Unicenter® CA-Explore®
Performance Management for CICS

Getting Started Guide
Release 7.0
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Welcome to Unicenter CA-Explore for CICS

Overview

Unicenter® CA-Explore® Performance Management for CICS (Unicenter CA-Explore for CICS) is a performance monitor, a software product that measures how effectively a system is distributing its resources.

You can use the information that Unicenter CA-Explore for CICS provides to ensure that your system and applications are meeting your performance goals, to make strategic decisions, and to estimate the impact of planned changes.
## Syntax Conventions Used in This Guide

The following table shows the syntax conventions used in this guide:

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Indicates</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lowercase and lowercase italicized letters</td>
<td>Variables, or items you are to replace with specific information</td>
<td>residence.library filename1</td>
</tr>
<tr>
<td>All capital letters</td>
<td>Literals, or items you are to enter exactly as shown</td>
<td>FILE (filename1)</td>
</tr>
<tr>
<td>Brackets [ ]</td>
<td>Command and statement operands that are not required, but may be specified (are optional)</td>
<td>[INPUT (filename2)]</td>
</tr>
<tr>
<td>Braces { }</td>
<td>Parameters from which you must choose only one</td>
<td>FROM ( un{HOURS} {DAYS} {WEEKS} {MONTHS}</td>
</tr>
<tr>
<td>Vertical bar (</td>
<td>)</td>
<td>Between commands or options in syntax, indicates that you are to choose one.</td>
</tr>
<tr>
<td>Ellipses (…)</td>
<td>Variables that are part of a series, but are not shown</td>
<td>valid1 … valid6</td>
</tr>
</tbody>
</table>
Other Unicenter CA-Explore for CICS Publications

In addition to this guide, the user documentation for Unicenter CA-Explore for CICS includes the following related publications:

<table>
<thead>
<tr>
<th>Title</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online User Guide</td>
<td>Explains how to use the Unicenter CA-Explore for CICS online monitor.</td>
</tr>
<tr>
<td>History Reporting Guide</td>
<td>Explains how to use the Unicenter CA-Explore for CICS History report writer to produce batch reports.</td>
</tr>
<tr>
<td>Utilities Guide</td>
<td>Explains how to run the Unicenter CA-Explore for CICS utilities. These utilities let you maintain Unicenter CA-Explore for CICS files, and archive performance data to use in reports.</td>
</tr>
<tr>
<td>Message Guide</td>
<td>Contains explanations of, and recommended responses to, all error and informational messages issued by Unicenter CA-Explore for CICS.</td>
</tr>
</tbody>
</table>

Getting Help

For further technical assistance with this product, contact Technical Support at http://supportconnect.ca.com for a complete list of locations and phone numbers. Technical support is available 24 hours a day, 7 days a week.
Computer Associates: The Software That Manages eBusiness

The next generation of eBusiness promises unlimited opportunities by leveraging existing business infrastructures and adopting new technologies. At the same time, extremely complicated management presents challenges. From managing the computing devices, to integrating and managing the applications, data, and business processes within and across organizational boundaries—look to CA for the answers.

CA has the solutions available to help eBusinesses address these important issues. Through industry-leading eBusiness Process Management, eBusiness Information Management, and eBusiness Infrastructure Management offerings, CA delivers the only comprehensive, state-of-the-art solutions, serving all stakeholders in this extended global economy.
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As no two IT infrastructures are identical, it pays to leverage our CA Technology Services (CA Services) certified technologists who understand the nuances of your critical business processes, and can adapt our solutions to that environment. We offer robust legacy-to-web integration tools that include Jasmine®, which integrates eBusiness application data for new levels of analysis and accountability B2B, or across the extended enterprise. CA Services adds a layer of expertise with blueprint studies, professional installations, and knowledge transfer plans covering Jasmine, our Neugents predictive analysis agents, CRM, and a full range of systems management solutions.

When it comes to getting on the information fast track, CA Services can recommend and install a full suite of portal and knowledge management solutions to keep your business moving. And, our associates offer the proprietary knowledge to custom-fit your enterprise for solutions, ranging from life cycle management, data warehousing, and next-level business intelligence. Our experts will leave you with the technology and knowledge tools to fully collect, exploit, and leverage your data resources and applications.
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CA Global Education Services™ (CA Education) offerings include instructor-led and computer-based training, product certification programs, third-party education programs, distance learning and software simulation. These services help to expand the knowledge base so companies are better able to use CA products more efficiently, contributing to their greater success. CA Education has been developed to assist today’s technologists in everything from understanding product capabilities, to implementation and quality performance. Because the vast community of education seekers is varied, so too are the CA methods of instruction. CA Education is committed to provide a variety of alternatives to traditional instructor-led training, including synchronous and asynchronous distance learning, as well as Unicenter® simulation.

For training that needs to be extended to a wider audience—for a fraction of the cost and to eliminate the logistical hassle of sending everybody away to a class—CA Education offers excellent distance learning options.
Overview

This chapter describes the steps you must complete before installing Unicenter CA-Explore for CICS.

Pre-installation Checklist

You can use the following checklist to record the completion of each task during installation:

<table>
<thead>
<tr>
<th>Pre-installation Steps</th>
<th>Completed (√)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Install CA-Common Infrastructure Services (CA-CIS for VSE). If you have installed a prior version of Unicenter CA-Explore for CICS, you can use your current LMP licensing key.</td>
<td></td>
</tr>
<tr>
<td>2. Determine whether your site meets the system and storage requirements for installing and running Unicenter CA-Explore for CICS. Unless otherwise indicated, all specifications for storage requirements are for 31-bit storage above the 16MB line.</td>
<td></td>
</tr>
<tr>
<td>3. Restore the installation tape using the IBM Maintain System History Program (MSHP).</td>
<td></td>
</tr>
</tbody>
</table>
Step 1: Install CA-CIS for VSE

CA-CIS for VSE consists of components that are common to all CA VSE products. If you have already installed the latest CA-CIS for VSE tape as part of another CA product installation, you can bypass this step. Otherwise, see the CA-CIS for VSE Getting Started guide for instructions on installing CA-CIS for VSE.

Unicenter CA-Explore for CICS requires CA-CIS for VSE Version 1.4 at service pack SP08 or later.

Unicenter CA-Explore for CICS requires that ENF be active for the product to work. The Unicenter CA-Explore for CICS library must be in the LIBDEF search chain during execution of CASAUTIL when starting the System Adapter and ENF components of CA-CIS for VSE.

Obtaining Your LMP Key

You must have an LMP licensing key for each CA solution you want to install and use. If you do not have the LMP key you need, you can obtain it from your CA account manager. Be sure to name the specific solutions for which you need an LMP key.
Step 2: Satisfy System Requirements

To run Unicenter CA-Explore for CICS, you must have CICS Version 2.3 (CICS 2.3) of CICS VSE, or CICS Transaction Server Version 1.1 (TS 1.1).

Storage Requirements

The dedicated partition in which the Unicenter CA-Explore for CICS online interface and logging programs run is referred to as the Master Logging partition. The Master Logging partition must be a dedicated partition, and can be either static or dynamic. The Master Logging partition requires at least a 2 MB partition.

Each CICS partition that Unicenter CA-Explore for CICS monitors is referred to as a CICS partition. Unicenter CA-Explore for CICS data collection programs run in each CICS partition you want to monitor.

Unicenter CA-Explore for CICS Partition GETVIS Usage

Unicenter CA-Explore for CICS uses the following amounts of CICS partition GETVIS storage:

- 226 KB for program storage, distributed as follows:
  - 36 KB of 24-bit storage
  - 190 KB of 31-bit storage
- 400 KB of 31-bit storage for data collection
- 100 KB of 24-bit storage for control blocks and work areas

If the available amount of 31-bit storage is insufficient, 24-bit storage is used.
Step 2: Satisfy System Requirements

Dynamic Storage Area (DSA) Usage

Unicenter CA-Explore for CICS uses up to 160 KB of DSA storage to load all required Program Processing table (PPT) entries.

Modules in the SVA

Unicenter CA-Explore for CICS no longer requires that you load any modules into the SVA. If you need to reduce the partition GETVIS used in a Unicenter CA-Explore for CICS partition, you can load modules to be shared by partitions into the SVA. The member EXPDP700.A in the product installation library contains a list of SVA-eligible Unicenter CA-Explore for CICS modules.

VSE Library Space

Unicenter CA-Explore for CICS installation requires approximately 10,000-1 KB library blocks.
Step 3: Install Unicenter CA-Explore for CICS Using MSHP

Product Distribution

The machine-readable program materials required for installation are distributed as a single, unlabeled, multifile installation tape in IBM Maintain System History (MSHP) BACKUP format. This may either be a physical tape, or a file distributed using electronic delivery. In either case, the layout of the tape is the same. One tape unit is required to install the product.

Using MSHP

You use MSHP to perform product installation and maintenance. MSHP provides the ability to control these activities in a consistent manner. This format also provides an installation mechanism that system programmers use to maintain the VSE operating system.

You use MSHP to perform product installation and maintenance in the same way that the operating system is installed and maintained. When utilizing MSHP to install a product, an MSHP history file is required to archive product information, such as product identification and library residence. The history file is subsequently used during maintenance applications for product and library identification, and for archival of maintenance information.

The distribution tape includes the library containing the Unicenter CA-Explore for CICS product and a corresponding history file for the product. The history file you use to install Unicenter CA-Explore for CICS should be maintained separately from the operating system history file. We also recommend that the Unicenter CA-Explore for CICS target library be kept separate from the VSE system libraries.
Product Installation Tape

Unicenter CA-Explore for CICS is shipped on a single, unlabeled tape. The tape must be installed using MSHP. One tape unit is required to install the product.

The product distribution tape contains the following files:

<table>
<thead>
<tr>
<th>File #</th>
<th>File Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Tape Mark</td>
</tr>
<tr>
<td>002</td>
<td>History file for product - MSHP backup format</td>
</tr>
<tr>
<td></td>
<td>Tape Mark</td>
</tr>
<tr>
<td>003</td>
<td>VSE library for product - MSHP backup format</td>
</tr>
<tr>
<td>004 - 007</td>
<td>Reserved</td>
</tr>
<tr>
<td>008</td>
<td>MSHP Installation JCL</td>
</tr>
</tbody>
</table>
Overview

CA has developed standardized procedures for installing products utilizing the VSE MSHP utility. These standards for product installation have been developed to allow a common method for installing all CA VSE products.
The installation process utilizes two types of history files and libraries, Production and Installation:

- **Production Libraries and History File**
  The production libraries and history file are created when the first CA product tape is installed utilizing this standard. This library or library set and history file are designed to contain all CA VSE production products. Sufficient space should be allocated to contain all CA VSE products you expect to install, even if only one product is being initially installed. When a product is subsequently installed, or reinstalled, it will not be merged into the Production library set and history file until testing is complete.

- **Installation Libraries and History File**
  The installation libraries and history file are used for subsequent product installation to avoid installation of a new product, or new version of an existing product, into the user’s production environment. These libraries and the history file are used for product installation, verification, and testing. Each product tape that is installed creates a separate sub-library and history file that will be unique to that product tape. Once all testing has been completed, the product is merged into the production libraries and history file.

Creation of these two library sets therefore requires two different installation procedures and sets of JCL, depending upon whether the installation is an initial or subsequent installation. When the first standardized CA VSE product tape is installed, one job creates the Production library, or library set and history file, and installs the product into the same. When a subsequent product tape is installed, the Installation library, or library set and history file are created and used until the product is ready to migrate into the production environment, at which time the Installation library set is deleted.
The standard sequence of product installation is as follows:

1. Retrieve the initial install JCL using the supplied JCL example for either CAINSTB0 or CAINSTC0. These examples are shown in the section Extracting Product Installation JCL in the appendix titled “Accessing and Using Sample JCL” in this guide.

2. Modify the install JCL.
   Modify the variables in this JCL using an editor. A worksheet is provided defining the variables which must be modified (VOLSER, beginning BLOCK or TRACK, and so forth, for a total of 21 possible variables).

3. Install CA-CIS for VSE.
   CA-CIS for VSE must be installed before you can install the individual product. If you already have installed other CA VSE products, then you have probably already done this. If not, review the CA-CIS for VSE Getting Started guide to perform this function.
4. Install the products.
   Submit the modified MSHP job from step 2 to install the product from tape.

5. Tailor and verify the products.
   Proceed with product tailoring and verification.

Standard Installation JCL

Standard Installation JCL has been provided and must be used for installation of all CA VSE products. The following table lists the JCL members, which are described in detail in the appendix titled “Accessing and Using Sample JCL” in this guide.

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Where It Resides</th>
<th>Source Member</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAINSTB0</td>
<td>Appendix “Accessing and Using Sample JCL” of this guide</td>
<td>Not supplied as a source member</td>
<td>Used to retrieve product installation JCL supplied as source members in File 8 of the physical installation tape. The .Z members will be placed into the specified VSE libname.subname.</td>
</tr>
<tr>
<td>CAINSTB2</td>
<td>Source library</td>
<td>CAINSTB2.Z</td>
<td>Used to install Unicenter CA-Explore for CICS into a test library to allow installation, verification, and testing prior to migration from physical tape into the production libraries.</td>
</tr>
<tr>
<td>CAINSTB3</td>
<td>Source library</td>
<td>CAINSTB3.Z</td>
<td>Used to merge products into the Production libraries and history file when installed with either CAINSTB2 or CAINSTC2 (see following).</td>
</tr>
</tbody>
</table>
## Standard Installation Sequence

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Where It Resides</th>
<th>Source Member</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAINSTC0</td>
<td>Appendix “Accessing and Using Sample JCL” of this guide</td>
<td>Not supplied as a source member</td>
<td>Used to retrieve Unicenter CA-Explore for CICS installation JCL supplied as source members in File 8 of the electronic delivery file. The .Z members will be placed into the specified VSE libname.subname.</td>
</tr>
<tr>
<td>CAINSTC2</td>
<td>Source library</td>
<td>CAINSTC2.Z</td>
<td>Used to install Unicenter CA-Explore for CICS into a test library from the electronic delivery file to allow installation, verification, and testing prior to migration into the production libraries.</td>
</tr>
<tr>
<td>CAINSTC4</td>
<td>Source library</td>
<td>CAINSTC4.Z</td>
<td>Used to install Unicenter CA-Explore for CICS from the electronic delivery file directly into an existing library and history file.</td>
</tr>
<tr>
<td>CAINSTQ4</td>
<td>Source library</td>
<td>CAINSTQ4.Z</td>
<td>Used to install Unicenter CA-Explore for CICS from the installation tape file directly into an existing library and history file.</td>
</tr>
</tbody>
</table>
Standard Installation Sequence

Installation Checklist

Use the following checklist to track your progress through the installation process. These steps are described in detail in this chapter.

**Note:** Refer to the step number when contacting Technical Support for assistance during the installation process.

<table>
<thead>
<tr>
<th>Step</th>
<th>Installation Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Review the system requirements.</td>
</tr>
<tr>
<td>2.</td>
<td>Install CA-CIS for VSE.</td>
</tr>
<tr>
<td>3.</td>
<td>Complete the installation worksheet.</td>
</tr>
<tr>
<td>4.</td>
<td>Extract the installation JCL.</td>
</tr>
<tr>
<td>5.</td>
<td>Install the product distribution tape with MSHP.</td>
</tr>
<tr>
<td>6.</td>
<td>Define the Unicenter CA-Explore for CICS files.</td>
</tr>
<tr>
<td>7.</td>
<td>Create the Monitor Initialization Table (MIT).</td>
</tr>
<tr>
<td>8.</td>
<td>Define Unicenter CA-Explore to CICS.</td>
</tr>
<tr>
<td>9.</td>
<td>Update your CICS startup JCL.</td>
</tr>
<tr>
<td>10.</td>
<td>Define Unicenter CA-Explore for CICS to VTAM.</td>
</tr>
<tr>
<td>11.</td>
<td>Activate/deactivate Unicenter CA-Explore for CICS.</td>
</tr>
<tr>
<td>12.</td>
<td>Load sample PLOTLIST members.</td>
</tr>
<tr>
<td>13.</td>
<td>Update IESMSGS file (optional).</td>
</tr>
<tr>
<td>14.</td>
<td>Customize Unicenter CA-Explore for CICS.</td>
</tr>
</tbody>
</table>
Step 1: Review System Requirements

Before attempting to complete any of the following installation steps for Unicenter CA-Explore for CICS, see the sections System Requirements, and Storage Requirements for Unicenter CA-Explore for CICS.

Step 2: Install CA-CIS for VSE

If you have not already installed CA-CIS for VSE as part of the installation of another CA product, you should do so now. For details, see the CA-CIS for VSE Getting Started guide.

Step 3: Complete the Installation Worksheet

Before proceeding with the installation process, answer these questions concerning the environment in which Unicenter CA-Explore for CICS will be installed:

1. Which DASD packs will be used to hold libraries and installation files?
2. Which file IDs will be used for libraries and installation files?
3. What extent information will be used for libraries and installation files?

The worksheet is provided later in this section to help you define these items, and should be completed before continuing the installation procedure. The keywords on the worksheet are the same as the symbolic parameters used in the supplied installation JCL. These keywords will then be used to update the sample installation JCL for proper execution in your environment.
Step 3: Complete the Installation Worksheet

Library Allocation Requirements

The allocations given specify the library block requirements for installing Unicenter CA-Explore for CICS, and include sufficient space to allow for product reinstallation and maintenance. The calculated file sizes are to be used to complete the worksheet. For installation of Unicenter CA-Explore for CICS, the requirements are 10,000-1 KB library blocks.

Note: If additional CA products are being installed, library requirements must be added to the previous amount.

Unicenter CA-Explore for CICS
Product Installation Worksheet

<table>
<thead>
<tr>
<th>Step</th>
<th>Installation Task</th>
<th>Keywords</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Supply the following information used to personalize the CA production history file:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Customer Name</td>
<td>@CUSTNME= ___________________</td>
</tr>
<tr>
<td></td>
<td>Customer Address</td>
<td>@CUSTADD= ___________________</td>
</tr>
<tr>
<td></td>
<td>Customer Phone Number</td>
<td>@CUSTPHN= ___________________</td>
</tr>
<tr>
<td></td>
<td>Programmer Name</td>
<td>@PROGNME= ___________________</td>
</tr>
<tr>
<td>2.</td>
<td>Supply the following information used for the production history file EXTENT:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volume ID of DASD pack</td>
<td>@HISTVOL= ___________________</td>
</tr>
<tr>
<td></td>
<td>Beginning relative track or block</td>
<td>@HISTREL= ___________________</td>
</tr>
<tr>
<td></td>
<td>Number of tracks or blocks</td>
<td>@HISTEXT= ___________________</td>
</tr>
<tr>
<td>3.</td>
<td>Supply the following information used for the installation history file EXTENT:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volume ID of DASD pack</td>
<td>@INSTVOL= ___________________</td>
</tr>
<tr>
<td></td>
<td>Beginning relative track or block</td>
<td>@INSTREL= ___________________</td>
</tr>
<tr>
<td></td>
<td>Number of tracks or blocks</td>
<td>@INSTEXT= ___________________</td>
</tr>
</tbody>
</table>
Step 3: Complete the Installation Worksheet

<table>
<thead>
<tr>
<th>Step</th>
<th>Installation Task</th>
<th>Keywords</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>Supply the tape drive address where the installation tape will be mounted:</td>
<td>@TAPECUU= ____________</td>
</tr>
<tr>
<td></td>
<td>Tape drive address of CUU</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Supply the following information used for the production library EXTENT:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volume ID of DASD pack</td>
<td>@DLIBVOL= ____________</td>
</tr>
<tr>
<td></td>
<td>Beginning relative track or block</td>
<td>@DLIBREL= ____________</td>
</tr>
<tr>
<td></td>
<td>Number of tracks or blocks</td>
<td>@DLIBEXT= ____________</td>
</tr>
<tr>
<td>6.</td>
<td>Supply the following information used for the installation library EXTENT:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volume ID of DASD pack</td>
<td>@ILIBVOL= ____________</td>
</tr>
<tr>
<td></td>
<td>Beginning relative track or block</td>
<td>@ILIBREL= ____________</td>
</tr>
<tr>
<td></td>
<td>Number of tracks or blocks</td>
<td>@ILIBEXT= ____________</td>
</tr>
<tr>
<td>7.</td>
<td>Supply the product name and product code for the product you are installing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Name: Unicenter CA-Explore for VSE</td>
<td>@PRODUCT= ____________</td>
</tr>
<tr>
<td></td>
<td>Product Code: SP470</td>
<td>@PRODCDE= ____________</td>
</tr>
<tr>
<td>8.</td>
<td>Supply the following only if you are installing from the electronic delivery file using IBM VSE Virtual Tape:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IP address of the machine that currently holds the .AWS file</td>
<td>@IPADDR= ____________</td>
</tr>
<tr>
<td></td>
<td>The fully qualified location and name of the Unicenter CA-Explore for CICS .AWS file</td>
<td>@AWSFILE= ____________</td>
</tr>
</tbody>
</table>
Step 4: Extract the Installation JCL

For details on extracting installation JCL from File 8, see the following sections in the appendix titled “Accessing and Using Sample JCL” in this guide.

Step 5: Install the Product Distribution Tape with MSHP

Step required: Unicenter CA-Explore for CICS installation

Extract the appropriate installation JCL member from the product library specified during the execution of either CAINSTB0 or CAINSTC0. The JCL should be edited according to the worksheet items and the information located in the appendix titled “Accessing and Using Sample JCL” in this guide. Use the following guidelines when editing the execution JCL:

1. Be certain to limit the scope of editor changes to columns 1 through 71 of the sample JCL.
2. Remove the CATALS or CATALOG and BKEND statements that may appear in the beginning and end of each JCL sample.
3. In each JCL sample, make the following changes:
   - Change @* to /*
   - Change @& to /&
   - Change ./ to //
   - Change .* to /*
   - Change .& to /&

After you complete all modifications, mount the installation tape (or electronic delivery file) on the specified tape drive, and submit the JCL for execution.
Step 6: Define the Unicenter CA-Explore for CICS Files

Unicenter CA-Explore for CICS requires three VSAM data sets. The archive data set EXPCARC, and the flashback data set EXPCFBK contain Unicenter CA-Explore for CICS records data, which can also be used as input to the report writer. The online work file EXPCFIL contains configuration information.

The sections that follow give further details about each of these files, including their default sizes and space requirements.

EXPCARC Archive File

The archive file is used to log transaction data. New data is appended to the end of this file. When the archive file fills up, you can back it up to tape or disk for use in long-term performance analysis. Either the active archive file or a backup can be used as input to the Unicenter CA-Explore for CICS report writer to create batch reports.

Default Size and Space Requirements

The default size of the archive file is 25 cylinders, but we recommend that you allocate at least 100 cylinders.

You should back up the archive file to tape daily or weekly using the BACKUP utility option of the EXPUTIL utility, as explained in the Unicenter CA-Explore for CICS Utilities Guide. The amount of DASD space required by the archive file depends upon the activity of your CICS system in any given period between backups.
Step 6: Define the Unicenter CA-Explore for CICS Files

**Recommended Location**

The archive file should be placed on a low-usage DASD volume so that I/O to this file is quick and efficient. Appropriate file location is especially important when Unicenter CA-Explore for CICS is used to monitor highly active CICS systems.

**EXPCFBK Flashback File**

The flashback file is a wraparound file used for online reports and flashback analysis. It can also be used as input to the Unicenter CA-Explore for CICS history report writer to create batch reports.

**Default Size and Space Requirements**

The default size of the flashback file data set is 25 cylinders, but we recommend that you allocate at least 100 cylinders.

The amount of DASD space required by the flashback file depends upon the amount of data you choose to have available online. Unicenter CA-Explore for CICS compresses transaction data into 4096-byte records prior to writing the data to disk.

**Recommended Location**

The flashback file should be placed on a low-usage DASD volume so that I/O to the file is quick and efficient. Appropriate file location is especially important when Unicenter CA-Explore for CICS is used to monitor highly active CICS systems.
EXPCFIL Online Work File

The online work file is used to store a variety of information, including review data, plot lists, command lists, and replay screens.

Default Size and Space Requirements

The default size of the online work file is one cylinder, with a secondary allocation of one cylinder. The default allocation is normally sufficient.

Maintaining the Unicenter CA-Explore for CICS Files

Use the Unicenter CA-Explore for CICS EXPUTIL utility to maintain the archive, flashback, and online work files. For information about using the EXPUTIL utility, see the Unicenter CA-Explore for CICS Utilities Guide.
Creating the Unicenter CA-Explore for CICS Files

You need to create Unicenter CA-Explore for CICS VSAM files for each Master Logging partition. If you have more than one Master Logging partition, run the JCL that follows for each, specifying a unique value for the NAME parameter on the INSTALL statement for each partition.

The following job stream runs the Unicenter CA-Explore for CICS utility program EXPUTIL to create the three required VSAM files. A copy of this sample job stream is available in the member EXPDINST.Z of the product library.

The INSTALL utility option is issued three times in the job stream: the first occurrence creates the online work file (EXPCFIL), the second creates the archive file (EXPCARC), and the third creates the flashback file (EXPCFBK).

```
// JOB EXPUTIL
// OPTION LOG,PARTDUMP
// DLBL IJSYSUC,'your.vsam.catalog',VSAM
// DLBL EXPCFIL,'expc.expcfil',VSAM
// DLBL EXPCARC,'expc.expcarc',VSAM
// DLBL EXPCFBK,'expc.expcfbk',VSAM
// LIBDEF *.SEARCH=product.library
// EXEC EXPUTIL,SIZE=EXPUTIL
INSTALL -
    FILE(EXPCFIL) -
    NAME(expc.expcfil) -
    INPUT(NONE) -
    CYL(pri sec) -
    VOL(volume) -
INSTALL -
    FILE(EXPCARC) -
    NAME(expc.expcarc) -
    INPUT(NONE) -
    CYL(pri sec) -
    VOL(volume)
INSTALL -
    FILE(EXPCFBK) -
    NAME(expc.expcfbk) -
    INPUT(NONE) -
    CYL(pri sec) -
    VOL(volume)
/*
*/
```
### Modifying the Sample Job Stream

Replace the italicized items in the preceding job stream as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>How to Modify</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>your. vsam. catalog</code></td>
<td>Replace with the name of your VSAM catalog.</td>
</tr>
<tr>
<td><code>expc.expcfil</code></td>
<td>Replace with the name of your online work file.</td>
</tr>
<tr>
<td><code>expc.expcarc</code></td>
<td>Replace with the name of your archive file.</td>
</tr>
<tr>
<td><code>expc.expcfbk</code></td>
<td>Replace with the name of your flashback file.</td>
</tr>
<tr>
<td><code>product.library</code></td>
<td>Replace with the name of the Unicenter CA-Explore for CICS product library.sublibrary.</td>
</tr>
<tr>
<td><code>CYL(pri sec)</code></td>
<td>Replace <code>pri</code> and <code>sec</code> with the primary and secondary cylinder allocations for the file being created. Do not specify a secondary allocation for the flashback file. If you use fixed-block architecture (FBA) disk devices, replace the keyword CYL with BLK, and specify the number of blocks. To calculate the number of blocks, multiply the number of cylinders as follows:</td>
</tr>
<tr>
<td></td>
<td>3370 device cylinders x 744</td>
</tr>
<tr>
<td></td>
<td>9336 device cylinders x 960</td>
</tr>
<tr>
<td></td>
<td>9335 device cylinders x 426</td>
</tr>
<tr>
<td></td>
<td>9332 device cylinders x 292</td>
</tr>
<tr>
<td><code>USCL(pri sec)</code></td>
<td>Replace <code>pri</code> and <code>sec</code> with the primary and secondary VSAM user class assignments. Valid values are 0 through 9. The default for all three data sets is (0 0).</td>
</tr>
<tr>
<td><code>VOL(volume)</code></td>
<td>Specify the ID of the volume on which the file being created will reside.</td>
</tr>
</tbody>
</table>
Step 7: Create the Monitor Initialization Table (MIT)

Step 7: Create the Monitor Initialization Table (MIT)

Note: This step is required for all users.

You use this step to:

- Create an MIT – At initialization, Unicenter CA-Explore for CICS uses the MIT to identify the Master Logging partition and the CICS partitions that are to be monitored.
- Define the Master Logging and CICS partitions.

Creating an MIT

Use the following steps to create an MIT:

1. If you are reinstalling or upgrading Unicenter CA-Explore for CICS, or planning to merge a test library into production, rename your existing $MIT.P member to $MIT.SAVE.

2. When the installation or merge is complete, use LIBR to rename $MIT.SAVE to $MIT.P.

3. If you have customized any of the other Unicenter CA-Explore for CICS configuration members ($CNFIG.P, $THRHSH.P, $ARTM.P, $VSTATUS.P, $XMON.P, $UMBRELA.P, $CMD.P, $MAPS.P, $SCTY.P), repeat the previous steps.

Detailed instructions for customizing configuration members are provided in the chapter “Configuration Options” in the Unicenter CA-Explore for CICS Online User Guide. That chapter furnishes information on setting configuration options, setting and monitoring thresholds, optional security settings, and so forth.
Defining the Master Logging and CICS Partitions

Use the following steps to define the Master Logging and CICS partitions:

Step 7A  Access the MIT in the product library.sublibrary.

Do not change the name of the MIT.

Step 7B  If you are converting from a 6.1 or earlier version of Unicenter CA-Explore for CICS, you must remove the VTAM application ID used to access Unicenter CA-Explore for CICS from VTAM from the MIT.

In Version 6.5 and above of Unicenter CA-Explore for CICS, the application ID is specified using the configuration option VTAM-APPLID, as explained in the Unicenter CA-Explore for CICS Online User Guide.

Step 7C  Using the following syntax, add a line to the MIT that identifies the Master Logging partition:

```
masterjobname id masterjobname
```

Replace `masterjobname` with the Unicenter CA-Explore for CICS Master Logging partition job name as it appears on the VSE job statement.

Replace `id` with a two-character partition ID. You can use any characters as long as the ID is unique.

The sample MIT shown at the end of this step identifies EXPCCICS as the Master Logging partition with an ID of M1.
Step 7D  1. Using the following syntax, add a line to the MIT for each CICS partition that you want Unicenter CA-Explore for CICS to monitor:

\[ \text{cicsjobname id masterjobname} \]

Replace \textit{cicsjobname} with a unique CICS job name.

Replace \textit{id} with a two-character partition ID. This ID is reflected in various reports to identify the partition from which the data is being received. You can use any characters as long as the ID is unique.

\textbf{Note:} This ID does not need to be the ID of the specific partition in which CICS is running. It can be any two characters, as long as they comprise a unique ID. This ID is used by various reports to identify from which partition the data is coming.

2. Specify the Master Logging partition job name for Unicenter CA-Explore for CICS.
Step 7: Create the Monitor Initialization Table (MIT)

The sample MIT that follows identifies three CICS partitions: CICSPROD, CICSTEST, and CICSICCF, with partition IDs of P1, T1, and I2, respectively. EXPCCICS is specified as the Master Logging partition to be associated with each of the three CICS partitions.

```plaintext
Unicenter CA-Explore for CICS 7.0
Monitor Initialization Table
The Monitor Initialization Table member MUST be named $MIT.

Parameter 01 - Jobname  - Jobname associated to a partition
EXPLORE for CICS master
logging partition jobname or
CICS jobname

Parameter 02 - Partitionid  - Unique 2 character partition id

Parameter 03 - Master    - Jobname of Master Logging entry
This entry is responsible for
logging all data collection for this
entry.
If this entry is a Master Logging
entry, enter the same jobname as in
parameter 1.

Parameters 1, 2, and 3 are required.

EXPCCICS   M1    EXPCCICS
CICSPROD   P1    EXPCCICS
CICSTEST   T1    EXPCCICS
CICSICCF   I2    EXPCCICS
```
Step 8: Define Unicenter CA-Explore to CICS 2.3

**Note:** If you are installing Unicenter CA-Explore for CICS 7.0 on CICS 2.3, you must perform this step.

This step explains how to define your CICS programs and transactions that are used by Unicenter CA-Explore for CICS when running under CICS 2.3.

Select one of the following methods to define the appropriate programs and transactions to CICS:

- Resource Definition Online facility (RDO)
- DFHPPT and DFHPCT macros
Defining Resources to RDO Using DFHCSDUP

In this step, you run a job that executes the DFHCSDUP utility to migrate the CICS program and transaction table entries from the supplied members on the product installation tape into your CSD.

If you are upgrading from an earlier version of Unicenter CA-Explore for CICS, ensure that you have removed any resource definitions that you installed previously for Unicenter CA-Explore for CICS.

The following job stream creates an RDO group named EXPLORE, which contains all the program and transaction definitions for Unicenter CA-Explore for CICS. The job stream adds the group EXPLORE to your startup list.

The sample job stream is provided in member EXPCRDO.Z in the product library.sublibrary. Replace explore.sublib with the name of your Unicenter CA-Explore for CICS installation library. Replace your.rdo.file with the name of your CSD file. Replace startup-list with the name of your startup list, as defined by the GRPLIST= parameter in your SIT or CICS startup JCL.

Note: You must not include the reference numbers shown in parentheses on the right side of the sample job stream. If you include these numbers, the job will abend.

```
// LIBDEF PHASE, SEARCH=explore.sublib,PRD1.BASE
// DLBL DFHCSD,'your.rdo.file',VSAM
// EXEC DFHCSDUP,SIZE=256K
  DELETE GROUP(EXPLORE)                                  (1)
  MIGRATE TABLE(DFHPCT7B) TOGROUP(EXPLORE)               (2)
  MIGRATE TABLE(DFHPP7B) TOGROUP(TEMPEXP)               (3)
  COPY GROUP(TEMPEXP) TO(EXPLORE)                        (4)
  DELETE GROUP(TEMPEXP)                                  (5)
  ADD GROUP(EXPLORE) LIST(startup-list)                  (6)
/*
```
In the sample job stream shown, the DFHCSDUP command takes the following actions:

1. The first DELETE operand deletes your existing EXPLORE group from the CSD.
2. The first MIGRATE operand creates a new EXPLORE group containing EXPLORE transaction resource definitions.
3. The second MIGRATE operand creates a temporary group containing EXPLORE program resource definitions.
4. The COPY operand copies EXPLORE program resource definitions to the newly created EXPLORE group from step 2.
5. The second DELETE operand deletes the temporary group.
6. The ADD operand adds the EXPLORE resource group to your startup list. The next time that CICS is started, the new group will automatically be installed.

To manually install the EXPLORE group that was just created, without having to recycle your CICS region, you can enter the following CICS transaction:

CEDA INSTALL GROUP(EXPLORE)
Using Macros to Update PCT and PPT Tables

In this task, you manually update your PCT and PPT tables.

Adding Entries to the PCT

Add the entries shown in the following figures to the CICS DFHPCTxx table, where xx is the phase suffix of the DFHPCT table you use. Sample entries are contained in the member EXPCPCT.A in the product library.sublibrary.

If your terminals do not translate to uppercase by default, include additional entries with the transaction IDs in lowercase letters.

```
DFHPCT  TYPE=ENTRY,TRANSID=EXPC,PROGRAM=ECDIEXPC,TRNPRTY=255
DFHPCT  TYPE=ENTRY,TRANSID=EXPW,PROGRAM=ECDIEXPW,TRNPRTY=255
DFHPCT  TYPE=ENTRY,TRANSID=EXPS,PROGRAM=ECDIEXPS,TRNPRTY=255
DFHPCT  TYPE=ENTRY,TRANSID=EXPT,PROGRAM=ECDIEXPT,TRNPRTY=255
DFHPCT  TYPE=ENTRY,TRANSID=EXPI,PROGRAM=ECDIINIT,TRNPRTY=255
```

The PCT entries identify the following transactions:

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXPC</td>
<td>Use this transaction to access the Unicenter CA-Explore for CICS online interface.</td>
</tr>
<tr>
<td>EXPW</td>
<td>Used internally by Unicenter CA-Explore for CICS to activate a time-out limit.</td>
</tr>
<tr>
<td>EXPS</td>
<td>Use this transaction to start Unicenter CA-Explore for CICS in a CICS partition.</td>
</tr>
<tr>
<td>EXPT</td>
<td>Use this transaction to terminate Unicenter CA-Explore for CICS in a CICS partition.</td>
</tr>
<tr>
<td>EXPI</td>
<td>Used internally to start the Unicenter CA-Explore for CICS initialization program in a CICS partition. This program does not go to end-of-task until CICS does.</td>
</tr>
</tbody>
</table>
Step 8: Define Unicenter CA-Explore to CICS 2.3

Adding Entries to the PPT

Add the entries that follow to the CICS DFHPPTxx table, where xx is the phase suffix of the DFHPPT table you use. All Unicenter CA-Explore for CICS programs are ASSEMBLER programs.

Sample entries are contained in the member EXPCPPT.A in the product library.sublibrary.

DFHPPT TYPE=ENTRY, PROGRAM=ECDIEXPC
DFHPPT TYPE=ENTRY, PROGRAM=ECDIEXP5
DFHPPT TYPE=ENTRY, PROGRAM=ECDIEXP7
DFHPPT TYPE=ENTRY, PROGRAM=ECDIEXPW
DFHPPT TYPE=ENTRY, PROGRAM=ECDIINIT

Defining Unicenter CA-Explore to CICS Transaction Server 1.1

Note: If you are installing Unicenter CA-Explore for CICS 7.0 on CICS Transaction Server 1.1, you must perform this step.

Remove the Unicenter CA-Explore for CICS PCT and PPT entries from your tables prior to converting them to CICS TS 1.1. If you have used RDO to define the transaction, program and transaction class information for Unicenter CA-Explore for CICS, remove all of these entries from the CSD. Unicenter CA-Explore for CICS 7.0 interfaces differently with CICS than previous versions.

Use the CSD utility program to add the new entries for Unicenter CA-Explore for CICS.
Step 8: Define Unicenter CA-Explore to CICS 2.3

Using the CSD Utility Program to Add New Entries for Unicenter CA-Explore for CICS

Modify the sample job stream EXPCTS.Z to define the Unicenter CA-Explore for CICS transaction, programs, and transaction class information making the necessary changes to fit your environment. Submit the job stream to define these entries in the CSD and add the group to your startup list. Replace `your.rdo.file` with the name of your CSD data set. Replace `usercat` with your user catalog name.

Shown next is a sample of the EXPCTS.Z copybook.

```csh
// DLBL DFHCSD,'your.rdo.file',.VSAM.CAT=usercat
// LIBDEF PHASE.SEARCH=(PRD1.BASE)
// EXEC DFHCSDUP,SIZE=400K
DELETE GROUP(EXPCTS)
DEFINE PROGRAM(ECTIEXPC) GROUP(EXPCTS) LANGUAGE(ASSEMBLER)
  EXECKEY(CICS) DESCRIPTION(CA-EXPLORE FOR CICS TERMINAL PROGRAM)
DEFINE PROGRAM(ECTIEXPS) GROUP(EXPCTS) LANGUAGE(ASSEMBLER)
  EXECKEY(CICS) DESCRIPTION(CA-EXPLORE FOR CICS STARTUP PROGRAM)
DEFINE PROGRAM(ECTIEXPT) GROUP(EXPCTS) LANGUAGE(ASSEMBLER)
  EXECKEY(CICS) DESCRIPTION(CA-EXPLORE FOR CICS TERMINATION PROGRAM)
DEFINE PROGRAM(ECTIEXPW) GROUP(EXPCTS) LANGUAGE(ASSEMBLER)
  EXECKEY(CICS) DESCRIPTION(CA-EXPLORE FOR CICS TIMER DELAY PROGRAM)
DEFINE PROGRAM(ECTIINIT) GROUP(EXPCTS) LANGUAGE(ASSEMBLER)
  EXECKEY(CICS) DESCRIPTION(CA-EXPLORE FOR CICS LONG RUNNING PROGRAM)
DEFINE TRANCLASS(EXPCLASS) GROUP(EXPCTS) MAXACTIVE(10)
  DESCRIPTION(TRANSACTION CLASS FOR CA-EXPLORE FOR CICS)
DEFINE TRANSACTION(EXPC) GROUP(EXPCTS) PROGRAM(ECTIEXPC)
  TRANCLASS(EXPCLASS) TASKDATAKEY(CICS) DESCRIPTION(TERMINAL TRANSACTION FOR CA-EXPLORE FOR CICS)
DEFINE TRANSACTION(EXPI) GROUP(EXPCTS) PROGRAM(ECTIINIT)
  TRANSACTION(EXPC) TASKDATAKEY(CICS) DESCRIPTION(LONG RUNNING TASK FOR CA-EXPLORE FOR CICS)
DEFINE TRANSACTION(EXPS) GROUP(EXPCTS) PROGRAM(ECTIEXPS)
  TRANSACTION(EXPC) TASKDATAKEY(CICS) DESCRIPTION(START UP TASK FOR CA-EXPLORE FOR CICS)
DEFINE TRANSACTION(EXPT) GROUP(EXPCTS) PROGRAM(ECTIEXPT)
  TRANSACTION(EXPC) TASKDATAKEY(CICS) DESCRIPTION(SHUTDOWN TASK FOR CA-EXPLORE FOR CICS)
DEFINE TRANSACTION(EXPW) GROUP(EXPCTS) PROGRAM(ECTIEXPW)
  TRANSACTION(EXPC) TASKDATAKEY(CICS) DESCRIPTION(Delay Task for CA-EXPLORE FOR CICS)
/*
*/&
```

Installing Unicenter CA-Explore for CICS 3–25
Step 9: Update Your CICS Startup JCL

**Note:** This step is required for all users.

In this step, you update your CICS JCL. To do so, perform the actions described in this step for each CICS system being monitored.

**Note:** Add the Unicenter CA-Explore for CICS sublibrary to the library search chain before CASAUTIL is executed, as well as in every CICS partition to be monitored, plus every partition running the Unicenter CA-Explore for CICS Master Logging program.

### Adding DLBL Statements for Archive, Flashback, and Online Files

Add the DLBL statements that follow for the Unicenter CA-Explore for CICS archive, flashback, and online work files to your CICS JCL:

- // DLBL EXPCARC, 'expc.expcarc', VSAM,CAT=your.vsam.catalog
- // DLBL EXPCFBK, 'expc.expcfbk', VSAM,CAT=your.vsam.catalog
- // DLBL EXPCFIL, 'expc.expcfil', VSAM,CAT=your.vsam.catalog
The following steps add required statements and an optional parameter.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>9a</td>
<td>Add DLBL statements for Unicenter CA-Explore for CICS VSAM files. Replace <code>expc.expcarc</code> with the name of your archive file, <code>expc.expcfbk</code> with the name of your flashback file, and <code>expc.expcfil</code> with the name of your online work file. Replace <code>your.vsam.catalog</code> with the name of your VSAM catalog. If you have only one Master Logging partition, and the EXPCxxx files are defined in standard labels, you do not need to include them in each CICS startup deck.</td>
</tr>
</tbody>
</table>
| 9b   | Add the product library.sublibrary to the source and phase LIBDEF search chains. Include the product library.sublibrary in the source and phase LIBDEF search chains using a single LIBDEF statement, as follows:  
  
  ```
  // LIBDEF *, SEARCH=(... library.sublibrary, ...)
  ```
Step 10: Define Unicenter CA-Explore for CICS to VTAM

To use Unicenter CA-Explore for CICS from a VTAM terminal, you must first update your VTAM resource definitions. You can also update the VTAM USSTAB.

**Updating Your VTAM Resource Definitions**

Take the following steps to update your VTAM resource definitions to include definitions for Unicenter CA-Explore for CICS:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>10a</td>
<td>Run the following job stream to add the Unicenter CA-Explore for CICS application definitions to your VTAM configuration sublibrary.</td>
</tr>
</tbody>
</table>

```
// JOB LIBR
// EXEC LIBR,SIZE=192K,PARM='MSHP'
CONNECT S=explore.library:vtam.library
COPY EXPCAPPL.B REPLACE=YES
/*
/*
Replace `explore.library` with the name of the Unicenter CA-Explore for CICS product library sublibrary. Replace `vtam.library` with the name of your VTAM configuration sublibrary (usually PRD2.CONFIG).

| 10b  | Add EXPCAPPL to the set of members activated by VTAM during initialization. This list is contained in the member ATCCONnn of the VTAM configuration sublibrary, where `nn` is a number used by your installation and is specified in the member ATCSTRnn with the `CONFIG=nn` parameter. Normally, `nn` is 00. |
```
Step 10: Define Unicenter CA-Explore for CICS to VTAM

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 10c  | If you want to access the Unicenter CA-Explore for CICS interface without cycling the VTAM partition, issue the following command from the console:  

```
V NET,ACT,ID=EXPCAPPL
```

If you do not issue this command, you can access the VTAM interface after the next time VTAM is cycled.

---

**Defining Access to the Online Interface**

The Unicenter CA-Explore for CICS online interface task provides a 3270 interface from CICS, VTAM, dedicated local bisynchronous 3270 terminals, and Unicenter® CA-FAQS® Automated Systems Operation for VSE (Unicenter CA-FAQS).

A single copy of the online interface uses cross-partition (XPCC) communication facilities to send 3270 screens to any of these environments.

**Recommended Access Methods**

We recommend that you access Unicenter CA-Explore for CICS either through VTAM, or through a dedicated terminal. Doing so will let you:

- Use Unicenter CA-Explore for CICS for problem determination if CICS or Unicenter CA-FAQS experiences an unscheduled halt.
- Use the Unicenter CA-Explore for CICS automatic redisplay feature.
Step 10: Define Unicenter CA-Explore for CICS to VTAM

Overhead Considerations

All work necessary to create Unicenter CA-Explore for CICS panels is done within the EXPLORE partition. The CPU, I/O, and storage overhead within CICS and VTAM are used only when displaying the panel. The storage (partition GETVIS) used by Unicenter CA-Explore for CICS is restricted to the dedicated partition.

You can proceed to step 11 if either of the following applies:

- You do not want to access Unicenter CA-Explore for CICS through VTAM, Unicenter CA-FAQS, or a dedicated 3270 terminal.
- You are installing Unicenter CA-Explore for CICS into the same product library as a prior version, and have previously defined Unicenter CA-Explore for CICS to VTAM, Unicenter CA-FAQS, or a dedicated 3270 terminal.

This step explains how to define access to the Unicenter CA-Explore for CICS online interface. The available access methods include:

- Dedicated local bisynchronous 3270 terminals
- Unicenter CA-FAQS, through the Unicenter CA-FAQS EXPC command
- Through VTAM, using the EXPCVTAM native VTAM application
- Through the CA-GSS for VSE terminal driver (DCMTDRIV); CA-GSS for VSE is CA’s global subsystem. See the CA-GSS for VSE Getting Started guide for further information.

Defining a Dedicated Terminal to Unicenter CA-Explore for CICS

To define dedicated terminals to Unicenter CA-Explore for CICS, assign logical unit numbers to the terminals’ CUUs in the EXPLORE partition. SYS000 through SYS004 are the default logical unit numbers.
### Step 10: Define Unicenter CA-Explore for CICS to VTAM

#### Defining a Dedicated Terminal in a VM Environment

Use the following steps to define a dedicated terminal to Unicenter CA-Explore for CICS in a VM environment.

Throughout these steps, replace `cuu` with the channel and unit address of the terminal from which you want to access Unicenter CA-Explore for CICS.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>10d</td>
<td>Do one of the following:</td>
</tr>
<tr>
<td></td>
<td>■ To permanently define a dedicated terminal to Unicenter CA-Explore for CICS, add the following line to the VM directory for the VSE guest machine:</td>
</tr>
<tr>
<td></td>
<td>SPECIAL <code>cuu</code> 3270</td>
</tr>
<tr>
<td></td>
<td>■ To temporarily define a dedicated terminal to Unicenter CA-Explore for CICS, enter the following CP command on your VSE guest machine. The terminal will no longer exist after you log off your VSE guest machine.</td>
</tr>
<tr>
<td></td>
<td>DEFINE GRAF <code>cuu</code> 3270</td>
</tr>
<tr>
<td>10e</td>
<td>Add the device to the VSE guest by adding the following statement to your ASI IPL procedure:</td>
</tr>
<tr>
<td></td>
<td>ADD <code>cuu</code>,3270</td>
</tr>
<tr>
<td>10f</td>
<td>Assign a logical unit number (SYS000-SYS004) to the terminal’s CUU by adding the following statement to your JCL for initializing Unicenter CA-Explore for CICS. Replace <code>nnn</code> with 000 through 004.</td>
</tr>
<tr>
<td></td>
<td>// ASSGN SYSnnn,cuu</td>
</tr>
</tbody>
</table>
Assigning Other Logical Unit Numbers

The Unicenter CA-Explore for CICS BTAMTERM configuration option allows you to define the programmer logical units that Unicenter CA-Explore for CICS is to use for dedicated local bisynchronous 3270 terminals. For more information, see the Unicenter CA-Explore for CICS Online User Guide.

Defining Unicenter CA-Explore for CICS to Unicenter CA-FAQS

Take the following steps if you want to access Unicenter CA-Explore for CICS from Unicenter CA-FAQS:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>10g</td>
<td>Add the Unicenter CA-Explore for CICS product library to the Unicenter CA-FAQS partition’s LIBDEF phase search chain.</td>
</tr>
<tr>
<td>10h</td>
<td>Use the Unicenter CA-FAQS Security Maintenance facility to allow users to access Unicenter CA-Explore for CICS from FAQS.</td>
</tr>
<tr>
<td>10i</td>
<td>If you accessed a prior version of Unicenter CA-Explore for CICS through Unicenter CA-FAQS, you must terminate and reinitialize the Unicenter CA-FAQS online partition before you can access Unicenter CA-Explore for CICS from Unicenter CA-FAQS.</td>
</tr>
</tbody>
</table>

Accessing Unicenter CA-Explore for CICS

The method you use to access Unicenter CA-Explore for CICS is device-specific. The following table shows how to access the product from each device:
**Step 10: Define Unicenter CA-Explore for CICS to VTAM**

<table>
<thead>
<tr>
<th>Device</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>A CICS-controlled terminal</td>
<td>Enter the CICS transaction <strong>EXPC</strong>.</td>
</tr>
<tr>
<td>A VTAM-controlled terminal</td>
<td>Log on to the Unicenter CA-Explore for CICS VTAM application using the application ID specified with the VTAMAPPL configuration option. EXPCVTAM is the default application ID.</td>
</tr>
<tr>
<td>A dedicated local bisynchronous 3270 terminal in native CICS</td>
<td>Turn on a terminal dedicated to Unicenter CA-Explore for CICS. The Main menu appears.</td>
</tr>
<tr>
<td>A dedicated local bisynchronous 3270 terminal in a VM environment</td>
<td>Enter the following command from CP: `DIAL vsemachine cuu` Replace <code>vsemachine</code> with the name of the VSE guest machine on which you defined the terminal. Replace <code>cuu</code> with the terminal’s CUU as you defined it to the VSE guest machine in the procedure in step 10d, Define a Dedicated Terminal to Unicenter CA-Explore for CICS.</td>
</tr>
<tr>
<td>Unicenter CA-FAQS</td>
<td>Enter <strong>EXPC</strong> on the Unicenter CA-FAQS command line.</td>
</tr>
<tr>
<td>The CA-GSS for VSE terminal driver (DCMTDRIV)</td>
<td>Select the Unicenter CA-Explore for CICS option from the GSS Terminal Driver Main menu. See the CA-GSS for VSE product documentation for information about this driver.</td>
</tr>
<tr>
<td>Another CA-Explore for CICS product</td>
<td>Select the CA-Explore for CICS option from the Computer Associates Software Products panel.</td>
</tr>
</tbody>
</table>
Step 11: Activate and Deactivate Unicenter CA-Explore for CICS

You activate Unicenter CA-Explore for CICS using the following methods:

- Start the Master Logging partition.
- Unicenter CA-Explore for CICS can be activated in a CICS partition either automatically (using a PLTPI entry), or manually (using the EXPS transaction).

Initializing Unicenter CA-Explore for CICS

Unicenter CA-Explore for CICS 7.0 requires that ENF be active in the VSE system. When CICS 2.3 or CICS TS 1.1 is started, ENF calls the Unicenter CA-Explore for CICS 7.0 exit program. As a result, you will see the following message:

**EXPC851I CA-EXPLORE FOR CICS 7.0 ENF INITIALIZATION**

Additional messages will appear.
Step 11: Activate and Deactivate Unicenter CA-Explore for CICS

Activating Unicenter CA-Explore for CICS in the Master Logging Partition

You activate Unicenter CA-Explore for CICS in the Master Logging partition, which must be a dedicated partition. The partition can be either static or dynamic. Run the following job stream to activate Unicenter CA-Explore for CICS in the Master Logging partition. The product library member EXPCMAST.Z contains a copy of this job stream.

```
// JOB EXPDCICS
// OPTION PARTDUMP
// DLBL EXPCCAT,'your.vsamcatalog',.VSAM
// DLBL EXPCFIL,'expc.expcfil',.VSAM,CAT=EXPCCAT
// DLBL EXPCARC,'expc.expcarc',.VSAM,CAT=EXPCCAT
// DLBL EXPCFBK,'expc.expcfbk',.VSAM,CAT=EXPCCAT
// ASSGN SYSnnn,UA
// ASSGN SYSnnn,UA
// LIBDEF *,SEARCH=(explore.library,vtam.library)
// EXEC ECTIGEN,SIZE=ECTIGEN
/*
&
```
Replace the italicized items in the previous job stream as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>How to Modify</th>
</tr>
</thead>
<tbody>
<tr>
<td>your.vsam. catalog</td>
<td>Replace with the name of your VSAM catalog.</td>
</tr>
<tr>
<td>expc.expcfil</td>
<td>Replace with the name of your VSAM online work file.</td>
</tr>
<tr>
<td>expc.expcarc</td>
<td>Replace with the name of your VSAM archive file.</td>
</tr>
<tr>
<td>expc.expcfbk</td>
<td>Replace with the name of your VSAM flashback file.</td>
</tr>
<tr>
<td>SYSnnn,UA</td>
<td>Specify the logical unit number and the address of any dedicated 3270 terminals. If you are not using any dedicated 3270 terminals, specify UA, instead of the address, to leave the logical unit unassigned.</td>
</tr>
<tr>
<td>explore.library</td>
<td>Replace with the name of the product library.sublibrary.</td>
</tr>
<tr>
<td>vtam.library</td>
<td>Replace with the name of the VTAM library. This library can be omitted if you are not using the VTAM interface.</td>
</tr>
</tbody>
</table>
Deactivating Unicenter CA-Explore for CICS in the Master Logging Partition

Use one of the two following methods to deactivate the Master Logging partition:

1. On the VSE console, issue the following command and press Enter:
   
```
   MSG pid
   ```

   where `pid` is the partition where the Master Logging job is running.

   When it responds, issue the following command and press Enter.
   
```
   replid SHUTDOWN
   ```

   where `replid` is the reply ID of the partition previously described.

   The Master Logging partition will shut down and go to EOJ.

2. On the VSE console, issue the following command and press Enter.

```
   MSG pid,DATA=SHUTDOWN
   ```

   where `pid` is the partition where the Master Logging job is running. The Master Logging partition will shut down and will go to EOJ.
Manually Deactivating Unicenter CA-Explore for CICS in a CICS Partition

Unicenter CA-Explore for CICS will shut down automatically when CICS terminates.

To manually shut down Unicenter CA-Explore for CICS, at a CICS terminal, issue the following command and press Enter:

```
EXPT
```

Unicenter CA-Explore for CICS will terminate in that CICS partition.

When Unicenter CA-Explore for CICS activates in a CICS TS 1.1 partition, the Unicenter CA-Explore for CICS subtasks have a higher dispatching priority than the CICS TS subtasks. This design allows Unicenter CA-Explore for CICS to function when CICS is in a looping condition. Using Unicenter CA-Explore for CICS, you can monitor the partition and solve the looping problem. If the problem is a very tight instruction loop, Unicenter CA-Explore for CICS may not be able to get control to monitor the CICS partition.

When you use the EXPT transaction to deactivate Unicenter CA-Explore for CICS in a CICS TS partition, the Unicenter CA-Explore for CICS subtasks terminate. If you then use the EXPS transaction to reactivate Unicenter CA-Explore for CICS, these subtasks will have a lower dispatching priority than the CICS subtasks. As a result, the Unicenter CA-Explore for CICS subtasks may not be dispatched in looping situations.
Activating Unicenter CA-Explore for CICS in a CICS Partition

Unicenter CA-Explore for CICS can be started in a CICS partition either automatically using an entry in the PLTPI or manually using the EXPS transaction.

To use the PLTPI to activate Unicenter CA-Explore for CICS automatically, add the appropriate entry (based on your version of CICS) to your PLTPI.

- For TS 1.1, add this entry:
  
  `DEHPLT TYPE=ENTRY,PROGRAM=ECTIEXPS`

- For CICS 2.3, add this entry:
  
  `DFHPLT TYPE=ENTRY,PROGRAM=ECDIEXPS`

**Important!** If your PLTPI contains the entry `DFHPLT TYPE=ENTRY,PROGRAM=DFHDELIM`, make sure you add the Unicenter CA-Explore for CICS entry after the DFHDELIM entry.

To manually activate Unicenter CA-Explore for CICS in a CICS partition, at a CICS terminal issue the following command and press Enter:

`EXPS`

**Note:** Use this method if Unicenter CA-Explore for CICS was not activated using the PLTPI, or if you previously issued the EXPT transaction.

Unicenter CA-Explore for CICS will activate in the CICS partition.
Step 12: Load Sample PLOTLIST Members

Sample PLOTLIST members are loaded from the member SAMPLES.L to the online work file EXPCFIL.

Take the following steps to load sample PLOTLIST members:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>12a</td>
<td>Activate Unicenter CA-Explore for CICS.</td>
</tr>
</tbody>
</table>
| 12b  | Enter the following command from any Unicenter CA-Explore for CICS panel:  
PLOTLIST LOAD SAMPLES |
Step 13: Update IESMSGS File (Optional)

If you want to use the IBM console EXPLAIN function, or the Unicenter CA-FAQS MSG command to look up Unicenter CA-Explore for CICS messages, punch and tailor sample job CAEXPCMS.Z. This executes the EXPCOMSG and ECOMOMSG PROCs to update the IBM VSE/ESA IESMSGS file. Sample job CAEXPCMS.Z follows:

```plaintext
* *********************************************************************
*                              *
* This job loads the messages for Unicenter CA-Explore for CICS     *
* to the IESMSGS file.                                               *
* IBM requires that EXPLAIN OFF be issued before loading message.   *
*                                                                      *
* *********************************************************************
* *********************************************************************
==/> JOB CAEXPCMS LOAD ONLINE MESSAGES FOR CA-EXPLORE FOR CICS
// SETPARM EXPCLB=*EXPCLB Replace with EXPC library name
// SETPARM EXPCSB=*EXPCSB Replace with EXPC sublibrary name
*----------------------------------------------------------------------
// LIBDEF *,SEARCH=(&EXPCLB..&EXPCSB)
*----------------------------------------------------------------------
* Load messages for CA-Explore for CICS to IESMSGS file   |
*----------------------------------------------------------------------
// EXEC PROC=EXPCOMSG
// EXEC PROC=ECOMOMSG
// PAUSE ISSUE EXPLAIN OFF
/*
==/>/
```
Step 14: Customize Unicenter CA-Explore for CICS

Detailed instructions for customizing configuration members are provided in the chapter “Configuration Options” in the Unicenter CA-Explore for CICS Online User Guide. That chapter furnishes information on setting configuration options, setting and monitoring thresholds, optional security settings, and so forth.

Defining Security for Unicenter CA-Explore for CICS

You can provide security for Unicenter CA-Explore for CICS in the following ways:

- Use the internal security table members to control access to Unicenter CA-Explore for CICS during logon and command processing.
- Use eTrust™ CA-Top Secret® Security for VSE (eTrust CA-Top Secret) to define and maintain all security for Unicenter CA-Explore for CICS.

See the chapter titled “Defining Security” in the Unicenter CA-Explore for CICS Online User Guide for internal and external security procedures.
Overview

This chapter contains information about:

- Identifying and resolving problems
- Contacting Computer Associates Technical Support
- Receiving new versions and maintenance upgrades of a product
- Requesting product enhancements
Refer to the flowchart that follows for a summary of the procedures you should follow if you have a problem with a Computer Associates software product. Each of these procedures is detailed on the pages that follow the diagram.
Diagnostic Procedures

1. Software problem occurs.
2. Categorize problem and collect data. See the "Collecting Diagnostic Data" section.
3. Try to identify problem. See the "Interpreting Diagnostic Data" section.
4. See if fix exists. Refer to the "Accessing Online Client Support System" section.

---

- **NO**
  - **FIX FOUND?**
    - **YES**: Apply fix and verify that problem is solved.
    - **NO**: Collect diagnostic data and contact technical support. See the "Calling Computer Associates Technical Support" section.

- **PROBLEM SOLVED?**
  - **YES**: Keep information for future reference.
  - **NO**: Work with Computer Associates Technical Support to solve problem.
Diagnostic Procedures

Collecting Diagnostic Data

The following information is helpful in diagnosing problems that may occur:

- Control statements used to activate your product
- JCL used to install or activate your product
- Relevant system log or console listings
- Relevant system dumps or product dumps
- List of other IBM or third-party products that may be involved
- Manufacturer, model number, and capacity of your hardware
- Numbers and text of IBM or Computer Associates error messages associated with the problem
- Names of panels where the problem occurs
- Listings of all fixes applied to all relevant software, including:
  - The dates fixes were applied
  - Fix numbers
  - Names of components to which fixes were applied
- Short description of problems
Interpreting Diagnostic Data

When you have collected the specified diagnostic data, write down your answers to the following questions:

1. What was the sequence of events prior to the error condition?
2. What circumstances existed when the problem occurred and what action did you take?
3. Has this situation occurred before? What was different then?
4. Did the problem occur after a particular PTF was applied or after a new version of the software was installed?
5. Have you recently installed a new version of the operating system?
6. Has the hardware configuration (tape drives, disk drives, and so forth) changed?

From your response to these questions and the diagnostic data, try to identify the cause and resolve the problem.
Accessing Our Online Client Support System

Supportconnect.ca.com is an online product support and service system available on the Internet from Computer Associates. This support site provides an extensive Knowledge Base that allows you to retrieve many types of product-related information with a single search. The site also provides full product downloads, and an easy-to-use Suggestion Box that you can use to submit enhancement ideas for your licensed products.

The following features are fully integrated in the site:

- Solution downloads
- Technical Support issue management
- License key downloads
- Virus signature downloads
- Product-specific FAQs
- Product documentation downloads
- Newsgroup open forums
- E-News newsletters

The support site offers everything that the previous online sites (eSupport.ca.com, support.ca.com, and webtrack.ca.com) offered, and much more. For the differences between SupportConnect, and Webtrak or eSupport, see the comparison documents that are accessible from the SupportConnect home page.
Requirements for Using SupportConnect

With a current version of a browser and without logging in, you have access to a considerable amount of information on the web site. This includes access to FAQs, published solutions (for channel products only), compatibilities, virus signatures, news, CA user group information, and support services, and to perform general Knowledge Base searches.

For full access to all the services related to your licensed products, including published solutions, license keys, newsgroups, Hyper Subscriptions, product and documentation downloads, issue management, and Suggestion Box, you must log in. These areas require that you are a registered SupportConnect user. You can convert your Webtrack or eSupport login and password to a SupportConnect account; just click on Convert Existing Account when you first access SupportConnect.

If you enrolled at AccountConnect.ca.com, you can log into SupportConnect using your AccountConnect digital certificate rather than entering a login name and password. However, this works only on the PC where the digital certificate resides, and only if you are using Microsoft Internet Explorer 5.5 or later. If you need to access SupportConnect from another PC, or if you are using Netscape Navigator, you must provide a login name and password.

CA-TLC: Total License Care

Many Computer Associates software solutions use license keys or authorization codes to validate your hardware configuration. If you need assistance in obtaining a license key or authorization code, contact the CA Total License Care group through SupportConnect.ca.com.
Calling Computer Associates Technical Support

For further technical assistance with this product, Technical Support is available 24 hours a day, seven days a week. You can obtain a complete list of Computer Associates locations and phone numbers by product at SupportConnect.ca.com.

If you are unable to resolve the problem, please have the following information ready before contacting Technical Support:

- All the diagnostic information described in Collecting Diagnostic Data
- Product name, version number, operating system, and genlevel
- Product name and version number of any other software you suspect is involved
- Version level and PUTLEVEL of the operating system
- Your name, telephone number, and extension (if any)
- Your company name
- Your site ID
- A severity code—A number (from 1 to 4) that you assign to the problem. Use the following to determine the severity of the problem:

<table>
<thead>
<tr>
<th>Severity Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Indicates a <em>system down</em> or <em>inoperative</em> condition.</td>
</tr>
<tr>
<td>2</td>
<td>Indicates a suspected high-impact condition associated with the product.</td>
</tr>
<tr>
<td>3</td>
<td>Indicates a question concerning product performance or an intermittent low-impact condition associated with the product.</td>
</tr>
<tr>
<td>4</td>
<td>Indicates a question concerning general product utilization or implementation.</td>
</tr>
</tbody>
</table>
Product Versions and Maintenance

Customers are requested to operate only under currently supported versions of the product.

Customers with current maintenance agreements also receive ongoing product maintenance. When a new version of the system is available, a notice is sent to all current customers.

Requesting Enhancements

Computer Associates welcomes your suggestions for product enhancements. All suggestions are considered and acknowledged. You can use either of two methods to request enhancements:

- Enter your request through the Suggestion Box at http://supportconnect.ca.com.
- Contact your Account Manager who will initiate the request for you.
Overview

This appendix provides the instructions you need to follow to perform the following tasks:

- Extract the product installation JCL from a physical installation tape or electronic software delivery (ESD) file.
- Install the product into test libraries so that you can verify and test before migrating into the production libraries.
- Migrate the product from the validation/test environment into the production libraries.

Extracting the Product Installation JCL

The job you use to extract the installation JCL depends on the medium on which the product is delivered. It is one of the following:

- CAINSTB0—Use this job if your product is delivered on a physical tape.
- CAINSTC0—Use this job if your product is delivered as an ESD file.

These jobs are described in detail in the sections that follow.
Extracting the Product Installation JCL

Extracting from a Physical Tape: CAINSTB0

Use the following JCL to extract the installation JCL from a physical tape:

`* ***************************************************************
* ***                                                         ***
* ***    Update the following SETPARM statements:             ***
* ***                                                         ***
* ***    @LIBNAME   to the name of the library you are using  ***
* ***    to the name of the sublibrary you are using.         ***
* ***    to the tape drive address where the physical tape is mounted. ***
* ***                                                         ***
* ***************************************************************

// JOB     CAINSTB0          CATAL INSTALL JCL TO LIBRARY
// SETPARM LIBNAME=@LIBNAME  replace with library name
// SETPARM SUBNAME=@SUBNAME  replace with sublibrary name
// SETPARM TAPECUU=@TAPECUU  replace with install tape address
// MTC     FSF,&TAPECUU.7
// ASSGN   SYSIPT,&TAPECUU
// EXEC LIBR,SIZE=256K,PARM='ACCESS SUBLIB=&LIBNAME..&SUBNAME'
// RESET   SYSIPT
/&`
Extracting From an ESD File: CAINSTC0

Use the following JCL to extract the installation JCL from an ESD file:

```
* ***************************************************************
* ***                                                         ***
* ***                                                         ***
* ***    Update the following SETPARM statements:             ***
* ***                                                         ***
* ***    @LIBNAME   to the name of the library you are using  ***
* ***    @SUBNAME   to the name of the sublibrary you are     ***
* ***               using.                                    ***
* ***                                                         ***
* ***    @TAPECUU   to the tape drive address of the IBM VSE   ***
* ***               Virtual Tape used to read the .AWS file.    ***
* ***    @IPADDR    to the IP address of the machine that      ***
* ***               currently holds the .AWS file, and that     ***
* ***               has the IBM Virtual Tape Server running    ***
* ***               in JAVA. This value must be enclosed in    ***
* ***               single quote marks ('). For example:        ***
* ***               '10.255.255.255'                           ***
* ***                                                         ***
* ***    @AWSFILE   to the fully qualified location and name   ***
* ***               of the Unicenter CA-Explore for CICS .AWS   ***
* ***               file. This Value must be enclosed in single ***
* ***               quote marks ('). For example:               ***
* ***               'E:\filename.AWS'                         ***
* ***                                                         ***
* ***************************************************************
// JOB     CAINSTC0          CATAL INSTALL JCL TO LIBRARY
// SETPARM LIBNAME=@LIBNAME  replace with library name
// SETPARM SUBNAME=@SUBNAME  replace with sublibrary name
// SETPARM TAPECUU=@TAPECUU  replace with install tape address
// SETPARM IPADDR=@IPADDR
// SETPARM AWSFILE=@AWSFILE
// ON $CANCEL GOTO RELTAP
DVCDN &TAPECUU
VTAPE START,UNIT=&TAPECUU,LOC=&IPADDR,
  FILE='&AWSFILE',READ
DVCUP &TAPECUU
// MTC REW,&TAPECUU
// MTC FSF,&TAPECUU.7
// ASSGN SYSIPT,&TAPECUU
// EXEC LIBR,SIZE=256K,PARM='ACCESS SUBLIB=&LIBNAME..&SUBNAME'
// RESET SYSIPT
// RELTAP
DVCDN &TAPECUU
VTAPE STOP,UNIT=&TAPECUU
DVCUP &TAPECUU
&
```
Installing the CA Product

Installing the CA Product

The job you use to install the product depends on the medium on which the product is delivered. It is one of the following:

- **CAINSTB2**—Use this job if your product is delivered on a physical tape.
- **CAINSTC2**—Use this job if your product is delivered as an ESD file.

Either job installs the CA product into test libraries, so that you can perform installation verification and testing prior to migrating the product into the production libraries. (Product migration is discussed later in this appendix.) If you prefer to install the product directly into an existing library and history file, see Performing a Direct CA Product Installation later in this chapter.

CAINSTB2 and CAINSTC2 are described in detail in the sections that follow.
Installing From a Physical Tape: CAINSTB2

Use the CAINSTB2 JCL to install the product from a physical tape into test libraries for verification and testing.

The following table describes the variable symbols for CAINSTB2:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@CUSTNME</td>
<td>Customer name used to personalize the MSHP History file</td>
</tr>
<tr>
<td>@CUSTADD</td>
<td>Customer address used to personalize the MSHP History file</td>
</tr>
<tr>
<td>@CUSTPHN</td>
<td>Customer phone number used to personalize the MSHP History file</td>
</tr>
<tr>
<td>@PROGNME</td>
<td>Customer programmer name used to personalize the MSHP History file</td>
</tr>
<tr>
<td>@INSTVOL</td>
<td>Volume serial number of the volume where the CA product installation history file will reside</td>
</tr>
<tr>
<td>@INSTREL</td>
<td>Relative track or block where the CA product installation history file is to begin</td>
</tr>
<tr>
<td>@INSTEXT</td>
<td>Number of tracks and blocks to be allocated to the CA product installation history file</td>
</tr>
<tr>
<td>@ILIBVOL</td>
<td>Volume serial number of the volume on which the CA product installation library will reside</td>
</tr>
<tr>
<td>@ILIBREL</td>
<td>Relative track or block where the product installation library is to begin</td>
</tr>
<tr>
<td>@ILIBEXT</td>
<td>Number of tracks or blocks to be allocated to the CA product installation library</td>
</tr>
<tr>
<td>@PRODCDE</td>
<td>CA product code for Unicenter CA-Explore for CICS—SP470</td>
</tr>
<tr>
<td>@PRODUCT</td>
<td>CA product name: Unicenter CA-Explore for CICS</td>
</tr>
<tr>
<td>@TAPECUU</td>
<td>Device address of the device on which the product tape will be mounted</td>
</tr>
</tbody>
</table>
Installing the CA Product

CAINSTALL2 Execution

CAINSTALL2 performs the following functions:

1. Opens SYSPCH using the extents of the history file. This measure avoids errors when the history file extent resides on a newly-defined VM minidisk.
2. Creates the CA installation libraries and history file for the product being installed from the product tape.
3. Installs the product into the installation history file and libraries.

Installing from an ESD File: CAINSTC2

Use the CAINSTC2 JCL to install the product from an ESD file into test libraries for verification and testing.

The following table describes the variable symbols for CAINSTC2:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@PRODCDE</td>
<td>CA product code for Unicenter CA-Explore for CICS—SP470</td>
</tr>
<tr>
<td>@INSTVOL</td>
<td>Volume serial number of the volume where the CA product</td>
</tr>
<tr>
<td></td>
<td>installation history file will reside</td>
</tr>
<tr>
<td>@INSTREL</td>
<td>Starting track number where the CA product installation history</td>
</tr>
<tr>
<td></td>
<td>file is to begin</td>
</tr>
<tr>
<td>@INSTTEXT</td>
<td>Number of tracks and blocks to be allocated to the CA product</td>
</tr>
<tr>
<td></td>
<td>installation history file</td>
</tr>
<tr>
<td>@TAPECUU</td>
<td>Device address of the IBM VSE Virtual Tape device used to read</td>
</tr>
<tr>
<td></td>
<td>the .AWS file.</td>
</tr>
<tr>
<td>@ILIBVOL</td>
<td>Volume serial number of the volume on which the CA product</td>
</tr>
<tr>
<td></td>
<td>installation library will reside</td>
</tr>
<tr>
<td>@ILIBREL</td>
<td>Starting track number where the product installation library is</td>
</tr>
<tr>
<td></td>
<td>to begin</td>
</tr>
</tbody>
</table>
Variable Description

@ILIBEXT Number of tracks to be allocated to the CA product installation library

@IPADDR IP address of the machine that currently holds the .AWS file, and that has the IBM VSE Virtual Tape Server running in JAVA. This value must be enclosed in single quotes ('). Example: ‘10.255.255.255’

@AWSFILE Fully qualified location and name of the Unicenter CA-Explore for CICS .AWS file. This value must be enclosed in single quotes ('). Example: ‘E:\filename.aws’

Make the following additional changes:

- Change each ‘./’ to a ‘//’.
- Change each ‘.*’ to a ‘/*’.
- Change each ‘.&’ to a ‘/&’.

CAINSTC2 Execution

CAINSTC2 performs the following functions:

1. Opens SYSPCH using the extents of the history file. This is a precautionary measure to avoid errors when the history file extent resides on a newly-defined VM minidisk.

2. Creates the CA installation libraries and history file for the product being installed from the ESD.

3. Installs the product into the installation history file and libraries.
Migrating the CA Product Into Production: CAINSTB3

Use CAINSTB3 to migrate a product into the production libraries and history file after the product is installed using CAINSTB2 or CAINSTC2.

**Note:** A product is migrated into production only after installation, customization, verification, and testing have been completed.

The sample JCL member CAINSTB3.Z is located in the library specified when either CAINSTB0 or CAINSTC0 was executed.

After this process is complete, the installation libraries and history file can be deleted.
The following table describes the variable symbols for CAINSTB3:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@HISTVOL</td>
<td>Volume serial number of the volume where the CA production history file will reside</td>
</tr>
<tr>
<td>@HISTREL</td>
<td>Relative track or block where the CA production history file is to begin</td>
</tr>
<tr>
<td>@HISTEXT</td>
<td>Number of tracks or blocks to be allocated to the CA production history file</td>
</tr>
<tr>
<td>@DLIBVOL</td>
<td>Volume serial number of the volume where the CA production library will reside</td>
</tr>
<tr>
<td>@INSTVOL</td>
<td>Volume serial number of the volume where the CA product installation history file will reside</td>
</tr>
<tr>
<td>@INSTREL</td>
<td>Relative track or block where the CA product installation history file is to begin</td>
</tr>
<tr>
<td>@INSTTEXT</td>
<td>Number of tracks or blocks to be allocated to the CA product installation history library</td>
</tr>
<tr>
<td>@ILIBVOL</td>
<td>Volume serial number of the volume where the CA product installation library will reside</td>
</tr>
<tr>
<td>@PRODCDE</td>
<td>The CA product code for Unicenter CA-Explore for CICS—SP470</td>
</tr>
</tbody>
</table>

**CAINSTB3 Execution**

CAINSTB3 merges the tested products into the production libraries and history file.
Performing a Direct CA Product Installation

A direct product installation installs the CA product into an existing library and history file. The job you use to install the product depends on the medium on which the product is delivered. It is one of the following:

- CAINSTQ4—Use this job if your product is delivered on a physical tape.
- CAINSTC4—Use this job if your product is delivered as an ESD file.

CAINSTQ4 and CAINSTC4 are described in detail in the sections that follow.

Installing Directly from a Physical Tape: CAINSTQ4

Use the CAINSTQ4 JCL to install the product from a physical tape directly into an existing library and history file.
Performing a Direct CA Product Installation

The following table describes the variable symbols for CAINSTQ4:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@DLIBVOL</td>
<td>Volume serial number of the volume on which the CA production library resides</td>
</tr>
<tr>
<td>@DLIBREL</td>
<td>Starting track number where the CA production library is to begin</td>
</tr>
<tr>
<td>@DLIBEXT</td>
<td>Number of tracks allocated to the CA production library</td>
</tr>
<tr>
<td>@HISTVOL</td>
<td>Volume serial number of the volume on which the CA production history file resides</td>
</tr>
<tr>
<td>@HISTREL</td>
<td>Starting track number where the CA production history file begins</td>
</tr>
<tr>
<td>@HISTEXT</td>
<td>Number of tracks allocated to the CA production history file</td>
</tr>
<tr>
<td>@TAPECUU</td>
<td>Device address of the device on which the product tape will be mounted</td>
</tr>
</tbody>
</table>

Make the following additional changes:
- Change each ‘/’ to a ‘//’.
- Change each ‘.*’ to a ‘/*’.
- Change each ‘.&’ to a ‘/&’.

**CAINSTQ4 Execution**

CAINSTQ4 installs Unicenter CA-Explore for CICS from a physical tape into an existing library and history file.
Performing a Direct CA Product Installation

Installing Directly from an ESD File: CAINSTC4

Use the CAINSTC4 JCL to install the product from an ESD file, using IBM VSE Virtual Tape, directly into an existing library and history file.

The following table describes the variable symbols for CAINSTC4:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@DLIBVOL</td>
<td>Volume serial number of the location of the CA production library you are using</td>
</tr>
<tr>
<td>@DLIBNAM</td>
<td>File name of the CA production library you are using</td>
</tr>
<tr>
<td>@DLIBID</td>
<td>File ID of the CA production library being used. This must be enclosed in single quotes ('). Example: ‘CAI.PRODUCT.LIBRARY’</td>
</tr>
<tr>
<td>@HISTVOL</td>
<td>Volume serial number of the location of the CA production history file you are using</td>
</tr>
<tr>
<td>@HISTREL</td>
<td>Starting track number where the CA production history file begins</td>
</tr>
<tr>
<td>@HISTTEXT</td>
<td>Number of tracks allocated to the CA production history file being used</td>
</tr>
<tr>
<td>@HISTID</td>
<td>File ID of the history file being used. This must be enclosed in single quotes ('). Example: ‘CAI.PRODUCT.HISTORY.FILE’</td>
</tr>
<tr>
<td>@TAPECUU</td>
<td>Device address of the IBM VSE Virtual Tape used to read the .AWS file</td>
</tr>
<tr>
<td>@IPADDR</td>
<td>IP address of the machine that currently holds the .AWS file, and that has the IBM VSE Virtual Tape Server running in JAVA. This value must be enclosed in single quotes ('). Example: ‘10.255.255.255’</td>
</tr>
<tr>
<td>@AWSFILE</td>
<td>Fully qualified location and name of the Unicenter CA-Explore for CICS for .AWS file. This value must be enclosed in single quotes ('). Example: ‘E:\filename.aws’</td>
</tr>
</tbody>
</table>
Performing a Direct CA Product Installation

Make the following additional changes:

Change each ‘/’ to a ‘//’.
Change each ‘.*’ to a ‘*/’.
Change each ‘.&’ to a ‘/&’.

CAINSTC4 Execution

CAINSTQ4 installs Unicenter CA-Explore for CICS from a physical tape into an existing library and history file.
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