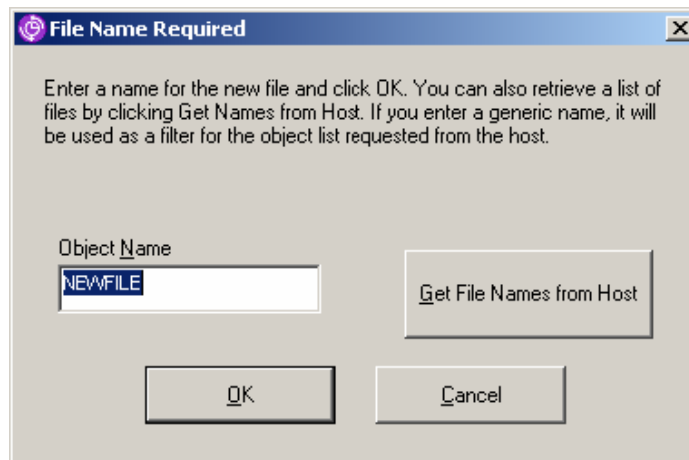
3. Enter the name of the file to download and click **OK**. You can also retrieve a list of objects by clicking the **Browse Host** button. If you enter a generic name, it will be used as a filter for the list retrieved from the host. When you click OK, CICS BAC connects to the mainframe, downloads the objects, and updates the Files folder. Alternatively, if you click the Browse host button, CICS BAC returns a list of files already in the CICS region's control file whose names match the filter provided. If you haven't already specified a host user ID and password, you will be asked to enter your user ID and password to complete the connection.
4. Open the file objects in the view pane to see the downloaded properties.

Creating new file objects

CICS BAC lets you define a set of customized properties for any number of file objects. These parameters govern how files will be processed by CICS BAC batch request utility job steps and CICS region initialization. When you are ready to start defining properties for a specific file:

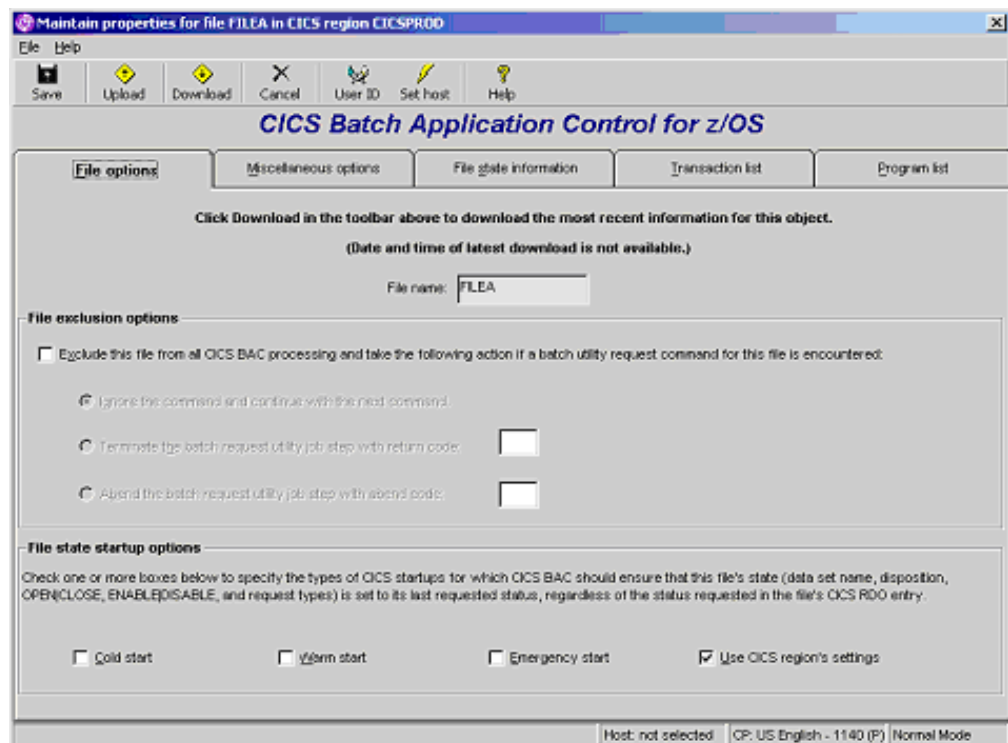
1. Select the appropriate File folder in the tree pane, then select **File > New > File object** on the CICS BAC menu bar or click the New icon on the toolbar and select File. This displays a dialog box that you can use to specify the new

object name.



2. Choose one of the following options:

- Enter a unique name for the object (such as "FILEA") and click OK. You cannot use NEWFILE as the name.
- Click **Browse Host for Existing Files** and use the resulting dialog box to view a list of matching names from the host, select, and download file object definitions from the host. This opens the File Properties window for your new file object.



Unlike the default settings, all tabs are now available for use. You can click each tab and define the appropriate settings as defined in **Help > Contents**. For details on each setting, see "File object details" on page 48.

3. To save your changes, select **File > Save** or click the **Save** icon. To cancel any changes since the window was opened or since the last save, click the **Cancel** icon.
4. When you are finished customizing the object properties for this file object, select **File > Close Window** to exit.

File object details

The following settings can be viewed and changed in the File Properties window using the tabs along the top:

- File options
- Miscellaneous options
- File state information
- Transaction list
- Program list

Before viewing these properties, you should download the latest information using the **Download** icon or by selecting **File > Download** this object from host. Any changes to these properties will not take effect until they are uploaded.

File options

The following settings specify appropriate behavior for CICS BAC file processing during CICS region initialization and batch request utility command processing.

Maintain properties for file FILEA in CICS region CICSPR00

File Help

Save Upload Download Cancel User ID Set host Help

CICS Batch Application Control for z/OS

File options Miscellaneous options File state information Transaction list Program list

Click Download in the toolbar above to download the most recent information for this object.
(Date and time of latest download is not available.)

File name: FILEA

File exclusion options

☐ Exclude this file from all CICS BAC processing and take the following action if a batch utility request command for this file is encountered:

☒ Ignore the command and continue with the next command.

☐ Terminate the batch request utility job step with return code:

☐ Abend the batch request utility job step with abend code:

File state startup options

Check one or more boxes below to specify the types of CICS startups for which CICS BAC should ensure that this file's state (data set name, disposition, OPEN/CLOSE, ENABLE/DISABLE, and request types) is set to its last requested status, regardless of the status requested in the file's CICS RDO entry.

☐ Cold start ☐ Warm start ☐ Emergency start ☒ Use CICS region's settings

Host: not selected CP: US English - 1140 (P) Normal Mode

File name

This is the name of the file for which the properties are being specified. This is a display-only field.

File exclusion options

Use this option to specify that CICS BAC should exclude this file from all processing, including batch request utility processing and CICS state monitoring. If this option is selected, you must also specify the action that CICS BAC should take if it encounters a batch request utility command for this file. You must choose one of the following three options:

- **Ignore and continue processing.** CICS BAC will ignore the command as if it was not encountered and continue processing with the next command.
- **Terminate with return code.** CICS BAC will not process any additional commands in the job step, and the batch request utility job step will be terminated with the return code specified.
- **Abend with abend code.** CICS BAC will not process any additional commands in the job step, and the batch request utility job step will be abended with the abend code specified.

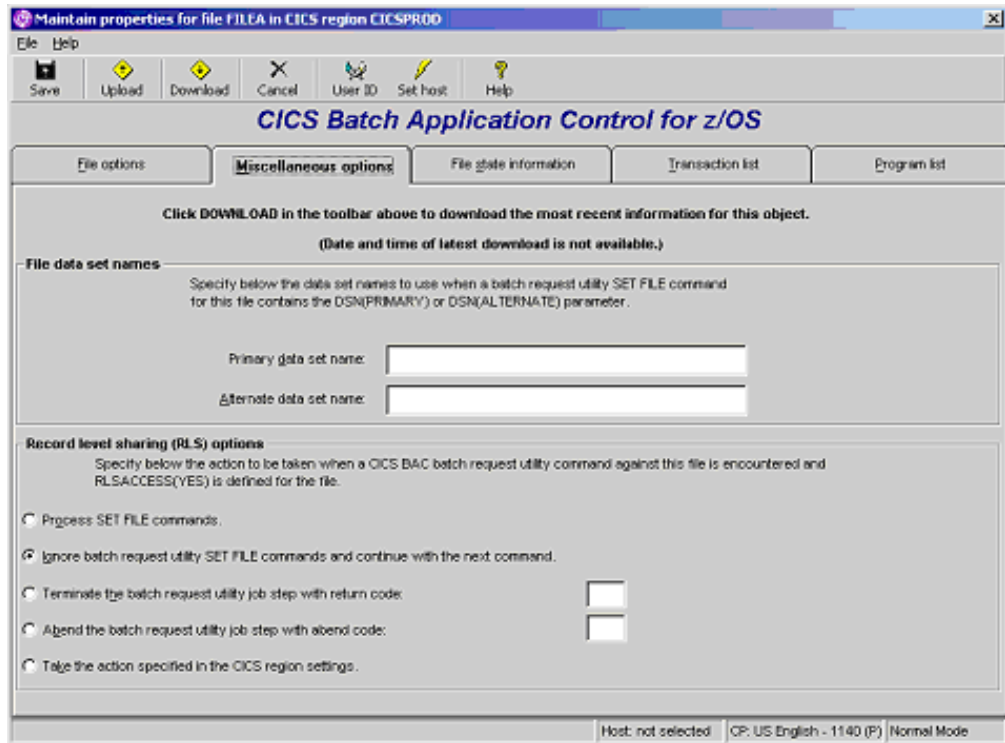
File state startup options

Specify the types of CICS startups during which CICS BAC should set the state of this file to its last requested state, including its OPENSTATUS, ENABLESTATUS, data set name, and access options. If any startup type is checked, CICS BAC will reset this file's state to its last requested state at the end of that type of CICS region initialization:

- **Cold start.** CICS BAC will restore the file's last requested state during a cold start of the CICS region.
- **Warm start.** CICS BAC will restore the file's last requested state during a warm start of the CICS region.
- **Emergency start.** CICS BAC will restore the file's last requested state during an emergency restart of the CICS region.
- **Use CICS region's defaults.** Depending on the type of startup, CICS BAC will use the CICS region's startup property (as defined by the region properties record for the CICS region) to determine whether or not it should reset a file to its last requested state.

Miscellaneous options

The following settings specify appropriate behavior for CICS BAC file processing during CICS region initialization and batch request utility command processing.



File data set names

Specify the data set name to use when a batch request utility job step invokes a SET FILE command containing the DSN(PRIMARY) or DSN(ALTERNATE) parameter.

- **Primary data set name.** This is the data set name to be used when the DSN(PRIMARY) parameter is specified in a command.
- **Alternate data set name.** This is the data set name to be used when the DSN(ALTERNATE) parameter is specified in a command.

Record level sharing (RLS) options

These options specify the default action to be taken if the CICS BAC CICS request server encounters a command to open or close the file, and the file is defined with RLSACCESS(YES). The following options are available:

- **Process SET FILE commands.** If checked, CICS BAC will process the command. If it is a command to close the file, CICS BAC will quiesce the data set associated with the file (if the file is not currently quiesced) before closing the file. If it is a command to open the file, CICS BAC will unquiesce the data set associated with the file (if it is currently quiesced) before opening the file.
- **Ignore batch request utility SET FILE command ...** If checked, CICS BAC will ignore open and close commands for the file. However, programs and transaction IDs associated with the file object will be processed as if the command was processed.
- **Terminate with return code.** If this box is checked, CICS BAC will terminate the job step with the return code entered in the associated text field.
- **Abend with abend code.** If this box is checked, CICS BAC will abend the job step with the abend code entered in the associated text field.

File state information

The file state information tab is the second tab available in the File Properties window. It contains read-only information downloaded from the host showing various information and states that were set or in effect the last time CICS BAC processed the file.

The screenshot shows a window titled "Maintain properties for file FILEA in CICS region CICSPROD". The window has a menu bar with "File" and "Help". Below the menu bar is a toolbar with icons for Save, Upload, Download, Cancel, User ID, Set host, and Help. The main area has a title bar "CICS Batch Application Control for z/OS" and four tabs: "File options", "Miscellaneous options", "File state information" (which is selected), "Transaction list", and "Program list".

Inside the "File state information" tab, there is a message: "Click Download in the toolbar above to download the most recent information for this object. (Date and time of latest download is not available.)". Below this is a "Data Set Name:" label followed by a text input field.

There are two main panels:

- Last processed:** Contains input fields for Date, Time, Job number, Job name, Procedure name, Job step name, System ID, and Processed by.
- Last state:** Contains input fields for Enabled or disabled, Open or closed, Readable, Browseable, Addable, Updatable, Deletable, Allocation disposition, and RLS access.

At the bottom of the window, there is a status bar with the text: "Host: not selected CP, US English - 1140 (P) Normal Mode".

Data set name

This is the host set name that corresponds to this file.

Last processed

This panel contains information about the last time CICS BAC processed this file, including date, time, job number/name, and more. Make sure you have downloaded the latest information from the host.

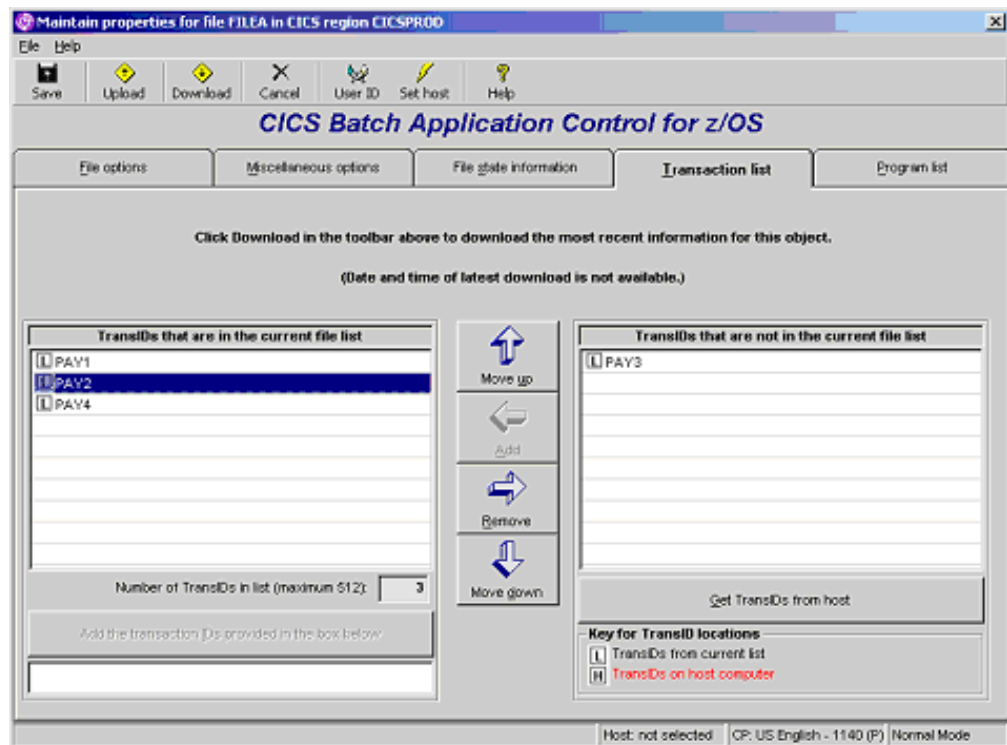
Last state

This panel contains information about the last requested state of the file, including enabled/disabled status, open/closed status, and more. Make sure you have downloaded the latest information from the host.

Transaction/program lists

The last two tabs in the File Properties window let you identify transactions and programs that will be processed by the batch request utility when a command to process this file is encountered. If the batch request utility command sets the file's state to OPENSTATUS(OPEN) and ENABLESTATUS(ENABLED), the programs and transactions will be set to ENABLESTATUS(ENABLED) after the file's state has been successfully set. If the batch request utility command sets the file's state to OPENSTATUS(CLOSED) or ENABLESTATUS(DISABLED), the programs and

transactions will be set to ENABLESTATUS(DISABLED) before the file's state is set. You can easily download transaction IDs and program names from a CICS region on the host and add them to the list using the controls provided.



If you have already downloaded a list from the host computer, the IDs are shown on these screens in red. At this point, you have two additional options:

- You can browse and add individual transaction IDs or program names from the host computer by clicking the buttons labeled **Get transaction IDs from host** on the Transaction List tab or **Get program names from CICS region** on the Program List tab. This opens a special box that you can use to enter the transaction ID or program name (or a suitable filter for downloading a list of related names).

Download transid names from host

Enter an object name to download from the host. A generic name is permitted and will be used as a filter.

CICS Region

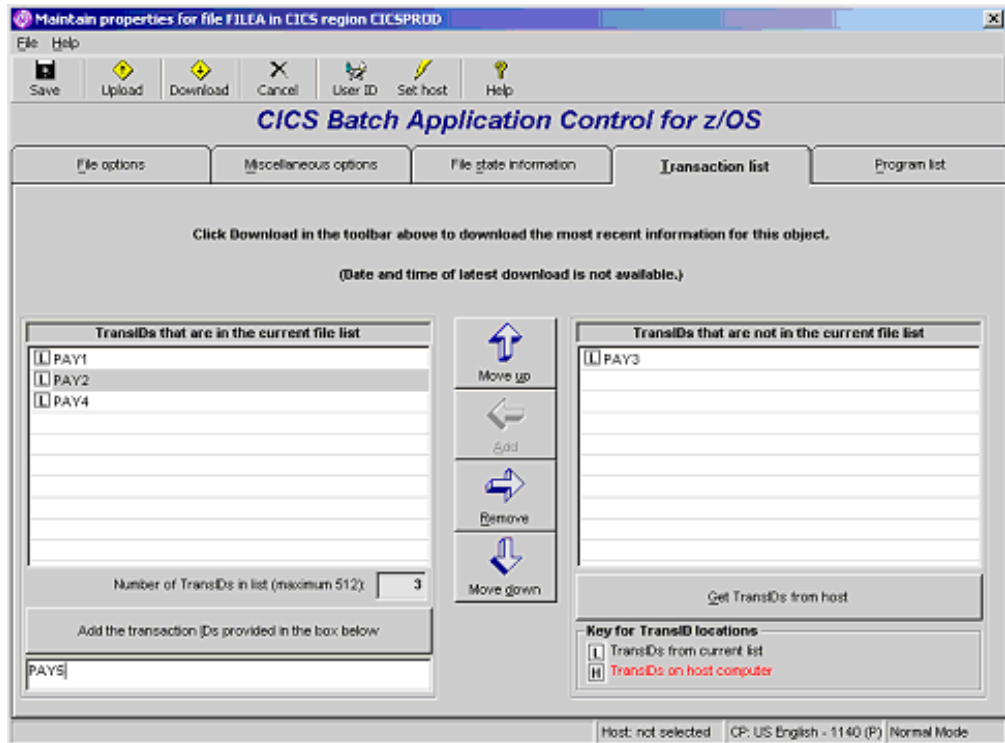
TransID name

Choose an option below to specify the method used to obtain the object names.

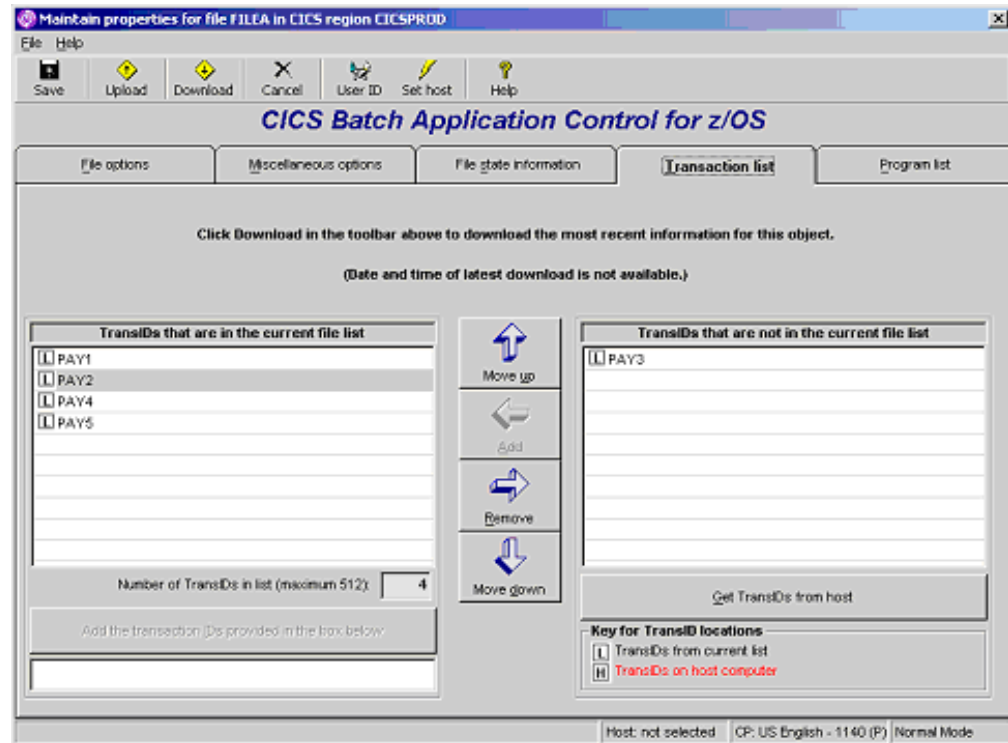
☒ Use EXEC CICS Inquire command to obtain object names.

☐ Browse CICS region's CICS BAC control file to obtain object names.

- Use this dialog to obtain object names from the host using the EXEC CICS Inquire command to retrieve a list of programs or transaction IDs defined in the CICS region, or by browsing the CICS region's CICS BAC control file. You can specify the object or a suitable filter in the upper half of the dialog box and the acquisition method in the lower half. Click **OK** when finished.
- You can also enter a specific object name in the text field (or multiple object names separated by a comma or space), then add the specified objects to the list by clicking the button labeled **Add objects provided in box below**.



- Once you have selected all the objects to be included, use the controls in the middle of the dialog box to arrange the objects in your lists. The list in the left column contains the transaction IDs or program names that you want to be processed during batch request utility commands containing the OPENSTATUS and/or ENABLESTATUS parameters for this file. The list in the right column includes transaction IDs or program names that aren't in the list on the left.



- To add a name to the file list, select it from the right panel and click the **Add** button.
- To remove name from the file list, select it from the left panel and click the **Remove** button.
- To rearrange the left-side list, click an item to be moved and then use the **Move up** or **Move down** buttons.

Chapter 6. TDQueue objects

Understanding TDQueue objects

A transient data queue (TDQueue) object is a default or customized set of properties that represent a TDQueue in a given CICS region that may be affected by CICS BAC processing. You can define a set of properties for any number of TDQueues in the CICS region. These include:

- TDQueue exclusion options
- TDQueue state startup options
- A list of transaction IDs associated with this TDQueue
- A list of programs associated with this TDQueue

In addition, various information is displayed pertaining to the last time CICS BAC processed the TDQueue.

Setting defaults for all TDQueue objects

Before you start defining TDQueue objects, you may want to set the defaults for all TDQueue objects. These defaults are used to create the \$Default definition that is automatically placed in the TDQueues folder each time you define a new CICS region, which in turn is used to set initial values for TDQueue objects that are subsequently defined in the CICS region folder. To set up the baseline set of defaults for all TDQueue objects:

1. Click the **Default Properties** folder in the tree pane.
2. Double-click **TDQueue** in the view pane. This opens the Default TDQueue Properties window.

The screenshot shows the 'Maintain default TDQueue properties' window. The title bar includes 'File' and 'Help' menus. The toolbar contains icons for Save, Upload, Download, Cancel, User ID, Set host, and Help. The main area has tabs for 'TDQueue options', 'Reserved for future use', 'TDQueue state information', 'Transaction list', and 'Program list'. The 'TDQueue options' tab is selected, showing a message: 'Click Download in the toolbar above to download the most recent information for this object. (Date and time of latest download is not available.)'. Below this are two sections: 'TDQueue exclusion options' and 'Transient Data Queue state start options'. The 'TDQueue exclusion options' section has a checkbox 'Exclude this TDQueue from all CICS BAC processing and take the following action if a batch utility request command for this TDQueue is encountered.' with three radio button options: 'Ignore the command and continue with the next command.', 'Terminate the batch request utility job step with return code', and 'Append the batch request utility job step with append code'. The 'Transient Data Queue state start options' section has a text box and four checkboxes: 'Cold start', 'Warm start', 'Emergency start', and 'Use CICS region's settings'. The status bar at the bottom shows 'Host: not selected', 'CP: US English - 1140 (P)', and 'Normal Mode'.

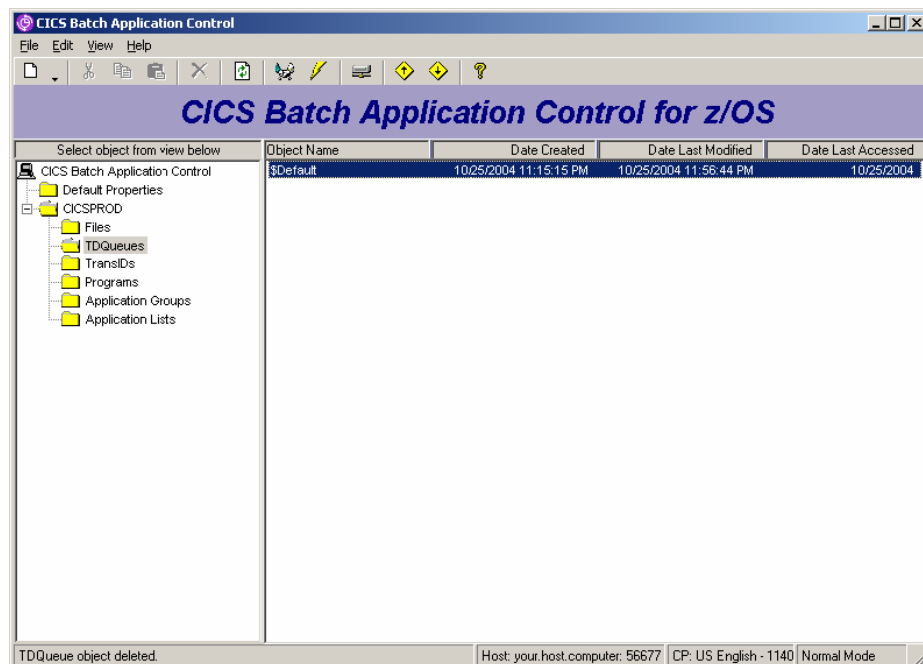
3. Set the default options on the first tab (TDQueue options), as desired. For more details on these settings, see “TDQueue object details” on page 61.

Note: The other four tabs are not available since there are no available settings on these tabs that would make sense in a default context.

4. Click the Save icon or select File > Save to save your changes.
5. Select File > Close Window to exit this window.

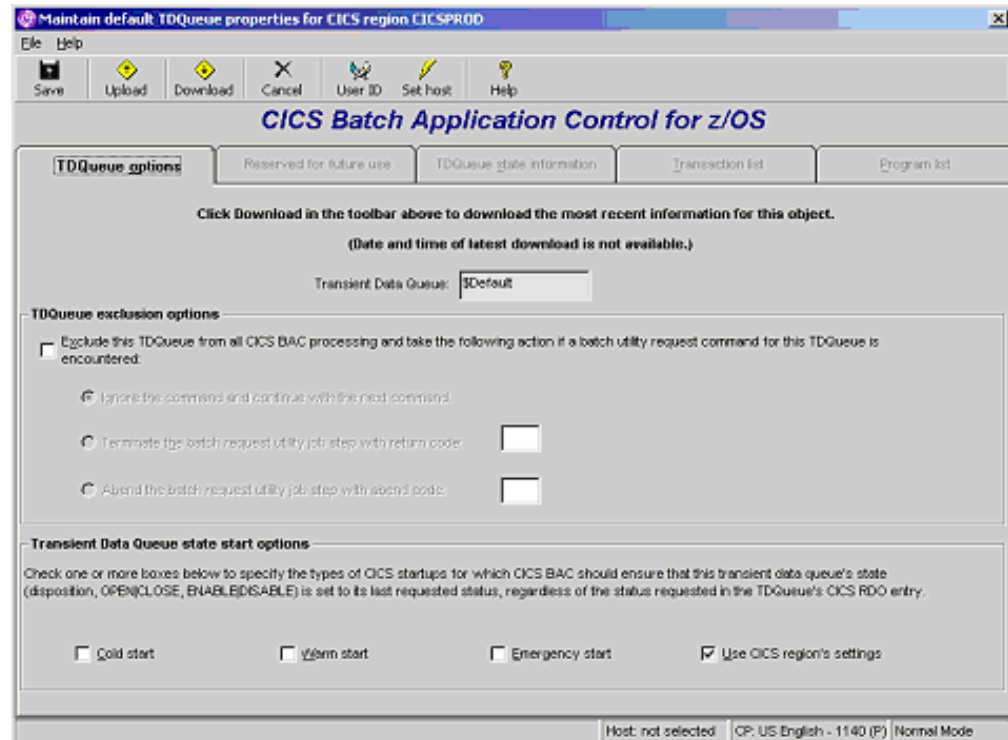
Modifying defaults for TDQueue objects within a region

When you create a new CICS region folder, CICS BAC creates subfolders for each object type under the CICS region folder. Inside the TDQueues subfolder, it automatically places a \$Default properties object that is a copy of the default TDQueue object in the Default Properties folder.



The \$Default object conveys its own default settings to any new TDQueue objects that you create. To change these settings:

1. Click on the applicable **TDQueues** folder in the tree pane.
2. Double-click **\$Default** in the view pane.



3. Set the default options on the first tab, as desired. For more details on these settings, see “TDQueue object details” on page 61.

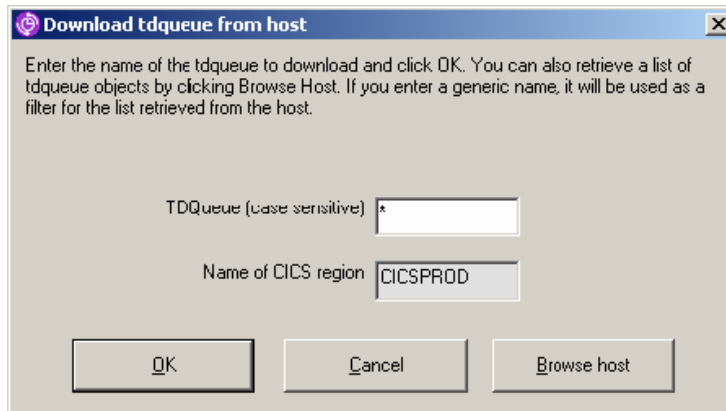
Note: The other four tabs are not available since there are no available settings on these tabs that would make sense in a default context.

4. Click the Save icon or select **File > Save** to save your changes.
5. Select **File > Close Window** to exit this window

Downloading TDQueue objects for a region

Before creating new TDQueue objects, you may want to download any existing TDQueue objects for the current region, to get the most recent information from the mainframe host. Use these steps:

1. In the CICS BAC main window, select the TDQueues folder in the target region.
2. Click the **Download** icon on the toolbar or select **File > Download from Host > TDQueue object**. This opens a special download dialog box.

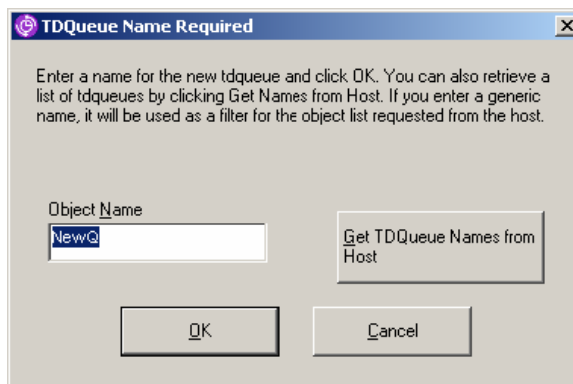


3. Enter the name of the TDQueue to download and click OK. You can also retrieve a list of objects by clicking the **Browse Host** button. If you enter a generic name, it will be used as a filter for the list retrieved from the host.
When you click OK, CICS BAC connects to the mainframe, downloads the objects, and updates the TDQueues folder. Alternatively, if you click the Browse host button, CICS BAC returns a list of TDQueues already in the CICS region's control file whose names match the filter provided. If you haven't already specified a host user ID and password, you will be asked to enter your user ID and password to complete the connection.
4. Open the TDQueue objects in the view pane to see the downloaded properties.

Creating new TDQueue objects

CICS BAC lets you define a set of customized properties for any number of TDQueue objects. These parameters govern how TDQueues will be processed by CICS BAC during the CICS region's startup processing. When you are ready to start defining properties for a specific TDQueue:

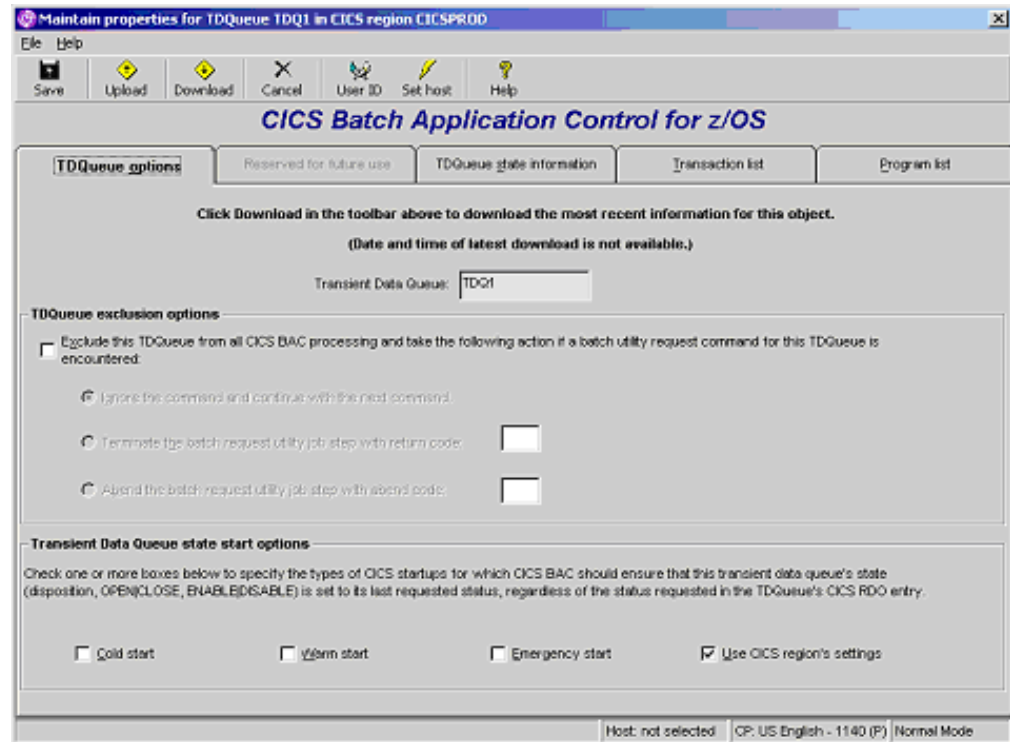
1. Select the appropriate TDQueue folder in the tree pane, then select **File > New > Transient data queue object** on the CICS BAC menu bar or click the **New** icon on the toolbar and select **Transient data queue**. This displays a dialog box that you can use to specify the new object name.



2. Choose one of the following options:
 - Enter a unique name for the object (such as "TDQ1") and click **OK**. You cannot use **NewQ** as the name.

- Click **Browse Host for Existing TDQueues** and use the resulting dialog box to view a list of matching names from the host, select, and download TDQueue object definitions from the host.

This opens the TDQueue Properties window for your new TDQueue object.



Unlike the default settings, all tabs except the “Reserved” tab are now available for use. You can click each tab and define the appropriate settings as defined in **Help > Contents**. For details on each setting, see “TDQueue object details.”

3. To save your changes, select **File > Save** or click the **Save** icon. To cancel any changes since the window was opened or since the last save, click the **Cancel** icon.
4. When you are finished customizing the object properties for this TDQueue object, select **File > Close Window** to exit.

TDQueue object details

The following settings can be viewed and changed in the TDQueue Properties window using the tabs along the top:

- TDQueue options
- TDQueue state information
- Transaction list
- Program list

Before viewing these properties, you should download the latest information using the **Download** icon or by selecting **File > Download this object from host**. Any changes to these properties will not take effect until they are uploaded.

TDQueue options

The following settings allow you to specify exclusion options for a TDQueue, and specify appropriate behavior for CICS BAC TDQueue processing during CICS region initialization if the TDQueue has not been excluded.

Maintain properties for TDQueue TDQ1 in CICS region CICSPROD

File Help

Save Upload Download Cancel User ID Set host Help

CICS Batch Application Control for z/OS

TDQueue options Reserved for future use TDQueue state information Transaction list Program list

Click Download in the toolbar above to download the most recent information for this object.
(Date and time of latest download is not available.)

Transient Data Queue: TDQ1

TDQueue exclusion options

☐ Exclude this TDQueue from all CICS BAC processing and take the following action if a batch utility request command for this TDQueue is encountered:

- ☒ Ignore the command and continue with the next command.
- ☐ Terminate the batch/request utility job step with return code:
- ☐ Abend the batch/request utility job step with abend code:

Transient Data Queue state start options

Check one or more boxes below to specify the types of CICS startups for which CICS BAC should ensure that this transient data queue's state (disposition, OPEN/CLOSE, ENABLE/DISABLE) is set to its last requested status, regardless of the status requested in the TDQueue's CICS RDO entry.

☐ Cold start ☐ Warm start ☐ Emergency start ☒ Use CICS region's settings

Host: not selected CP: US English - 1140 (P) Normal Mode

Transient data queue

This is the name of the TDQueue for which properties are being specified. These settings override the region settings for this TDQueue only. This is a display-only field.

TDQueue exclusion options

Use this option to specify that CICS BAC should exclude this TDQueue from all processing, including batch request utility processing and CICS state monitoring. If this option is selected, you must also specify the action that CICS BAC should take if it encounters a batch request utility command for this TDQueue. You must choose one of the following three options:

- **Ignore and continue processing.** CICS BAC will ignore the command as if it was not encountered and continue processing with the next command.
- **Terminate with return code.** CICS BAC will not process any additional commands in the job step, and the batch request utility job step will be terminated with the return code specified.
- **Abend with abend code.** CICS BAC will not process any additional commands in the job step, and the batch request utility job step will be abended with the abend code specified.

Transient data queue state start options

Specify the types of CICS startups during which CICS BAC should set the state of this TDQueue to its last requested state, including its OPENSTATUS and

ENABLESTATUS state. If any startup type is checked, CICS BAC will reset this TDQueue's state to its last requested state at the end of that type of CICS region initialization:

- **Cold start.** CICS BAC will restore the TDQueue's last requested state during a cold start of the CICS region.
- **Warm start.** CICS BAC will restore the TDQueue's last requested state during a warm start of the CICS region.
- **Emergency start.** CICS BAC will restore the TDQueue's last requested state during an emergency restart of the CICS region.
- **Use CICS region's defaults.** CICS BAC will use the CICS region's startup property as defined by the region properties record for the CICS region to determine whether or not it should reset a TDQueue to its last requested state depending on the type of startup.

TDQueue state information

The TDQueue state information tab is the second tab available in the TDQueue Properties window. It contains read-only information downloaded from the host showing various information and states that were set or in effect the last time CICS BAC processed the TDQueue.

The screenshot shows a window titled "Maintain properties for TDQueue TDQ1 in CICS region CICSPROD". The window has a menu bar with "File" and "Help", and a toolbar with icons for Save, Upload, Download, Cancel, User ID, Set host, and Help. Below the toolbar is the title "CICS Batch Application Control for z/OS". The window has four tabs: "TDQueue options", "Reserved for future use", "TDQueue state information" (which is selected), and "Transaction list". Below the tabs, there is a message: "Click Download in the toolbar above to download the most recent information for this object. (Date and time of latest download is not available.)". The main area is divided into two panels. The left panel is titled "Last processed" and contains fields for Date, Time, Job number, Job name, Procedure name, Job step name, System ID, and Processed by. The right panel is titled "Last state" and contains fields for Enabled or disabled and Open or closed. At the bottom of the window, there is a status bar that says "Host: not selected CP: US English - 1140 (P) Normal Mode".

Last processed

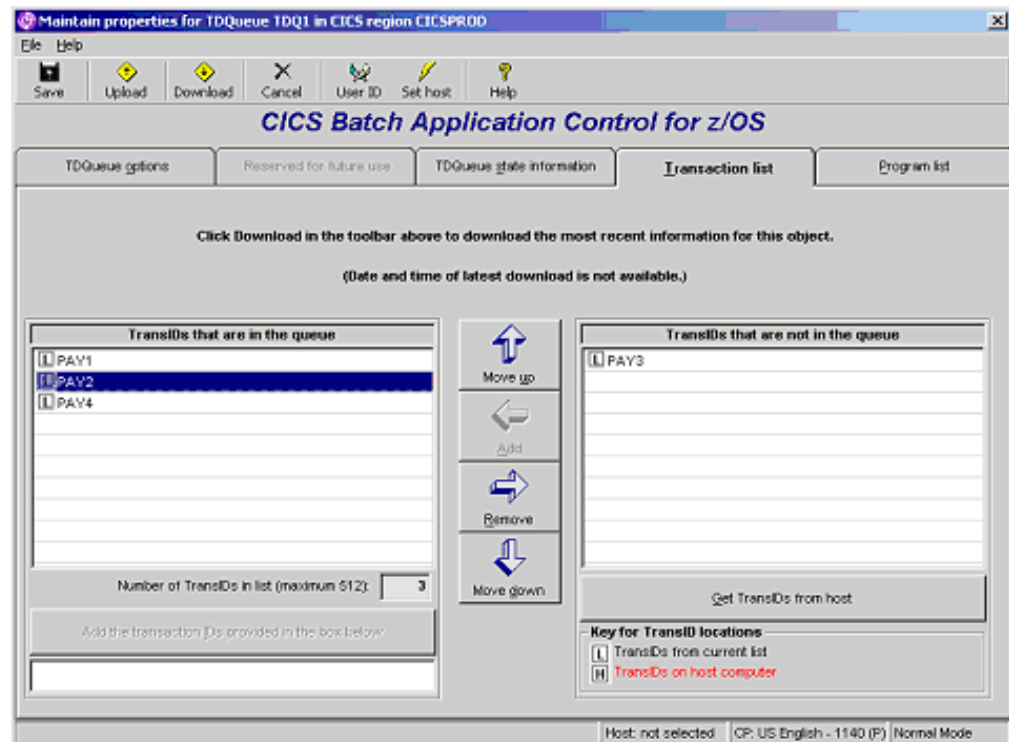
This panel contains information about the last time CICS BAC processed this TDQueue, including date, time, job number/name, and more. Make sure you have downloaded the latest information from the host.

Last state

This panel contains information about the last requested state of the TDQueue, including enabled/disabled status and open/closed status. Make sure you have downloaded the latest information from the host.

Transaction/program lists

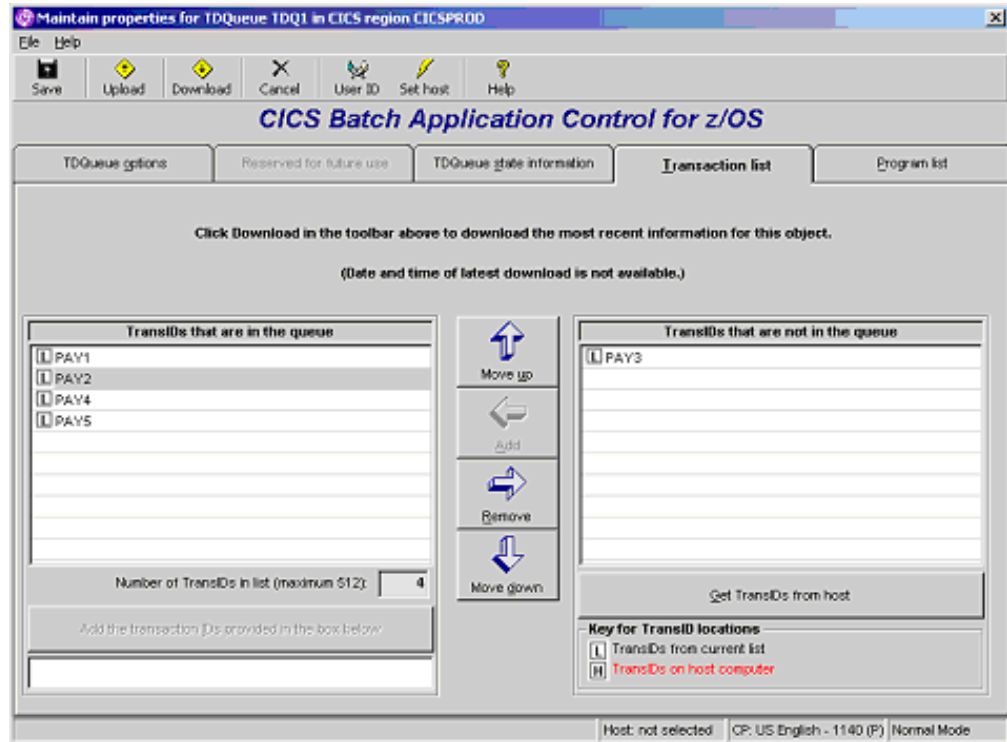
The last two tabs in the TDQueue Properties window let you identify transactions and programs that will be processed by the batch request utility when a command to process this TDQueue is encountered. If the batch request utility command sets the TDQueue's state to OPENSTATUS(OPEN) and ENABLESTATUS(ENABLED), the programs and transactions will be set to ENABLESTATUS(ENABLED) after the TDQueue's state has been successfully set. If the batch request utility command sets the TDQueue's state to OPENSTATUS(CLOSED) or ENABLESTATUS(DISABLED), the programs and transactions will be set to ENABLESTATUS(DISABLED) before the TDQueue's state is set. You can easily download transaction IDs and application names from a CICS region on the host and add them to the list using the controls provided.



If you have already downloaded a list from the host computer, the IDs are shown on these screens in red. At this point, you have two additional options:

- You can browse and add individual transaction IDs or program names from the host computer by clicking the buttons labeled Get transaction IDs from host on the Transaction List tab or Get program names from CICS region on the Program List tab. This opens a special box that you can use to enter the transaction ID or program name (or a suitable filter for downloading a list of related names).

Once you have selected all the objects to be included, use the controls in the middle of the dialog box to arrange the objects in your lists. The list in the left column contains the transaction IDs or program names that you want to be processed during batch request utility commands containing the OPENSTATUS and/or ENABLESTATUS parameters for this TDQueue. The list in the right column includes transaction IDs or program names that aren't in the list on the left.



- To add a name to the TDQueue list, select it from the right panel and click the **Add** button.
- To remove a name from the TDQueue list, select it from the left panel and click the **Remove** button.
- To rearrange the left-side list, click an item to be moved and then use the **Move** or **Move down** buttons.

Chapter 7. Transaction ID objects

Understanding transaction ID objects

A transaction ID (transID) object is a default or customized set of properties defined that represent a transaction ID defined in a CICS region that will be processed by CICS BAC. You can define a set of properties for any number of transaction IDs in the CICS region. These include:

- Transaction ID exclusion options
- Transaction ID state startup options

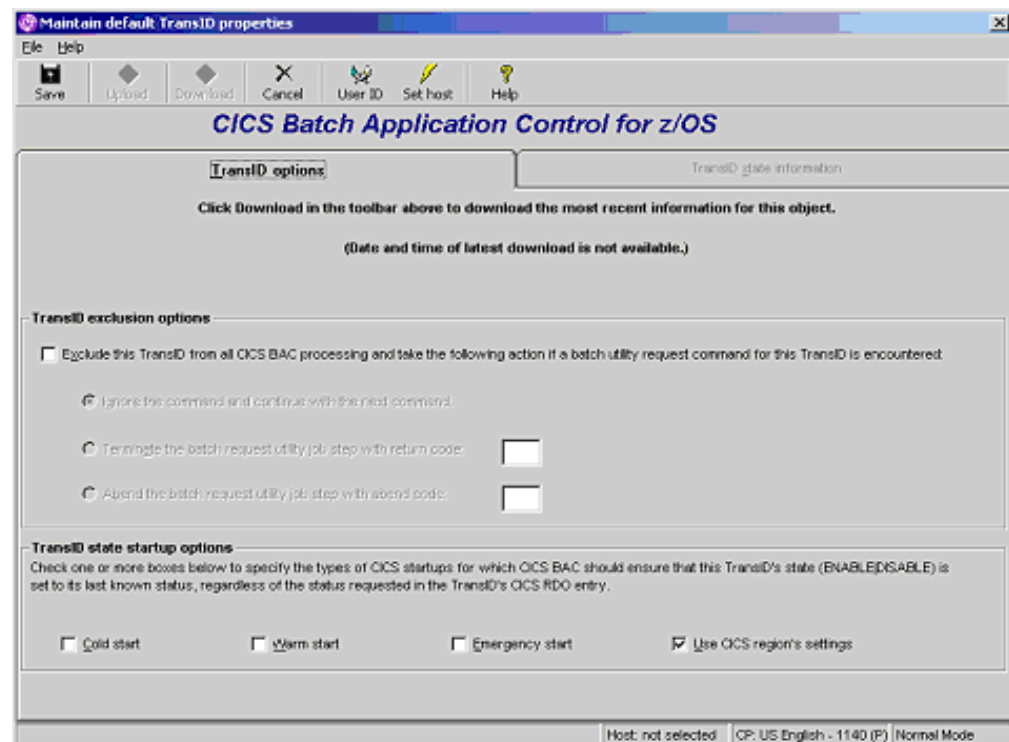
In addition, you can view the following information about transaction IDs that have been defined to CICS BAC:

- Last processed date, time, and other information
- Last state (enabled/disabled)

Setting defaults for all transaction ID objects

Before you start defining transaction ID objects, you may want to set the defaults for all transaction ID objects. These defaults are used to create the \$Default definition that is automatically placed in the transaction IDs folder each time you define a new CICS region, which is subsequently used to set the initial values for new program objects created in the CICS region's program subfolder. To set up the baseline set of defaults for all transaction ID objects:

1. Click the **Default Properties** folder in the tree pane.
2. Double-click **TransID** in the view pane. This opens the Default TransID Properties window.



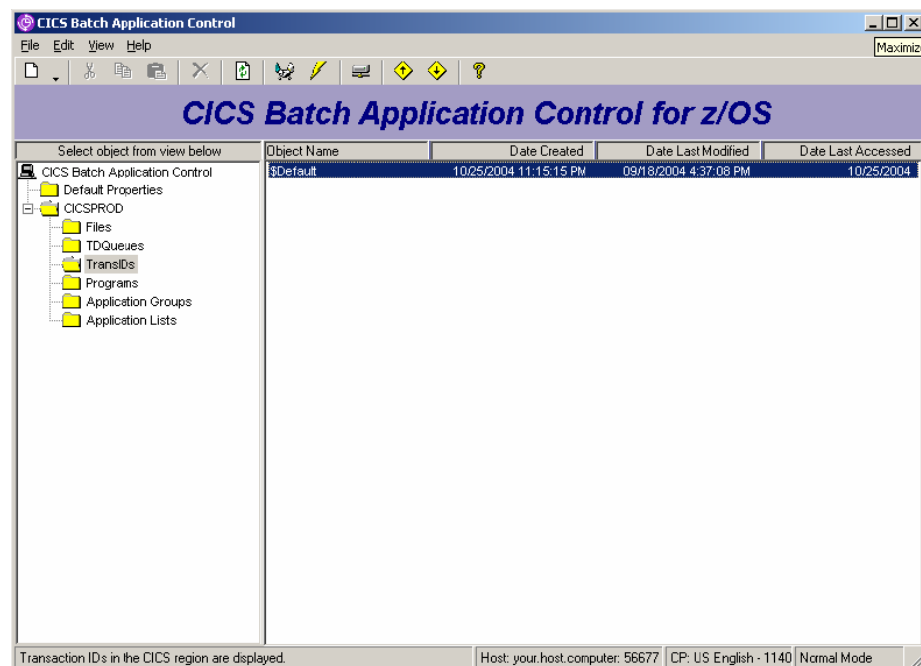
3. Set the default options as desired. For more details on these settings, see “TransID object details” on page 71.

Note: The second tab is not available since there is no available information on this tab that would make sense in a default context.

4. Click the Save icon or select **File > Save** to save your changes.
5. Select **File > Close Window** to exit this window.

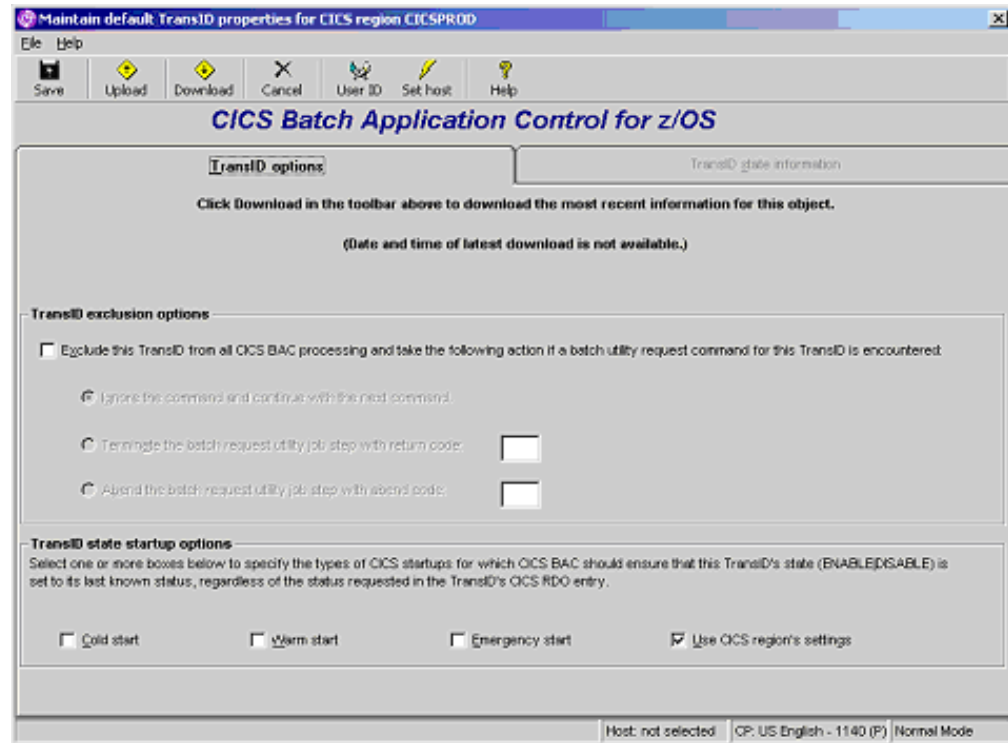
Modifying defaults for transID objects within a region

When you create a new CICS region folder, CICS BAC creates subfolders for each object type under the CICS region folder. Inside the TransIDs subfolder, it automatically places a \$Default properties object that is a copy of the default transaction ID object in the Default Properties folder at the time the CICS region folder was created.



The \$Default object conveys its own default settings to any new transaction ID objects that you create. It is also used by CICS BAC on the host mainframe computer to set properties whenever it determines it must create a new program object record for an undefined program it encounters that must have an object created for it in the CICS BAC region control file. To change these settings:

1. Click on the applicable **TransIDs** folder in the tree pane.
2. Double-click **\$Default** in the view pane.

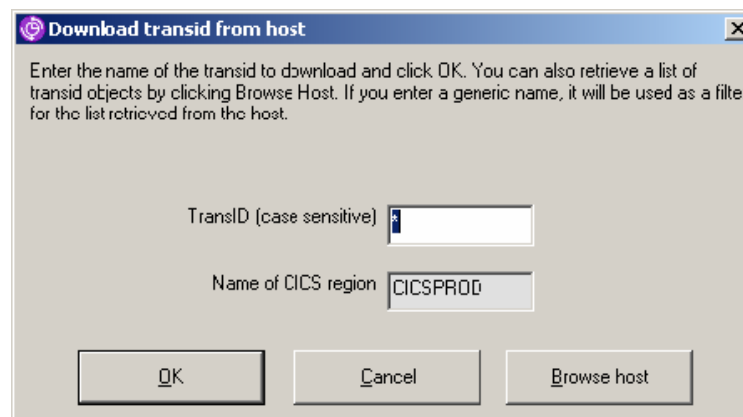


3. Set the default options as desired. For more details on these settings, see “TransID object details” on page 71.
4. Click the **Save** icon or select **File > Save** to save your changes.
5. Select **File > Close Window** to exit this window

Downloading transid objects for a region

Before creating new transaction ID objects, you may want to download existing transaction ID objects for the current region, to get the most recent information from the mainframe host. Use these steps:

1. In the CICS BAC main window, select the TransIDs folder in the target CICS region's folder.
2. Click the Download icon on the toolbar or select **File > Download from Host > Transaction ID object**. This opens a special download dialog box.

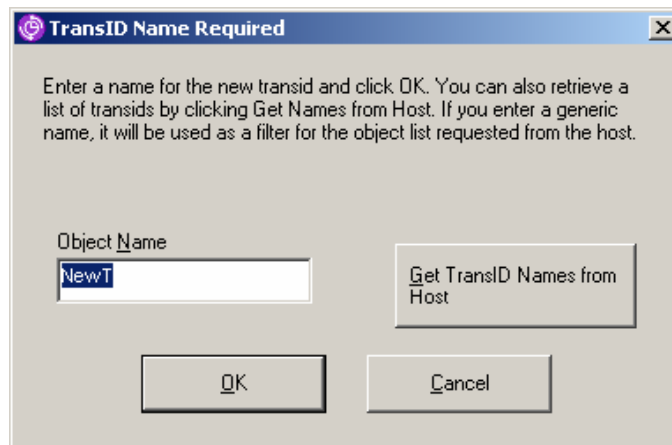


3. Enter the name of the transaction ID to download and click **OK**. You can also retrieve a list of transaction IDs by clicking the **Browse Host** button. If you enter a generic name, it will be used as a filter for the list retrieved from the host.
If you click OK, CICS BAC connects to the mainframe, downloads the objects, and adds the downloaded transaction ID objects to the TransIDs folder. If instead you click the Browse host button, CICS BAC connects to the mainframe and returns a list of transaction object names from the CICS region's control file that match the name provided. You may then select a transaction ID to be downloaded from the control file. If you haven't already specified a host user ID and password, you will be asked to enter your user ID and password to complete the connection.
4. Open the transaction ID objects in the view pane to see the downloaded object's properties.

Creating new transaction ID objects

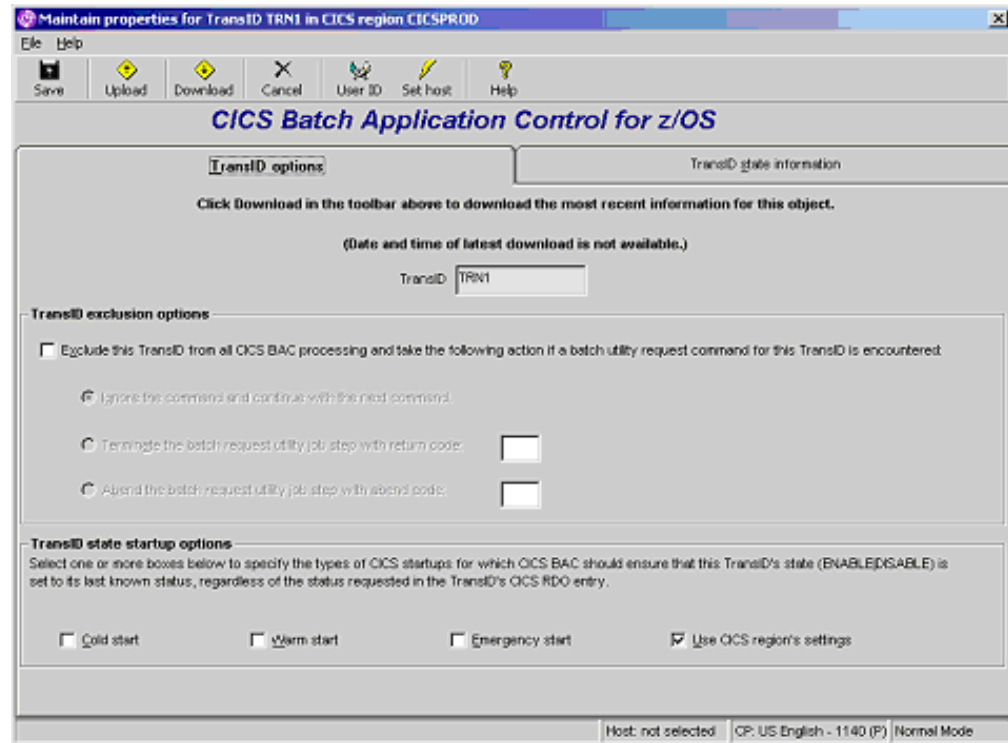
CICS BAC lets you define a set of customized properties for any number of transaction ID objects. These properties govern how transaction ID objects will be processed during CICS BAC startup in the CICS region. When you are ready to start defining properties for a specific transaction ID:

1. Select the appropriate TransIDs folder in the tree pane, then select **File > New > Transaction ID object** on the CICS BAC menu bar or click the New icon on the toolbar and select Transaction ID. This displays a dialog box that you can use to specify the new transaction ID object name.



2. Choose one of the following options:
 - Enter a unique name for the object (such as "TRN1") and click **OK**. You cannot use **NewT** as the name.
 - Click **Browse Host for Existing TransIDs** and use the resulting dialog box to return a list of transaction IDs either from the CICS region control file or the CICS region's definitions. You may then select a transaction ID from the list to continue defining a transaction ID object.

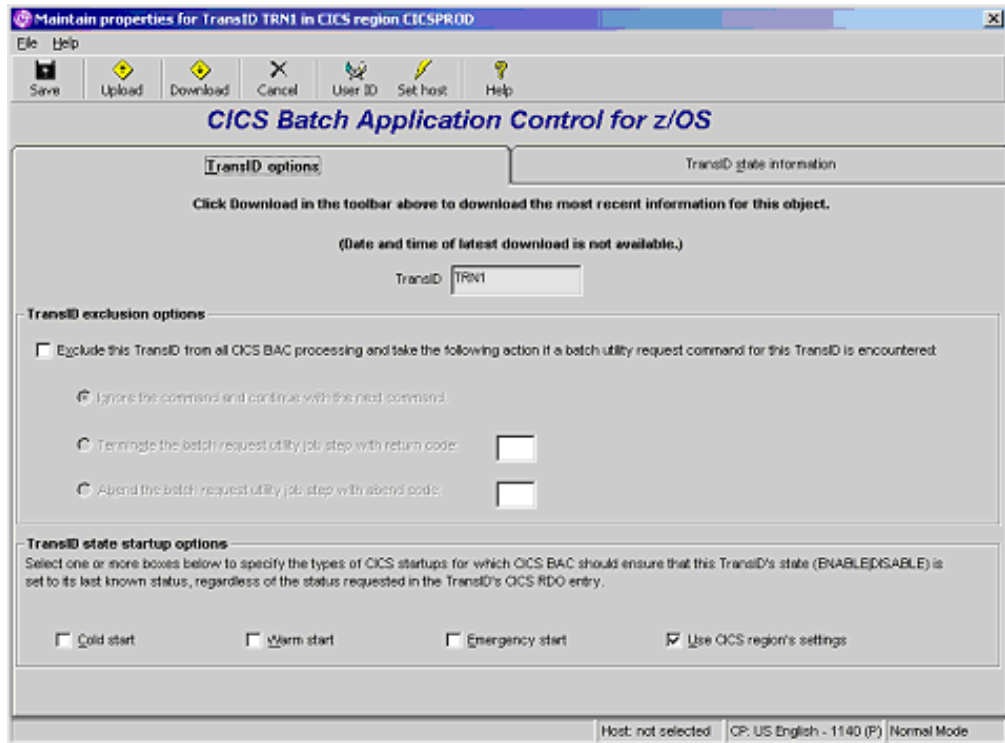
This opens the TransID Properties window for your new transaction ID object.



3. Define the appropriate settings on the TransID options tab. For details, see “TransID object details.” The TransID state information tab provides information about the last time the transaction ID was processed by CICS BAC.
4. To save your changes, select **File > Save** or click the **Save** icon. To cancel any changes since the window was opened or since the last save, click the **Cancel** icon.
5. When you are finished customizing the object properties for this transaction ID object, select **File > Close Window** to exit.

TransID object details

The following settings can be viewed and changed in the TransID Properties window. Before viewing these properties for a transaction ID that is already defined in the CICS region's control file, you should download the latest information using the **Download** icon or by selecting **File > Download** this object from host. Any changes to these properties will not take effect until they are uploaded.



TransID exclusion options

Use this option to specify that CICS BAC should exclude this transaction ID from all processing, including batch request utility processing and CICS state monitoring. If this option is selected, you must also specify the action that CICS BAC should take if it encounters a batch request utility command for this transaction ID. If you select this checkbox, you must also choose one of the following three options:

- **Ignore and continue processing.** CICS BAC will ignore the command as if it was not encountered and continue processing with the next command.
- **Terminate with return code.** CICS BAC will not process any additional commands in the job step, and the batch request utility job step will be terminated with the return code specified.
- **Abend with abend code.** CICS BAC will not process any additional commands in the job step, and the batch request utility job step will be abended with the abend code specified.

Transaction ID state startup options

The following settings specify appropriate behavior for CICS BAC during CICS region initialization and show the latest information known about the transaction ID. Specify the types of CICS startups during which CICS BAC should restore the state of this transaction ID to its last requested state. If any startup type is checked, CICS BAC will reset this transaction ID to its last requested state near the end of CICS region initialization:

- **Cold start.** CICS BAC will restore the transaction ID's status to its last requested state during a region cold start.
- **Warm start.** CICS BAC will restore the transaction ID's status to its last requested state during a region warm start.

- **Emergency start.** CICS BAC will restore the transaction ID's status to its last requested state during a CICS region emergency restart.
- **Use CICS region's defaults.** CICS BAC will use the state startup options as set in the CICS region's region properties record to determine whether or not to set a transaction ID's state to its last requested state during the various types of CICS region initializations.

Transaction ID state information

The transaction ID state information tab is the second tab in the TransID Properties window. It contains read-only information downloaded from the host showing various information and states that were set or in effect the last time CICS BAC processed the transaction ID.

Last processed

This panel contains information about the last time the transaction ID was processed by CICS BAC including date, time, job number/name, and more. Make sure you have downloaded the latest information from the host.

Last state

This panel contains the last requested status of the transaction ID as known to CICS BAC. Make sure you have downloaded the latest information from the host.

Chapter 8. Program objects

Understanding program objects

A program object is a default or customized set of properties that represent a program defined in a CICS region that will be processed by CICS BAC. You can define a set of properties for any number of programs in the CICS region. These include:

- Program exclusion options
- Program state startup options

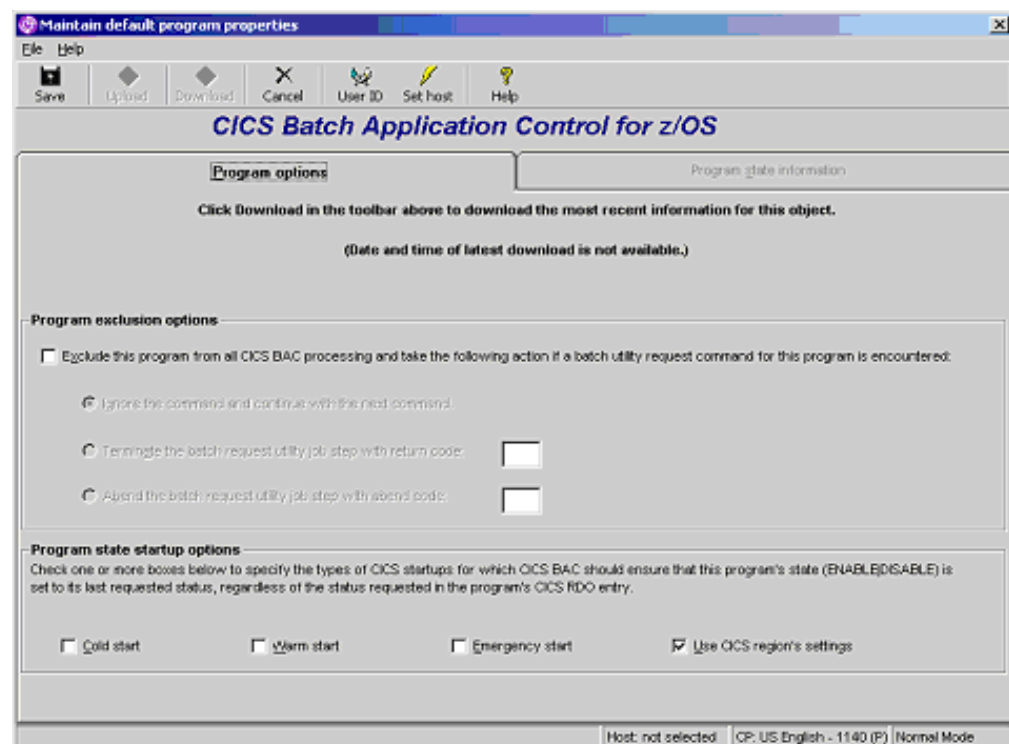
In addition, the following information is provided for the program object:

- Last processed date, time, and other information
- Last state (enabled/disabled)

Setting defaults for all program objects

Before you start defining programs objects, you may want to set the defaults for all program objects. These defaults are used to create the \$Default definition that is automatically placed in the Programs folder each time you define a new CICS region, which is subsequently used to set the initial values for new program objects created in the CICS region's program subfolder. To set up the baseline set of defaults for all program objects:

1. Click the **Default Properties** folder in the tree pane.
2. Double-click **Program** in the view pane. This opens the Default Program Properties window.



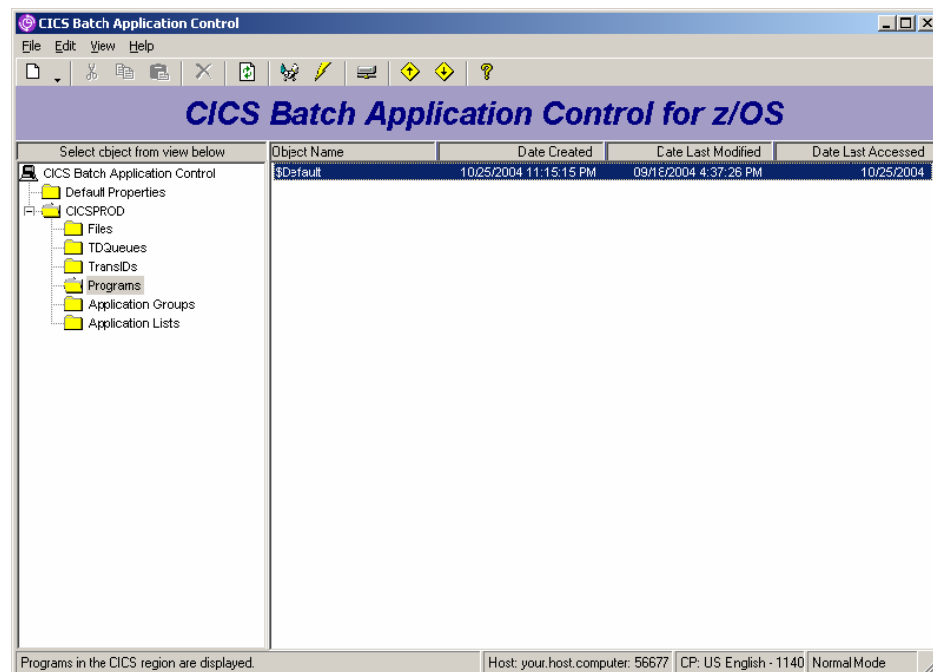
3. Set the default options as desired. For more details on these settings, see “Program object details” on page 79.

Note: The second tab is not available since there is no available information on this tab that would make sense in a default context.

4. Click the Save icon or select **File > Save** to save your changes.
5. Select **File > Close Window** to exit this window.

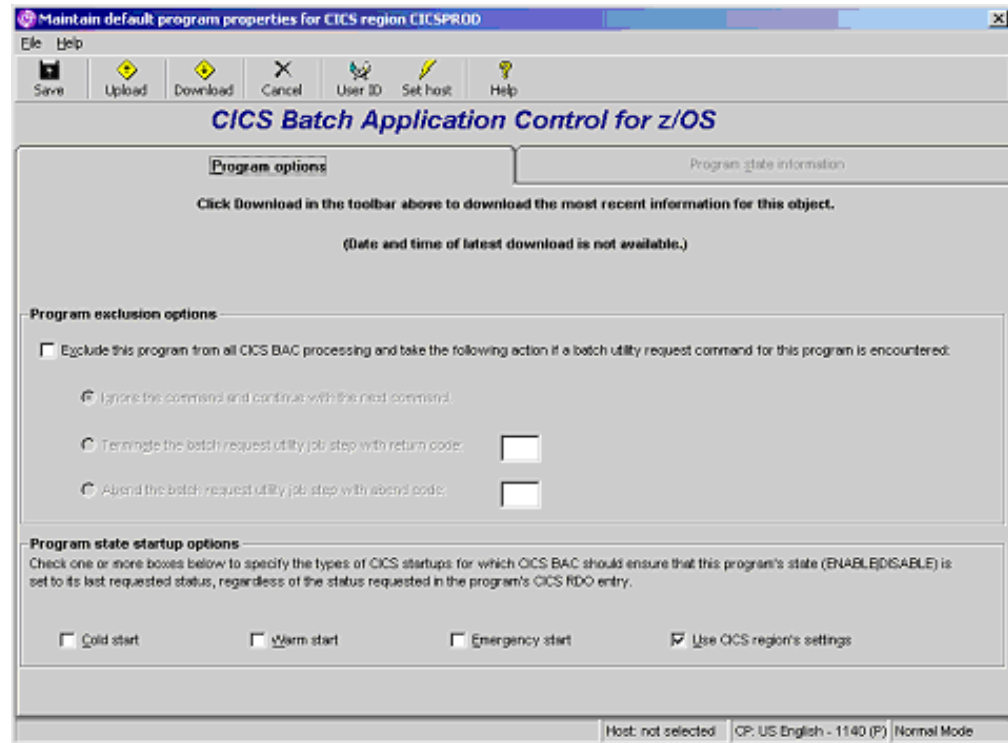
Modifying defaults for program objects within a region

When you create a new CICS region folder, CICS BAC creates subfolders for each object type under the CICS region folder. Inside the Programs subfolder, it automatically places a \$Default properties object that is a copy of the default program object in the Default Properties folder at the time the CICS region folder was created.



The \$Default object conveys its own default settings to any new program objects that you create. It is also used by CICS BAC on the host mainframe computer to set properties whenever it determines it must create a new program object record for an undefined program it encounters that must have an object created for it in the CICS BAC region control file. To change these settings:

1. Click on the applicable **Programs** folder in the tree pane.
2. Double-click **\$Default** in the view pane.



3. Set the default options as desired. For more details on these settings, see “Program object details” on page 79.

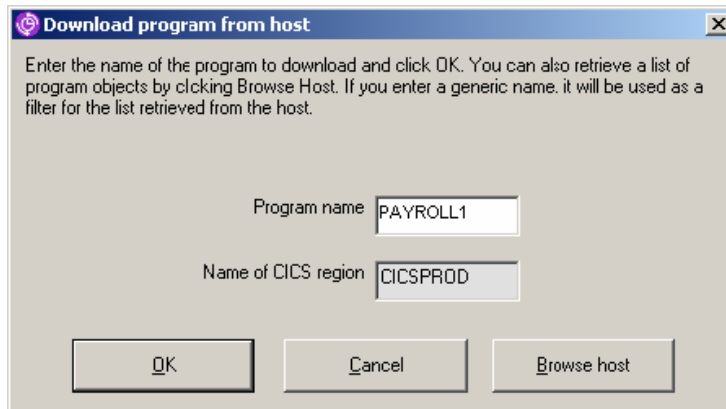
Note: The second tab is not available since there is no available information on this tab that would make sense in a default context.

4. Click the **Save** icon or select **File > Save** to save your changes.
5. Select **File > Close Window** to exit this window.

Downloading program objects for a region

Before creating new program objects, you may want to download existing program objects for the current region, to get the most recent information from the mainframe host. Use these steps:

1. In the CICS BAC main window, select the Programs folder in the target CICS region's folder.
2. Click the **Download** icon on the toolbar or select **File > Download from Host > Program object**. This opens a special download dialog box.

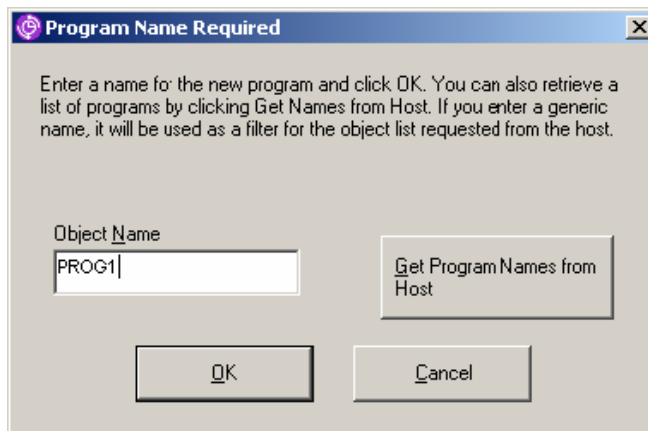


3. Enter the name of the program to download and click **OK**. You can also retrieve a list of program names by clicking the **Browse Host** button. If you enter a generic name, it will be used as a filter for the list retrieved from the host.
If you click **OK**, CICS BAC connects to the mainframe, downloads the objects, and adds them to the Programs folder. If instead you click the Browse host button, CICS BAC connects to the mainframe and returns a list of program objects in the CICS region's control file that match the name provided. You may then select a program to be downloaded from the control file. If you haven't already specified a host user ID and password, you will be asked to enter your user ID and password to complete the connection.
4. Open the program objects in the view pane to see the downloaded objects' properties.

Creating new program objects

CICS BAC lets you define a set of customized properties for any number of program objects. These properties govern how program objects will be processed by CICS BAC during CICS region initialization. When you are ready to start defining properties for a specific program:

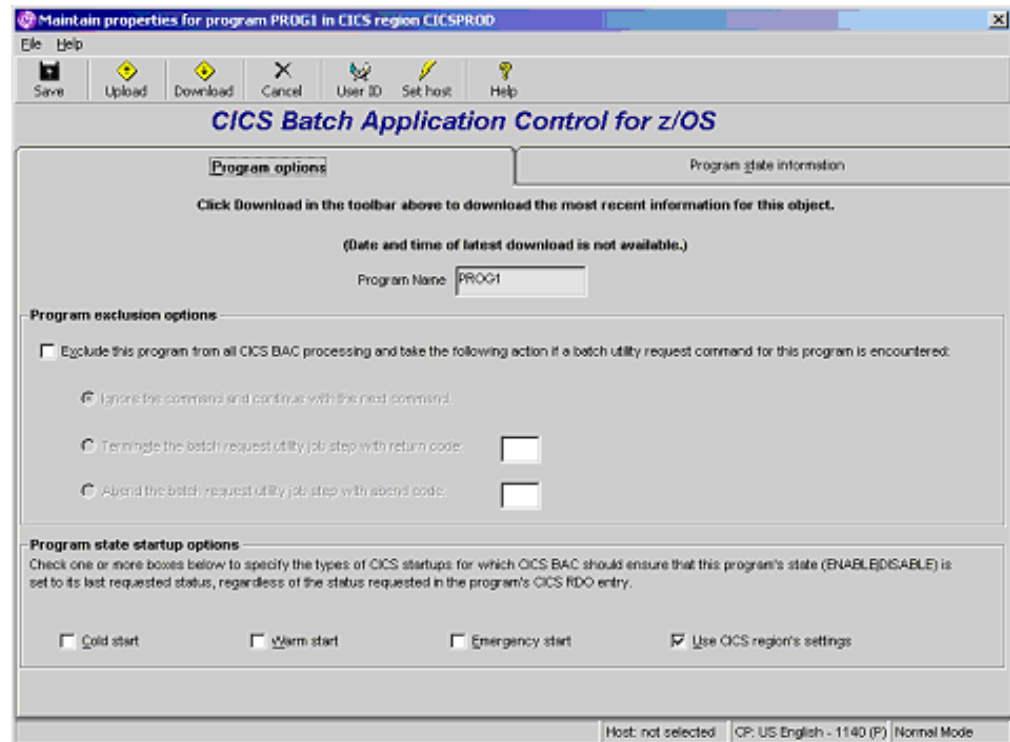
1. Select the appropriate Program folder in the tree pane, then select **File > New > Program object** on the CICS BAC menu bar or click the **New** icon on the toolbar and select **Program**. This displays a dialog box that you can use to specify the new program object name:



2. Choose one of the following options:

- Enter a unique name for the object (such as "PROG1") and click OK. You cannot use **NEWPROG** as the name.
- Click **Browse Host for Existing Programs** and use the resulting dialog box to view and select from a list of programs currently in the CICS region's control file or defined to CICS. You may then select a program from the list to continue defining a program object.

This opens the Program Properties window for your new program object.



3. Define the appropriate settings on the Program options tab. For details, see "Program object details." The Program state information tab provides information about the last time the program was processed by CICS BAC.
4. To save your changes, select **File > Save** or click the **Save** icon. To cancel any changes since the window was opened or since the last save, click the **Cancel** icon.
5. When you are finished customizing the object properties for this program object, select **File > Close Window** to exit.

Program object details

The following settings can be viewed and changed in the Program Properties window.

- Program options
- Program state information

Before viewing these properties, you should download the latest information using the **Download** icon or by selecting **File > Download** this object from host. Any changes to these properties will not take effect until they are uploaded to the mainframe.

Program options

The following settings specify exclusion options and the appropriate behavior for CICS BAC program processing during CICS region initialization for programs that have not been excluded.

Maintain properties for program PROG1 in CICS region CICSPROD

File Help

Save Upload Download Cancel User ID Set host Help

CICS Batch Application Control for z/OS

Program options Program state information

Click Download in the toolbar above to download the most recent information for this object.

(Date and time of latest download is not available.)

Program Name: PROG1

Program exclusion options

☐ Exclude this program from all CICS BAC processing and take the following action if a batch utility request command for this program is encountered:

- ☒ Ignore the command and continue with the next command.
- ☐ Terminate the batch request utility job step with return code:
- ☐ Abend the batch request utility job step with abend code:

Program state startup options

Check one or more boxes below to specify the types of CICS startups for which CICS BAC should ensure that this program's state (ENABLE/DISABLE) is set to its last requested status, regardless of the status requested in the program's CICS RDO entry.

☐ Cold start ☐ Warm start ☐ Emergency start ☒ Use CICS region's settings

Host: not selected CP: US English - 1140 (P) Normal Mode

Program name

This is the name of the program for which properties are being specified. These settings override the region settings for this program only. This is a display-only field.

Program exclusion options

Use this option to specify that CICS BAC should exclude this program from all processing, including batch request utility processing and CICS state monitoring. If this option is selected, you must also specify the action that CICS BAC should take if it encounters a batch request utility command for this program. If you select this checkbox, you must also choose one of the following three options:

- **Ignore and continue processing.** CICS BAC will ignore the command as if it was not encountered and continue processing with the next command.
- **Terminate with return code.** CICS BAC will not process any additional commands in the job step, and the batch request utility job step will be terminated with the return code specified.
- **Abend with abend code.** CICS BAC will not process any additional commands in the job step, and the batch request utility job step will be abended with the abend code specified.

Program state startup options

The following settings specify appropriate behavior for CICS BAC during CICS region initialization and show the latest information and last requested status of the

program. Specify the types of CICS startups during which CICS BAC should restore this program to its last requested state. If any startup type is checked, CICS BAC will reset this program to its last requested state near the end of region initialization:

- **Cold start.** CICS BAC will restore the program's status to its last requested state during a region cold start.
- **Warm start.** CICS BAC will restore the program's status to its last requested state during a region warm start.
- **Emergency start.** CICS BAC will restore the program's status to its last requested state during a region emergency restart.
- **Use CICS region's defaults.** CICS BAC will use the state startup options as set in the CICS region's region properties record to determine whether or not to set a program's state to its last requested state during the various types of CICS region initialization.

Program state information

The program state information tab is the second tab available in the Program Properties window. It contains read-only information downloaded from the host showing various information and states that were set or in effect the last time CICS BAC processed the program.

Last processed

This panel contains information about the last time this program was processed by CICS BAC, including date, time, job number/name, and more. Make sure you have downloaded the latest information from the host.

Last state

This panel contains the last requested status of the program as known to CICS BAC. Make sure you have *downloaded the latest information from the host*.

Chapter 9. Host operations

Working with hosts

Most of the major features in CICS BAC require a secure and robust host server connection. Such connections are provided over standard TCP/IP networks within your company. This section explains how to create a host list and establish a host connection, including:

- Setting the host connection
- Specifying user ID and password
- Uploading to the host
- Downloading from the host

Creating a host list and setting the host connection

The Set Host Connection panel appears when you select the Set Host Connection tool in the CICS BAC main window, or when you select **File > Set Host Connection**. This panel lets you set up a list of available host connections at certain network TCP/IP addresses and ports. You can then select from this list whenever you need to connect to a host computer on the network.

For example, your test and a production hosts may have different IP addresses. If so, you can identify them both in this panel and then select the one you need for any given purpose.

- To build the host list, enter each **Host Name** or **IP Address**, **Host Port number**, **Host Code Page** (specifying the region or language to be used for translating uploaded data), and any desired Comment or description, then click Add to List.
- To delete a host from the list, select it then click the **Delete Selected Host** button.
- Once you define a host and specify the user ID and password, you are automatically connected to it when you select an action requiring connectivity, such as uploading or downloading object properties or an application group. When the request is complete, the connection is terminated.

Setting up the host user ID and password

Before you can connect to a host mainframe computer from the workstation, you must specify an authorized user ID and password that is approved for mainframe access.

If your upload/download preferences are set correctly, CICS BAC lets you enter the user ID and password once and have it automatically applied each time you connect. To specify a user ID and password for mainframe connections:

1. Select **File > Set Host User ID and Password**. This opens a dialog box that you can use to enter the user ID and password.
2. Enter your authorized **User ID** and **Password**.
3. Click **OK** when finished to save your entries and close the dialog box. Or click **Cancel** to close the dialog box without saving your entries.

Downloading region properties from the host

You can download region properties from the host whether you are currently using the main window, or in the Region Properties window:

Downloading region properties (main window)

1. In the CICS BAC main window, create a region folder for the region you want to download, or select the folder in the tree pane, if it already exists.
2. Click on the Region Properties object in the view pane.
3. Click the **Download** icon on the toolbar or select **File > Download from Host > CICS Region properties object**.

CICS BAC connects to the mainframe, downloads the properties, and updates the Region Properties object. If you haven't already set up the host user ID and password, you will be asked to enter your user ID and password to complete the operation.

4. Double click the Region Properties object in the view pane to see the downloaded properties.

Downloading region properties (Region Properties window)

1. In the CICS BAC Region Properties window, click the **Download** tool or select **File > Download Properties from Host**.

CICS BAC connects to the mainframe, downloads the properties, and updates the Region Properties window. If you haven't already set up the host user ID and password, you will be asked to enter your user ID and password to complete the operation.

2. Review the updated Region Properties in the Region Properties window and modify them as necessary.
3. Click the **Save** icon or select **File > Save** to save the updated properties.

Downloading object properties from the host

You can download the properties for an existing object type using either of the following methods, depending on whether you want to upload all object properties for a region, or upload a specific object's properties:

Downloading all object properties of a certain type

1. In the CICS BAC main window, create a region folder for the region you want to download, or select the folder in the tree pane, if it already exists.
2. Under the selected region, select the folder for the object type that you want to download (e.g., Files folder).
3. Click the **Download** icon on the toolbar or select **File > Download from Host > objecttype**. This opens a special download dialog box.
4. Enter the name of the file to download and click OK. You can also retrieve a list of objects by clicking the Browse Host button. If you enter a generic name, it will be used as a filter for the list retrieved from the host.

Once you click OK or the Browse Host button, CICS BAC connects to the mainframe, downloads the properties, and updates the object folder. If you haven't already specified a host user ID and password, you will be asked to enter your user ID and password to complete the connection.

5. Double click the properties object in the view pane to see the downloaded properties.

Downloading properties for a specific object

1. In the CICS BAC main window, select a region folder in the tree pane and then select the folder for the object type that you want to download (e.g., Files folder).
2. Double-click the desired object to open the object properties window.
3. Click the **Download** icon on the toolbar or select **File > Download** this object from host.
CICS BAC connects to the mainframe, downloads the properties, and updates the window. If you haven't already set up the host user ID and password, you will be asked to enter your user ID and password to complete the operation.
4. Review the download properties in the window and modify them as necessary.
5. Click the **Save** icon or select **File > Save** to save the updated properties.

Uploading region properties to the host

Once you change the properties for a particular CICS region, you should upload the new properties to the CICS BAC application on the mainframe host. Follow these steps

1. If you are not currently in the Region Properties window, select the desired region folder in the CICS BAC main window and then double-click the Region Properties object in the view pane.
2. Click the **Upload** icon on the toolbar or select **File > Upload Properties to Host**.

This opens a dialog box that lets you view the object and region being uploaded.

3. Click **OK** to start the upload.

CICS BAC connects to the mainframe and uploads the properties. If you haven't already set up the host user ID and password, you will be asked to enter your user ID and password to complete the operation.

Uploading object properties to the host

Once you change the properties for a particular object, you should upload the new properties to the CICS BAC application on the mainframe host. Use one of the following procedures, depending on whether you are in the CICS BAC main window or in a particular object properties window:

Uploading object properties for a region

1. In the CICS BAC main window, select the desired region folder, then select the desired object properties folder in the tree pane.
2. Click the **Upload** icon on the toolbar or select **File > Upload object type** to Host.
3. This opens a dialog box that lets you upload all objects of this type or specify a particular object name for uploading. If you enter a filter (such as FILE*), CICS BAC will upload all files that match the filter.
4. Click **OK** to start the upload.

CICS BAC connects to the mainframe and uploads the properties. If you haven't already set up the host user ID and password, you will be asked to enter your user ID and password to complete the operation.

Uploading properties for a specific object

1. In the CICS BAC main window, select the desired region folder in the tree pane, select the desired object properties folder inside the region folder, then double-click the object to be uploaded. This opens the maintenance window for the specific object.
2. Click the **Upload** icon on the toolbar or select **File > Upload this object to host**.

This opens a dialog box that lets you view the object and region being uploaded.

CICS BAC connects to the mainframe and uploads the properties. If you haven't already set up the host user ID and password, you will be asked to enter your user ID and password to complete the operation.

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