Unicenter® CA-XCOM® Data Transport® for z/OS

Getting Started

r11
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Chapter 1 Welcome

This guide introduces Unicenter® CA-XCOM® Data Transport® to you in an efficient and visual manner. By the time you have finished reading this guide, you will have an overview of the wide scope of the product and its usability will be familiar to you. It is important to us that you feel comfortable with Unicenter CA-XCOM Data Transport for z/OS before you begin to use it.

Note: Although there are extensive similarities between all of the Unicenter CA-XCOM Data Transport components on the various platforms, you should always refer to the corresponding user guide when requiring specific information about a function or system operations.

About Unicenter CA-XCOM Data Transport

Unicenter CA-XCOM Data Transport is a family of software products that operates under SNA using LU 6.2, and under TCP/IP, to provide high-speed data transfer between supported systems—mainframes, minicomputers, PCs, servers, and workstations. Users can send files from the local system to remote systems across an SNA network or using TCP/IP, and retrieve files from those systems. The same transfer capabilities are available to the local and remote system.
What Does Unicenter CA-XCOM Data Transport Do?

Unicenter CA-XCOM Data Transport allows data centers in various locations worldwide to interact with each other for the purposes of sharing data, and automating data and report distribution.

The following applications are a few examples of how Unicenter CA-XCOM Data Transport can be used to interact with other computers and workstations company-wide and worldwide:

- Sharing data
- Automating data and report distribution
- Providing unattended backup to dissimilar computers
- Distributing price information from a main data center to departmental stores
- Distributing application software to remote computers
- Providing distributed processing with the sendjob function

The applications listed above are only a few examples. Under most conditions, Unicenter CA-XCOM Data Transport allows file sharing between any two computers or workstations within your company.

Multiple User Interfaces

Any computer using Unicenter CA-XCOM Data Transport can communicate with any other machine using Unicenter CA-XCOM Data Transport. Transfers can be invoked through the following methods:

- Menu interface
- Batch/command line interface
- Application Programming Interface (API)
Unified Solution

Unicenter CA-XCOM Data Transport is a unified solution. It supports communications over more hardware environments than any other software product on the market today. Unicenter CA-XCOM Data Transport also has a solid technology base. By using LU 6.2 or TCP/IP communications protocols, Unicenter CA-XCOM Data Transport uses state-of-the-art technology, protecting your company’s investment for years to come.

Unicenter CA-XCOM Data Transport Applications

The key to the considerable flexibility of Unicenter CA-XCOM Data Transport is its ability to transfer the following:

- Files
- Jobs
- Reports

When these functions are combined, a wide variety of applications are possible.

File Transfer

Unicenter CA-XCOM Data Transport supports high-speed file transfers between all supported processors. In some environments, you can queue thousands of transfers resulting in hundreds of simultaneous transfers, all with a single operation. Parallel sessions are possible in varying degrees throughout the product line.

You can totally automate Unicenter CA-XCOM Data Transport transfers. On a PC, you can be actively engaged in the use of other applications (for example, word processing) while receiving or transmitting files in the background. Comprehensive management tools allow for effective central-site control of Unicenter CA-XCOM Data Transport activity, including advanced problem determination features.
Unicenter CA-XCOM Data Transport supports transfers between any two processors in an SNA network or a TCP/IP network with one of the following methods:

- By using the z/OS, VM, or VSE mainframes for store-and-forward
- Through Independent Logical Unit (ILU) support over the SNA (Systems Network Architecture) backbone
- Through use of the TCP/IP network (except for VM, VSE, Stratus, and DOS)

**Type 2.1 Support**

Unicenter CA-XCOM Data Transport supports node Type 2.1 connections to allow the direct interchange of files between Windows NT, AS/400s, NetWare workstations, and others. Support for Independent Logical Units (ILUs) allows Unicenter CA-XCOM Data Transport to deliver data in Advanced Peer to Peer Networking (APPN) and Low Entry Networking (LEN) networks. This means that PCs and minicomputers attached to the same SNA or APPN network can exchange data even if they are not directly connected.

**TCP/IP Support**

Unicenter CA-XCOM Data Transport provides support for performing transfers using TCP/IP between platforms that support TCP/IP and that are running Advantage CA-XCOM Data Transport 3.0 or 3.1 or Unicenter CA-XCOM Data Transport r11. TCP/IP support is provided between the following platforms:

- AS/400
- Linux S/390
- Linux x86
- NetWare
- Open VMS Alpha
About Unicenter CA-XCOM Data Transport

- OS/2
- Tandem
- Windows NT family (2000, 2003, and XP)
- z/OS
- Most common UNIX platforms

You can use the Secure Socket Layer (SSL) to perform secure TCP/IP transfers between platforms running Unicenter CA-XCOM Data Transport r11 and above that support secure TCP/IP. A secure TCP/IP transfer allows for the encryption of the transmitted data. It also adds a digital signature to the encryption of the transmitted data. Unicenter CA-XCOM Data Transport uses OpenSSL to implement a secure TCP/IP transfer. Secure TCP/IP support is provided between the following platforms:

- Linux S/390
- Linux x86
- Windows NT family (2000, 2003, and XP)
- z/OS
- Most common UNIX platforms

Report Distribution

Unicenter CA-XCOM Data Transport allows z/OS, VM, VSE, AS/400 and VAX users to take print output from any supported system and automatically transfer it to another system for printing. The application programs producing the reports do not require any modification to support Unicenter CA-XCOM Data Transport report distribution, and no operator intervention is required at either end.
Unicenter CA-XCOM Data Transport

RJE/NJE Replacement

Current Remote Job Entry (RJE) systems contain inherent limitations. Remote computers can submit work to the host for processing and receive print data, but the host cannot distribute processing tasks to idle processors residing on the network. A further concern for data processing managers is the requirement that users are familiar with Job Entry Subsystem (JES) commands to operate the system.

Unicenter CA-XCOM Data Transport avoids these limitations by taking advantage of the LU 6.2 and TCP/IP protocols, providing a peer-to-peer relationship between all supported systems. Any Unicenter CA-XCOM Data Transport system is able to send and receive batch jobs and print data from any other Unicenter CA-XCOM Data Transport system without formatting constraints.

For example, an AS/400 user can do the following:

- Automatically retrieve files from a number of attached PCs.
- Process the data.
- Generate a report.
- Send one copy of the report back to the source PC for printing.
- Send another to the z/OS mainframe for printing on a high-speed printer.

You can easily implement Unicenter CA-XCOM Data Transport without any changes to your existing application programs. Data is transferred with greater integrity and higher efficiency.
Unicenter CA-XCOM Data Transport Features

Unicenter CA-XCOM Data Transport provides peer-to-peer communications using LU 6.2 or TCP/IP over a wider range of systems than any other product. All of the major features of Unicenter CA-XCOM Data Transport are supported across the product line.

Modular Support of Most Systems

By supporting the LU 6.2 and TCP/IP protocols, Unicenter CA-XCOM Data Transport can transfer data between a diversity of platforms. Unicenter CA-XCOM Data Transport is now available on the following systems:

- IBM z/OS
- IBM VM
- IBM VSE
- IBM A5/400
- Stratus
- OpenVMS Alpha
- VMS/VAX
- Tandem
- IBM RS/6000
- HP 9000
- SCO UnixWare
- OS/2
- SCO OpenServer
- Siemens/Nixdorf SINIX
- Linux S/390
- Sun Solaris
- NCR 3000 (AT&T)
- PC or MS-DOS
- NetWare
- Windows 98
- Windows NT
- Windows 2000
- Windows XP
- Sequent
- Data General DG/UX
- Digital UNIX
Data Link Types

Unicenter CA-XCOM Data Transport supports the following data link types:

- SDLC
- X.25
- Async, Autosync
- Local Area Network (such as Token Ring and Ethernet)
- All SNA data links, including channel-based links
- TCP/IP

Standard Features

The following features are standard to Unicenter CA-XCOM Data Transport:

- **Simple installation** — You can install Unicenter CA-XCOM Data Transport without hardware changes to your system.
- **Initiation by either computer (any-to-any)** — Either computer can send and retrieve data files.
- **Low maintenance** — There are no hooks or patches into the operating system.
- **Choice of interfaces** — You can choose from batch/command line, programming (on supported platforms), and menu interfaces.
Standard Functions

The following functions are offered over most of the Unicenter CA-XCOM Data Transport platforms:

- **Compression** — Unicenter CA-XCOM Data Transport compresses repeating characters prior to transmission. In certain cases, throughput is significantly higher than the actual line speed.

- **ASCII/EBCDIC translation** — Unicenter CA-XCOM Data Transport can translate data between ASCII and EBCDIC formats as needed.

- **Checkpoint/Rerstart** — All components of Unicenter CA-XCOM Data Transport support checkpoint/restart. Transfers that are stopped or fail prior to completion automatically resume, continuing from the last checkpoint.

- **Store-and-forward** — Users communicating through a common z/OS, VM, or VSE hub can perform data transfers even if the remote (target) machine is not communicating or turned on at the time of the initial transfer. Unicenter CA-XCOM Data Transport ensures that the data is sent as soon as the device is available.

- **Remote spooling** — Unicenter CA-XCOM Data Transport allows z/OS, VM, VSE, AS/400, and VAX users the following reporting options:
  - Unicenter CA-XCOM Data Transport on all platforms can receive reports.
  - Unicenter CA-XCOM Data Transport on all platforms can send a file to a remote Unicenter CA-XCOM Data Transport partner, requesting that it be treated as a report.
Unicenter CA-XCOM Data Transport Features

- Some Unicenter CA-XCOM Data Transport platforms can also take reports off the system spool and forward them to another Unicenter CA-XCOM Data Transport platform without operator action. This automatic report transfer facility is called Process SYSOUT on z/OS and VSE, and it is called XQUE on AS/400 and VAX. VM does not allow automatic processing of spooled files. However, spooled files on VM can be manually received and redirected.

High Capacity and Performance

Unicenter CA-XCOM Data Transport is optimized for high-speed bulk data transfer. For instance, Unicenter CA-XCOM Data Transport for z/OS can allow hundreds of simultaneous file transfers from a single machine, depending upon your hardware and software configuration. Comparatively, CICS-based products limit the user to a maximum of 34 simultaneous transfers, and many other VTAM file transfer products are faced with similar limitations.

Security

Unicenter CA-XCOM Data Transport interfaces with the native security facility on all supported systems. When security is invoked, you are required to provide a valid user ID and password for the remote system. For example, in the z/OS environment, an interface is also provided to IBM RACF, eTrust™ CA-ACF2® Security, and eTrust™ CA-Top Secret® Security. On PC and OS/2 versions of Unicenter CA-XCOM Data Transport (where no native security exists), you are given the option to create an ID/password table to prevent unauthorized use of Unicenter CA-XCOM Data Transport.

Unlike most other communication facilities, Unicenter CA-XCOM Data Transport encrypts passwords. This ensures that communications line tapping does not breach security.
Unicenter CA-XCOM Data Transport also has special security capabilities that can help data centers handle their individual needs. For example, the security features of Unicenter CA-XCOM Data Transport allow installer specification of what can or cannot run under the privileges of someone other than the person requesting the transmission. These security features can also force user IDs from both remote computers to be the same or different. For otherwise unsatisfied security needs, Unicenter CA-XCOM Data Transport supplies a variety of user exits, which enable user-written security packages to be fully integrated.

Management

An important feature for any enterprise-wide information product is the ability to effectively control and manage the distribution of files and work throughout the network. Unicenter CA-XCOM Data Transport systems maintain a comprehensive log of all transfer activity. Utilities are provided to allow the system administrator to view the log online and modify the status of pending or currently active transfers.

Details of any transfer errors are also maintained in the log, allowing rapid problem determination and resolution. In addition, messages signaling the completion of any Unicenter CA-XCOM Data Transport event can be directed to a user in the network.
Types of Transfers

Unicenter CA-XCOM Data Transport performs the following transfers:

- **Sending files** — With Unicenter CA-XCOM Data Transport, a computer can send a data file to be stored on the remote system in a specified “remote” file.

- **Sending reports** — Unicenter CA-XCOM Data Transport can send a report to be printed on a remote system.

- **Sending batch jobs for execution** — Unicenter CA-XCOM Data Transport can send a job to be executed on a remote system.

- **Retrieving files** — When a computer starts the transmission request, it can also retrieve a file from a remote computer and store it in a specified local “remote” file.
Answering Remote Requests

Unicenter CA-XCOM Data Transport monitors the network for incoming requests. Upon detecting one, Unicenter CA-XCOM Data Transport determines whether it is a request to send a file inbound (from the remote system to this machine) or outbound (from this machine to another system).

- **Files** — The remote system can send or retrieve files. When a remote system requests Unicenter CA-XCOM Data Transport to send it a file, Unicenter CA-XCOM Data Transport tries to allocate and open the file. Unicenter CA-XCOM Data Transport then reads the data records and transfers them to the remote system.

- **Jobs** — The remote system can use Unicenter CA-XCOM Data Transport to submit jobs to the local system.

- **Reports** — The remote system can send the local system a report. Unicenter CA-XCOM Data Transport writes the report to an output spool file. Each supported system has unique spooling capabilities and Unicenter CA-XCOM Data Transport has been designed to provide a high degree of print redirection and manipulation.

CA Technology Services: Delivering Business Value On Your Terms

CA Technology Services is a global organization of highly trained, experienced professionals who are determined to provide you with the technical expertise you need, when and how you need it. From implementing a CA solution to helping you get the most out of the CA technology that you have, CA Technology Services is committed to delivering business value to you on your terms.
Our professionals understand your unique business needs and work closely with you to assess which technology is right for your business. Whether the assignment is large or small or you need a custom, stand-alone, or packaged solution, we tailor our efforts to meet your business demands.

By offering a broad range of flexible services, we help you maximize your investment in our technology, achieve more efficient IT performance, and better manage your infrastructure, security, storage, applications, and data. Such flexibility ensures that you reach your time-to-market goals while improving your business performance.

Why not ask your CA representative for more information about how a CA Technology Services professional can help your organization get the most out of your CA business solutions?

CA Education Services: Ready When You Are

CA Education Services lets you realize the full potential of your CA investment by providing comprehensive training focused on how to implement, use, and administer CA products. We deliver these services through flexible options—including traditional classroom, web-based, and self-paced training—that are customized to meet your specific requirements. All CA instructors are fully certified and provide you with real-world hands-on experience and guidance. Armed with the most up-to-date training, you will have the knowledge you need to successfully leverage the capabilities of your CA software and obtain maximum value.

For a complete list of courses that CA Education Services offers, visit [http://ca.com/education](http://ca.com/education) or call 1-800-237-9273.
Computer Associates: Commitment, Quality, Innovation

For more than a quarter century, CA has been developing and supporting software solutions that are currently used by more than 99 percent of the Fortune 500 companies in more than 100 countries. CA is committed to offering leading technologies in flexible partnerships to help you derive full value from your software investments.

At Computer Associates, we are committed to offering simple and meaningful solutions to your complex problems, and to delivering management solutions that offer security, reliability, availability, and performance. We work hard to achieve the highest levels of quality in our solutions to help you meet your changing business needs.

To meet these needs, CA’s world-class solutions address all aspects of process management, information management, and infrastructure management with six focus areas:

- Enterprise management
- Security
- Storage
- Portal and business intelligence
- Database management
- Application life cycle management and application development

In addition, our innovative approach to technology is carried over into our innovative business solutions. From a revolutionary new business model to a dedicated customer relationship organization, CA is responding to your changing business needs.
We know what it takes to deliver and support valuable solutions 24 hours a day, 7 days a week, 365 days a year while maintaining the highest standards for quality and innovation:

- We are the first global enterprise software company to meet the exacting standards for worldwide ISO 9001:2000 certification.
- We have earned over 150 patents for innovative software solutions.
- We have the highest caliber software developers and consultants in the industry.

We also know you expect us to stand by our commitments. And we do.

For More Information

After reading this Getting Started, you can refer to the numerous resources available to you for additional information. Your product CD contains instructional documents that showcase your software and provide detailed explanations about the product’s comprehensive, feature-rich components. In addition, you can obtain procedural information and answers to any questions you may encounter by accessing the Computer Associates website at http://ca.com/supportconnect. For telephone assistance, call 1-800-645-3042 (U.S. and Canada) or (1) 631-342-4683 (International).
Chapter
2
Installation Overview

The installation of Unicenter CA-XCOM Data Transport for z/OS from tape requires the use of IBM’s System Modification Program/Extended (SMP/E). SMP/E provides a framework within which all product-related activities – installation, customization, maintenance – can be performed in a consistent manner.

Tape Contents and Format

The machine-readable program materials required for installation are distributed as a multi-file installation tape in SMP format. This tape contains all the necessary data to install and execute Unicenter CA-XCOM Data Transport for z/OS.

Major SMP Operations

There are three major operations performed by SMP when installing a product or performing maintenance. These operations manage a structure wherein a given product is present in two places: distribution libraries and target system libraries. The distribution libraries are used for maintenance operations only. The product executes from the target system libraries.
The operations performed are as follows:

**RECEIVE Processing**

The installation tape is loaded by SMP into temporary data sets. If any error is detected, or the user wishes to stop the process at this point, a REJECT operation may be run, which undoes anything done during RECEIVE processing.

**APPLY Processing**

During APPLY processing, SMP performs the operations dictated by the modification control statements (MCS), and updates the target system libraries. The user may then test the modification. If the installation is to be aborted at this point, a RESTORE operation may be run, which restores the system libraries from the distribution libraries.

**ACCEPT Processing**

When the ACCEPT operation is run, the modification is permanently placed in the distribution libraries. There is no direct way to undo the modification once ACCEPT has been run.

---

**System Requirements**

For system requirements, see the Readme file.
Installation Materials

Computer Associates provides the following materials for installation and use of Unicenter CA-XCOM Data Transport for z/OS.

- A standard label magnetic cartridge or standard label magnetic tape recorded at 6250 BPI (DCB=DEN=4) containing Unicenter CA-XCOM Data Transport for z/OS. The Volume Serial number is XC<sup>yy</sup><sup>mm</sup>, where XC is the Unicenter CA-XCOM Data Transport for z/OS product ID, yy is the last two digits of the year, and mm is the month (for example, XC0302). The installation tape contains the following files:

<table>
<thead>
<tr>
<th>File #</th>
<th>DNAME</th>
<th>Attributes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 8</td>
<td></td>
<td></td>
<td>These reside on the CA Common Services for z/OS installation tape.</td>
</tr>
<tr>
<td>9</td>
<td>CAI.SAMPJCL</td>
<td>IEBCOPY UNLOAD</td>
<td>An unloaded PDS containing the installation JCL for Unicenter CA-XCOM Data Transport for z/OS</td>
</tr>
<tr>
<td>10</td>
<td>CAI.HELP</td>
<td>121/6144/VB</td>
<td>Combined product HELP text</td>
</tr>
<tr>
<td>11 - 15</td>
<td></td>
<td></td>
<td><strong>Note:</strong> Files 14 and 15 are the only files currently in use by Unicenter CA-XCOM Data Transport for z/OS</td>
</tr>
<tr>
<td>16</td>
<td>CAI.XCMB0.PDFTGZ</td>
<td>6144 / U</td>
<td>Unicenter CA-XCOM Data Transport for z/OS online documentation in PDF format</td>
</tr>
</tbody>
</table>
## Installation Materials

<table>
<thead>
<tr>
<th>File #</th>
<th>DSNAME</th>
<th>Attributes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>CAI.XCMB0.MAKECERT</td>
<td>6144 / U</td>
<td>Unicenter CA-XCOM Data Transport for z/OS Certificate Sample Scripts</td>
</tr>
<tr>
<td>32</td>
<td>SMPMCS</td>
<td>80/7200/FB</td>
<td>SMP modification control statements (MCS)</td>
</tr>
<tr>
<td>33</td>
<td>SYSMOD.Fn</td>
<td>IEBCOPY UNLOAD</td>
<td>SMP RELFILES which SMP downloads to disk during RECEIVE processing</td>
</tr>
</tbody>
</table>

- This *Unicenter CA-XCOM Data Transport for z/OS Getting Started*.

**Note:** This is the only printed guide distributed with Unicenter CA-XCOM Data Transport. The other guides are distributed in Adobe PDF format, downloadable from the product tape.
This chapter describes how to install Unicenter CA-XCOM Data Transport for z/OS using SMP/E.

**Important!** If you currently have Version 3.1 and need to upgrade to r11, see the chapter “Migrating to r11” for more information to help you in this process.

### Summary of the Installation Process

The following table summarizes the steps involved in the Unicenter CA-XCOM Data Transport for z/OS installation process and identifies the data sets used at each step. Note that installation steps 6, 7, and 14 must be performed only if Unicenter CA-XCOM Data Transport for z/OS is to have CICS. Step 9a must be performed only for customizing the Language Environment options. Step 9b is required for all installations. Several steps have multiple substeps that are not listed in the table below.
Summary of the Installation Process

Be sure to completely review each step. Review this list before attempting to install Unicenter CA-XCOM Data Transport for z/OS. You may want to use it as a checklist during the actual installation.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Data Set/Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>Unload the installation JCL from the tape.</td>
<td>CAIXCB0.SAMPJCL</td>
</tr>
<tr>
<td>1b</td>
<td>Optional. Unload the online documentation files from the tape. Available as Adobe PDF files.</td>
<td>CAIXCMB0.PDFTGZ</td>
</tr>
<tr>
<td>2a</td>
<td>Allocate and initialize the private SMP libraries for all CA products in SMP/E format.</td>
<td>CAINITE5</td>
</tr>
<tr>
<td>2b</td>
<td>Optional. Define separate target and distribution zones for the current version of Unicenter CA-XCOM Data Transport for z/OS.</td>
<td>XCB0ZONE</td>
</tr>
<tr>
<td>3</td>
<td>Allocate target and distribution libraries required by Unicenter CA-XCOM Data Transport for z/OS.</td>
<td>XCB0ALC</td>
</tr>
<tr>
<td>4</td>
<td>Install the SMP procedure for SMP/E users.</td>
<td>CAIXCB0</td>
</tr>
<tr>
<td>5</td>
<td>Execute an SMP RECEIVE function to load the functional SYSMODs for Unicenter CA-XCOM Data Transport for z/OS.</td>
<td>XCB0REC</td>
</tr>
<tr>
<td>6</td>
<td>Required only when installing the Unicenter CA-XCOM Data Transport for z/OS with the CICS interface. Define the Unicenter CA-XCOM Data Transport CICS load library to the target zone.</td>
<td>XCB0DDEF</td>
</tr>
</tbody>
</table>
## Summary of the Installation Process

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Data Set/Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td><strong>Required only when installing the Unicenter CA-XCOM Data Transport for z/OS with the CICS interface.</strong> Unload the Unicenter CA-XCOM Data Transport CICS help and CSD files.</td>
<td>XCB0CICS</td>
</tr>
<tr>
<td>8</td>
<td>Apply the functional SYSMODs to Unicenter CA-XCOM Data Transport for z/OS.</td>
<td>XCB0APP</td>
</tr>
<tr>
<td>9</td>
<td>Set Language Environment Runtime options and define the Language Environment Runtime Library to the target zone.</td>
<td>XCB0COPT, XCB0CRTN</td>
</tr>
<tr>
<td>10</td>
<td>Unload the Unicenter CA-XCOM Data Transport for z/OS Certificate Sample Scripts</td>
<td>XCB0MKCT</td>
</tr>
<tr>
<td>11</td>
<td>Execute CAIRIM to install the product LMP key.</td>
<td>N/A</td>
</tr>
<tr>
<td>12</td>
<td>Install the Unicenter CA-XCOM Data Transport libraries and TSO/ISPF facility.</td>
<td>N/A</td>
</tr>
<tr>
<td>13</td>
<td>Configure Unicenter CA-XCOM Data Transport for z/OS.</td>
<td>N/A</td>
</tr>
<tr>
<td>14</td>
<td><strong>Required only when installing the Unicenter CA-XCOM Data Transport for z/OS with the CICS interface.</strong> Install and configure the Unicenter CA-XCOM Data Transport CICS interface.</td>
<td>N/A</td>
</tr>
<tr>
<td>15</td>
<td>Apply the ACCEPT operation to the functional SYSMODs for Unicenter CA-XCOM Data Transport for z/OS.</td>
<td>XCB0ACC</td>
</tr>
</tbody>
</table>
Step 1. Unload the Installation Tape

This step has two substeps: unloading the installation JCL and unloading the product documentation. The product documentation is provided in Adobe PDF format.

Step 1a. Unload the Installation JCL from the Tape

The product tape received with this package contains all the necessary data to install and execute Unicenter CA-XCOM Data Transport for z/OS. Before installing the product, you should load the sample JCL library from tape. This file, DSN=CAI.SAMPJCL, is the ninth file on the tape and it is in IEBCOPY unloaded format.

To unload CAI.SAMPJCL to disk, use the following JCL:

```
//SCL JOB
//UNLOAD EXEC PGM=IEBCOPY
//SYSIN DD SYSOUT=A
//SYSUT1 DD DSN=CAI.SAMPJCL,DISP=(OLD,PASS),
// UNIT=(TAPE,DEFER),VOL=(,RETAIN,SER=XCyymm),
// LABEL=(9,SL)
//SYSUT2 DD DSN=CAI.XCB0.SAMPJCL,DISP=(,CATLG),
// SPACE=(TRK,(3,1,10)),UNIT=uuuu,VOL=SER=vvvvvv,
// DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB)
//SYSIN DD DUMMY
```

The library CAI.XCB0.SAMPJCL created by this job contains all of the JCL and macro members referred to in this guide and needed to complete the installation of Unicenter CA-XCOM Data Transport for z/OS.

The member $$XCINDX in the SAMPJCL library contains an index, along with a description and installation task number for each member included in the Unicenter CA-XCOM Data Transport for z/OS SAMPJCL library.

The remaining files on the installation tape are unloaded by the SMP RECEIVE process or during the installation of the various Unicenter CA-XCOM Data Transport components (CICS, TCP/IP).
Step 2. Allocate Private SMP/E Libraries and Define SMP Zones

**Step 1b. Unload the Documentation Files from the Tape**

SAMPJCL member XCB0PDFD contains JCL to download the documentation for Unicenter CA-XCOM Data Transport for z/OS in Adobe Acrobat Reader (PDF) format. After performing this step you need to transmit the data set to a UNIX or PC environment that supports the Adobe Acrobat Reader. For more information, see SAMPJCL member PDFDOC.

The guides are also on the Computer Associates web-based support page at [http://ca.com/supportconnect](http://ca.com/supportconnect).

**Step 2. Allocate Private SMP/E Libraries and Define SMP Zones**

This installation step has two substeps. Step 2a is not required if SMP data sets have been created during the installation of another Computer Associates product. Step 2b is not required but is recommended for all sites.

**Step 2a. Allocate and Initialize Computer Associates Base SMP Libraries**

The SAMPJCL library contains the member CAINITE5. This member allocates and initializes a set of private SMP data sets and defines CAI global, target, and distribution libraries. This is recommended to keep Computer Associates products as distinct entities from other SMP data sets. (Note that Unicenter CA-XCOM Data Transport r11 cannot use the same SMP CSI as version 3.1.) Unicenter CA-XCOM Data Transport for z/OS can be installed in the default target and distribution zones. However, we recommend that Unicenter CA-XCOM Data Transport for z/OS be installed in its own zones. For detailed information, see Step 2b.
Step 2. Allocate Private SMP/E Libraries and Define SMP Zones

Before submitting the job CAINITE5, you need to do the following:

1. Change the variables defined within the procedure, if necessary. The default values are:

   VOLSER=
   CAI='CAI.'
   SYSOUT='**'
   PERMDA=DISK
   WORK=SYSDA

2. Verify the data set names and volume serial numbers specified with the IDCAMS DEFINE CLUSTER statement. The defaults are:

   NAME(CAI.SMPCSI.CSI)
   NAME(CAI.SMPCSI.DATA)
   VOLUME(XXXXXX)
   NAME(CAI.SMPCSI.INDEX)
   VOLUME(XXXXXX)

   The high-level index of CAI must match the CAI='CAI.' variable specified in Step 1 above.

3. Following the UCLIN command, verify the data set names specified with the next two REP statements. They appear as:

   ZONEINDEX(
   (CAITGT,CAI.SMPCSI.TARGET)
   (CAIDLIB,CAI.SMPCSI.CSI.DLIB)
   ...
   DSPREFIX(CAI)

   The high-level index of CAI must match the CAI='CAI.' variable specified at 1 above.

Submit the job and review the output. If the job completed with a return code greater than 4, correct the problem and resubmit.
Step 2. Allocate Private SMP/E Libraries and Define SMP Zones

Step 2b. Define Separate Target and Distribution Zones for the Current Version of Unicenter CA-XCOM Data Transport

This step adds a separate target zone and distribution zone for the current version (r11) of Unicenter CA-XCOM Data Transport to an existing CAI.CSI. The CAI.CSI may have been created in the previous step or during the installation of another Computer Associates product.

We recommend that separate target and distribution zones be created for the current version of the product to simplify product maintenance. Member XCB0ZONE in the SAMPJCL library creates the r11 zones. Following the UCLIN command, verify the data set names specified on the ADD GLOBALZONE statement. They appear as:

```
ZONEINDEX(
  (CXCB0T,CAI.SMPCSI.TARGET)
  (CXCB0D,CAI.SMPCSI.CSI.DLIB)
)
```

The high-level index of CAI must match the CAI='CAI.' variable specified at 1 above.

Submit the job and review the output. If the job completed with a return code greater than 4, correct the problem and resubmit.

During APPLY and ACCEPT processing, you must specify the new r11 zone names.
Step 3. Allocate Target and Distribution Libraries

Member XCB0ALC allocates all the target and distribution libraries required by Unicenter CA-XCOM Data Transport for z/OS and the common CA-PROFILE component. For Japanese support, see the appendix “Installation for Japanese ISPF Panel Support.”

Since many Computer Associates products have common components, common libraries may already be installed at your site. Therefore, carefully analyze the installation steps to ensure that you do not repeat allocations that have already been performed.

Edit the member XCB0ALC to conform to your installation standards. The defaults are as follows:

- TVOLSER='??????'
- DVOLSER='??????'
- CAI='CAI.'
- UNIT=SYSDA

All space allocations supplied in this member are in blocks to allow for compatibility between DASD types. The allocations given are the minimum required for installing Unicenter CA-XCOM Data Transport for z/OS. You may want to adjust these for your installation device types and to allow enough free space for maintenance (the more free space you allocate, the less often the libraries are compressed during maintenance). For common libraries already present, be sure there is sufficient space for Unicenter CA-XCOM Data Transport for z/OS.

Comment the DD statements for any components that you are not going to receive. See Step 5.

Submit member XCB0ALC and review the output.

**Note:** TCP/IP, the optional component of Unicenter CA-XCOM Data Transport for z/OS, uses the base (CINB000) target and distribution libraries.
Step 4. Install the SMP Procedure for SMP/E Users

The SAMPJCL library contains a JCL procedure named CAIXCB0, which are used by subsequent RECEIVE, APPLY, and ACCEPT steps. For Japanese support, see the appendix “Installation for Japanese ISPF Panel Support.”

Edit the procedure to conform to your installation standards. The default values that can be modified are:

- TLIB=DUMSER
  - CAI='CAI.'
  - SYSOUT='*
  - PERMDA=SYSDA
  - WORK=SYSDA
  - TAPE=TAPE

Place CAIXCB0 into a system procedure library.

Step 5. Receive the Unicenter CA-XCOM Data Transport for z/OS and Common Components

Member XCB0REC in the SAMPJCL library applies the RECEIVE function to Unicenter CA-XCOM Data Transport for z/OS and the common components (functional SYSMODs), executing the procedure customized in Step 4. For Japanese support, see the appendix “Installation for Japanese ISPF Panel Support.”

Edit XCB0REC to conform to your installation standards.
Step 5. Receive the Unicenter CA-XCOM Data Transport for z/OS and Common Components

Examine the RECEIVE SELECT list and edit the SYSMOD references as follows:

<table>
<thead>
<tr>
<th>SYSMOD</th>
<th>Optional?</th>
<th>Provides</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINB000</td>
<td>NO</td>
<td>Base function of Unicenter CA-XCOM Data Transport for z/OS</td>
</tr>
<tr>
<td>CINB005</td>
<td>YES</td>
<td>OpenSSL libraries</td>
</tr>
<tr>
<td>CIPB000</td>
<td>YES</td>
<td>CICS interface</td>
</tr>
</tbody>
</table>

**Note:** SYSMOD CINB005 contains the OpenSSL libraries (modules LIBCRYPT and LIBSSL). If these libraries have already been installed by another Computer Associates product, the install for CINB005 fails. If this is the case, verify that the LIBCRYPT and LIBSSL libraries are available to the Unicenter CA-XCOM Data Transport runtime.

Submit the job and review the output to verify that the RECEIVE processing ran successfully. If RECEIVE completed with an SMP return code greater than 4, review the output, correct the problem, and resubmit.

**WARNING!** To ensure proper installation and maintenance of this product, all required SYSMODs specified in the SMP control statements for this job must be selected. During the APPLY and ACCEPT steps, SMP propagates all zones that are appropriate for the product. Elimination of any required SYSMOD from the installation process may cause failures in customization or future maintenance of the product.
Step 6. Define the CICS Load Library to the Target Zone

You need to perform this installation step only if you are installing the CICS interface of Unicenter CA-XCOM Data Transport for z/OS.

In the following SAMPJCL member, XCB0DDEF:

1. Modify the following line to conform to your installation standards:
   
   DA(CICSSYS. . . )

2. Submit the member.

```bash
//XCB0DDEF JOB (ACCOUNT), 'COMPUTER ASSOCIATES'
/*-----------------------------*/
/* CA-XCOM for z/OS r11 CICS OPTION ONLY (CIPB000) */
/* DEFINE CICS LOAD LIBRARY AND INCLUDE MODS */
/* TO THE TARGET ZONE */
/* NOTES: SMP CONTROL STATEMENTS DEFAULT TO SMP/E SYNTAX */
/* COPYRIGHT (C) - COMPUTER ASSOCIATES INTERNATIONAL, INC. */
/*-----------------------------------------------*/
//XCB0DDEF EXEC CAIXCB0 /* INVOKE SMP PROCEDURE */
//SMPPTFIN DD *
++USERMOD(MIPB000) /* THIS USERMOD CAUSES THE CICS LINKEDIT */
++VER(2038) FMID(CIPB000) /* MVS 3.8, V3.2 */.
++MOD(DFHEAI) DISTLIB(CIPB0LLD) LKLIB(CICSLOAD) .
++MOD(DFHEAI0) DISTLIB(CIPB0LLD) LKLIB(CICSLOAD) .
//SMPCNTL DD *
SET BDY(GLOBAL) .
RECEIVE SELECT(MIPB000) SYSMOD SOURCEID(XCB0000) .
SET BOUNDARY(CAITGT) . /* CA-XCOM for MVS r11 TARGET ZONE */
UCLIN.
REP DDDEF(CICSLOAD) .
DA(CICSSYS.V212.P9508.LOADLIB) /* CICS LOAD LIB */
SHR.
ENDUCL.
/*
Installing Unicenter CA-XCOM Data Transport for z/OS      3–11
```
Step 7. Unload the CICS Help and CSD Files

You need to perform this installation step only if you are installing the CICS interface of Unicenter CA-XCOM Data Transport for z/OS.

In the following SAMPJCL member, XCB0CICS, modify the indicated lines in the SYSUT2 DD statements to conform to your installation standards and submit the member.

```sql
//XCB0CICS JOB (ACCOUNT), 'COMPUTER ASSOCIATES'
/*-----------------------------------------------------------*/
/*                                                           */
/*  UNLOAD CA-XCOM for z/OS r11 CICS OPTION HELP & CSD FILES */
/*                                                           */
/*  COPYRIGHT (C) - COMPUTER ASSOCIATES INTERNATIONAL, INC.  */
/*                                                           */
/*-----------------------------------------------------------*/
//XCB0HELP EXEC PGM=IEBGENER
//SYSPRINT DD SYSSUT=* 
//SYSIN DD DUMMY
//SYSUT1 DD DSN=CAI.XCOMHELP,DISP=(OLD,KEEP), 
//      UNIT=(CART.,DEFER),LABEL=(14.,EXPDT=980000), 
//      VOL=(,RETAI, SER=XC0B00)
//*
//SYSUT2 DD DSN=XCOM.CICS.RVRMP.XCOMHELP  *MODIFY*
//      VOL=SER=??????,UNIT=SYSA,  *MODIFY*
//      DISP=(,CATLG,DELETE),SPACE=(TRK,(15,15),RLSE)
//*
//XCB0CSD EXEC PGM=IEBGENER
//SYSPRINT DD SYSSUT=* 
//SYSIN DD DUMMY
//SYSUT1 DD DSN=CAI.XCOMCSD,DISP=(OLD,KEEP), 
//      UNIT=(CART.,DEFER),LABEL=(15.,EXPDT=980000), 
//      VOL=SER=XC0B00
//*
//SYSUT2 DD DSN=XCOM.CICS.RVRMP.XCOMCSD  *MODIFY*
//      VOL=SER=??????,UNIT=SYSA,  *MODIFY*
//      DISP=(,CATLG,DELETE),SPACE=(TRK,(15,15),RLSE)
```
Step 8. Apply the Functional SYSMODs

The member XCB0APP in the SAMPJCL library executes the SMP function APPLY, which applies all the components (functional SYSMODs) of Unicenter CA-XCOM Data Transport for z/OS to the target libraries. SMP does not require the distribution libraries to be allocated during APPLY processing. For Japanese support, see the appendix “Installation for Japanese ISPF Panel Support.”

Edit the JCL in member XCB0APP to conform to your installation standards.

Submit the job and review the output to verify that the APPLY processing ran successfully. A return code of 4 from the linkage editor may be present when applying a new function and can be ignored. If APPLY completed with an SMP return code greater than 4, review the output, correct the problem, and resubmit.

Step 9. Set and Define the IBM Language Environment

Some of these steps are optional, depending upon your environment:

- Step 9a is optional.
- Step 9b is required.
Step 9. Set and Define the IBM Language Environment

Step 9a. Set the Language Environment Runtime Options (Optional)

Run this step to specify the amount of memory allocated for each transfer in the IBM runtime environment.

Your site may already have installed and configured IBM C on your system. However, you may need to run Step 9a because the defaults at your site may not be appropriate for Unicenter CA-XCOM Data Transport. Setting the IBM Language Runtime Options is important because IBM C uses them to determine how much memory to allocate and whether to allocate it above or below the line. If more storage is allocated than Unicenter CA-XCOM Data Transport uses, then the storage is just wasted and may lead to storage shortages.

First create an application-specific Runtime Options Module (CEEUOPT). A sample CEEUOPT is placed into the CINB0SAM(XCOMCOPT) library member during installation.

The sample, XCOMCOPT, is for the z/OS 1.5 environment. It contains the following statement:

STACK=(12K,12K,ANY,FREE,12K,12K)

The last two values for the parameter refer to a Down-Growing STACK, which is allocated only when an application has been built with XPLINK. Unicenter CA-XCOM Data Transport was not built with XPLINK.

Important! For more information about the application-specific Runtime Options Module (CEEUOPT) as it relates to your version of the IBM operating system, see your Language Environment customization guide for your system.

The member XCB0COPT in the SAMPJCL library links the user-created CEEUOPT module into the Unicenter CA-XCOM Data Transport routines. Modify the CEEUOPT library with the library name that contains the CEEUOPT module.
Step 9b. Define the Language Environment Runtime Libraries to the Target Zone (Required)

Run this step to link the Language Environment Runtime Library into the Unicenter CA-XCOM Data Transport base modules.

The member XCB0CRTN in the SAMPJCL library defines the Language Environment Runtime Libraries to the target zone. Modify the Language Environment Runtime Library names to conform to your site’s standards and submit the member.

Step 10. Unload the Unicenter CA-XCOM Data Transport for z/OS Certificate Sample Scripts

You need to perform this installation step only if you will be using the Secure Socket Layer (SSL) for secure TCP/IP transfers. This step unloads a file in .tar format that contains a number of sample scripts that can be used to generate sample certificates.

In the following SAMPJCL member, XCB0MKCT, modify the indicated lines as noted in the member. The sample contains a two-step process:

- The first step copies the file to DASD.
- The second step copies the data set into your HFS file system.

When the makecert_xx.tar tar file is moved to its desired location, you will need to untar the file. To do this, enter the following command:

```
tar -xovf makecert_xx.tar
```

where xx identifies the service pack.

For information about running the sample scripts, see the chapter “Generating SSL Certificates” in the Unicenter CA-XCOM Data Transport for z/OS Administrator Guide.
Step 10. Unload the Unicenter CA-XCOM Data Transport for z/OS Certificate Sample Scripts

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```
//XCB0MKCT JOB (ACCOUNT), 'COMPUTER ASSOCIATES'
// *-----------------------------------------------------------------------*
// * THIS JOB IS PART OF THE UNICENTER CA-XCOM                          *
// * INSTALL/MAINTENANCE PROCESS.                                       *
// * ITS FUNCTION IS TO UNLOAD THE FOLLOWING DATASET FROM THE            *
// * INSTALL/MAINTENANCE TAPE:  (XX IS THE SERVICE PACK)                *
// *-----------------------------------------------------------------------*
// * DATASET NAME          SIZE       DESCRIPTION                      *
// *-----------------------------------------------------------------------*
// * CAI.XCB0XX.MAKECERT.TAR  7M       SCRIPT FILES IN TAR FORMAT        *
// *-----------------------------------------------------------------------*
// * 1) TAILOR THE VALUES ON THE PROC TO YOUR SITE REQUIREMENTS         *
// * 2) STEP MKCTHFS COPIES THE FILE INTO YOUR HFS FILE SYSTEM,          *
// *     MODIFY THE PATH PARAMETERS TO MEET YOUR SITE                    *
// *     REQUIREMENTS.                                                  *
// *     -- OR -- REMOVE STEP MKCTHFS IF YOU DO NOT WANT TO COPY        *
// *     THE FILE TO YOUR HFS FILE SYSTEM.                              *
// *-----------------------------------------------------------------------*

//XCB0MKCT PROC CAI='CAI.',     /* COMMON DSN PREFIX
//             TAPE=CART,        /* NAME FOR TAPE DRIVE
//             TAPVOL=CAXXXX,      /* CA-XCOM INSTALL/MAINT VOLSER
//             UNIT=SYSDA,         /* DASD UNIT NAME
//             DASDVOL='??????',   /* DASD VOLSER
//             SP='00'             /* SERVICE PACK
// *-----------------------------------------------------------------------*

// MKCTDSK EXEC PGM=IEBGENER,REGION=1024K
// SYSPRINT DD SYSOUT=*   
// SYSUT1 DD DSN=CAI.XCB0.MAKECERT.TAR,   /* PEND
//             DISP=(OLD,KEEP),LABEL=(19,,EXPDT=98000),
//             UNIT=(&TAPE,,DEFER),VOL=SER=&TAPVOL
// SYSUT2 DD DSN=CAI.XCB0&SP..MAKECERT.TAR,   /* PEND
//             DISP=(NEW,CATLG,DELETE),      /* SEE NOTE 2 */
//             DCB=(DSORG=P5,RECFM=U,BLKSIZE=6144),
//             SPACE=(TRK,(10,5),RLSE),UNIT=&UNIT,VOL=SER=&DASDVOL
// *-----------------------------------------------------------------------*

// MKCTHFS EXEC PGM=IEBGENER,REGION=1024K
// SYSPRINT DD SYSOUT=*   
// SYSUT1 DD DISP=SHR,DSN=CAI.XCB0&SP..MAKECERT.TAR
// SYSUT2 DD PATHOPTS=(ORDWR,OTRUNC,OCREATE), /* SEE NOTE 2 */
//            PATHMODE=(SIRWXU,SIRWXG,SIROTH),
//            PATHDISP=(KEEP,DELETE),
//            PATH="/tmp/makecert_&SP..tar"
// SYSIN DD DUMMY
// *-----------------------------------------------------------------------*

//XCB0MKCT PEND
// *-----------------------------------------------------------------------*
// XCB0MKCT EXEC XCB0MKCT
```

---

3–16 Getting Started
Step 11. Execute CAIRIM to Install LMP

CAIRIM, the Resource Initialization Manager, is used to provide product licensing for Unicenter CA-XCOM Data Transport. CAIRIM is one of the CA Common Services for z/OS. CAIRIM prepares your operating system environment for Computer Associates z/OS products and components and executes them.

CAIRIM routines are grouped under CA MVS Dynamic Service Code S910. Review the CA Common Services for z/OS (CCS) documentation for further details about the features and associated utilities of CAIRIM.

Using CA LMP

Unicenter CA-XCOM Data Transport for z/OS requires CA LMP (License Management Program), one of the CA Common Services (CCS), to initialize correctly. CA LMP also provides a standardized and automated approach to the tracking of licensed software.

Examine the CA LMP Key Certificate you received with your Unicenter CA-XCOM Data Transport for z/OS installation or maintenance tape. The certificate contains the fields shown in the following table.

<table>
<thead>
<tr>
<th><strong>Fields</strong></th>
<th><strong>Descriptions</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>The trademarked or registered name of the Unicenter CA-XCOM Data Transport for z/OS licensed for the designated site and CPUs.</td>
</tr>
<tr>
<td>Product Code</td>
<td>A two-character code that corresponds to Unicenter CA-XCOM Data Transport for z/OS.</td>
</tr>
<tr>
<td>Supplement</td>
<td>The reference number of your license for Unicenter CA-XCOM Data Transport for z/OS, in the format \texttt{nnnnnn nnn}. This format differs slightly inside and outside North America, and in some cases may not be provided at all.</td>
</tr>
<tr>
<td>CPU ID</td>
<td>The code that identifies the specific CPU for which installation of your Unicenter CA-XCOM Data Transport for z/OS is valid.</td>
</tr>
</tbody>
</table>
Step 11. Execute CAIRIM to Install LMP

<table>
<thead>
<tr>
<th>Fields</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execution Key</td>
<td>An encrypted code required by CA LMP for Unicenter CA-XCOM Data Transport for z/OS initialization. During installation, it is referred to as the LMP Code.</td>
</tr>
<tr>
<td>Expiration Date</td>
<td>The date (\text{ddMONyy} as in 20OCT03) when your license for Unicenter CA-XCOM Data Transport for z/OS expires.</td>
</tr>
<tr>
<td>Technical Contact</td>
<td>The name of the technical contact at your site who is responsible for the installation and maintenance of the designated Unicenter CA-XCOM Data Transport for z/OS. This is the person to whom Computer Associates addresses all CA LMP correspondence.</td>
</tr>
<tr>
<td>MIS Director</td>
<td>The name of the Director of MIS, or the person who performs that function at the site. If the title, but not the individual’s name, is indicated on the Certificate, you should supply the actual name when correcting and verifying the Certificate.</td>
</tr>
<tr>
<td>CPU Location</td>
<td>The address of the building where the CPU is installed.</td>
</tr>
</tbody>
</table>

CA LMP is provided as an integral part of CAIRIM (Resource Initialization Manager), a component of CA Common Services. Once CAIRIM has been installed or maintained at the Service Level specified in the cover letter for this product release, CA LMP support is available for all CA LMP-supported software solutions.

The CA LMP execution key, provided on the Key Certificate, must be added to the CAIRIM parameters to ensure proper initialization of the CA software solution. To define a CA LMP execution key to the CAIRIM parameters, modify member KEYS in OPTLIB data set.
The parameter structure for member KEYS is presented below:

```
PROD(pp) DATE(ddmmmyy) CPU(tttt-mmmm/ssssss)
LMPCODE(kkkkkkkkkkkkkkkk)
```

where:

- **pp**: Required. The two-character product code. For any given CA LMP software solution, this code agrees with the product code already in use by the CAIRIM initialization parameters for earlier genlevels of Unicenter CA-XCOM Data Transport for z/OS.

- **ddmmmyy**: The CA LMP licensing agreement expiration date.

- **tttt-mmmm**: Required. The CPU type and model (for example: 3090-600) on which the CA LMP software solution is to run. If the CPU type or model require less than four characters, blank spaces are inserted for the unused characters.

- **ssssss**: Required. The serial number of the CPU on which the CA LMP software solution is to run.

- **kkkkkkkkkkkkk**: Required. The execution key needed to run the CA LMP software solution. This CA LMP execution key is provided on the Key Certificate shipped with each CA LMP software solution.

Below is an example of a control statement for the CA LMP execution software parameter. In this example, the CA LMP execution key value is invalid and provided as an example only.

```
PROD(XC) DATE(01JAN03) CPU(3090-600 /370623)
LMPCODE(52H2K061367ZRD6)
```

For a full description of the procedure for defining the CA LMP execution key to the CAIRIM parameters, see the **CA Common Services for z/OS Administrator Guide**.
Step 12. Define the Libraries and Install the TSO/ISPF Facility

This step of the installation process involves several substeps (12a to 12h), which are described below, along with pertinent background information.

Step 12a. Authorize the Load Library

The Unicenter CA-XCOM Data Transport load modules, user exits, and tables are contained in the Unicenter CA-XCOM Data Transport load library called CAI.CAILIB. This library should be APF authorized by specifying it in the IEAAPFxx member of SYS1.PARMLIB.

Note: If LNKAUTH=LNKLST is specified in the IEASYSxx member of SYS1.PARMLIB, the Unicenter CA-XCOM Data Transport load library name can be specified in the LNKLSTxx member, instead of the IEAAPFxx member. This is useful if you want the Unicenter CA-XCOM Data Transport library to be part of the system link list. In either case, changes are not active until the next IPL. For more information about load library authorization, see IBM’s MVS Initialization and Tuning manual.

Important! Unicenter CA-XCOM Data Transport modules, and the XCF (Coupling Facility) modules, should not be copied into an authorized library containing modules from other software packages, because that would make upgrading to new releases very difficult and module name conflicts could occur.
Step 12. Define the Libraries and Install the TSO/ISPF Facility

Using Unicenter CA-XCOM Data Transport for z/OS Without APF Authorization

Unicenter CA-XCOM Data Transport can operate without APF authorization of its load library. However, the following functions are disabled:

- TSO user notification
- Advantage CA-Roscoe user notification
- Interfaces to host system security packages (for example, IBM RACF or eTrust CA-ACF2 Security)
- Process SYSOUT Interface
- Indirect (store-and-forward) file transfers
- SMF logging
- XCF functionality
- PDSE program library transfers
Step 12. Define the Libraries and Install the TSO/ISPF Facility

Step 12b. Concatenate the TSO/ISPF Libraries

Concatenate the Unicenter CA-XCOM Data Transport TSO/ISPF libraries listed in the following table with the proper libraries for your installation.

<table>
<thead>
<tr>
<th>Library</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAI.CINB0SPL</td>
<td>Unicenter CA-XCOM Data Transport Menu Interface (TSO/ISPF) panels</td>
</tr>
<tr>
<td>CAI.CINB0SMML</td>
<td>Unicenter CA-XCOM Data Transport TSO/ISPF messages</td>
</tr>
<tr>
<td>CAI.CINB0SCM</td>
<td>CLISTs that invoke the ISPF dialogs</td>
</tr>
<tr>
<td>CAI.CAILIB</td>
<td>Unicenter CA-XCOM Data Transport load library is also required for the TSO/ISPF interface</td>
</tr>
<tr>
<td>CAI.CINB0STL</td>
<td>Unicenter CA-XCOM Data Transport ISPF table</td>
</tr>
</tbody>
</table>

Step 12c. Install the TSO/ISPF Facility

Version 4.2 or higher of ISPF must be installed to use the TSO/ISPF facility (menu interface) of Unicenter CA-XCOM Data Transport.

To install the TSO/ISPF dialog for Unicenter CA-XCOM Data Transport, libraries for Unicenter CA-XCOM Data Transport must be concatenated to the ISFPLIB, ISPMLIB, STEPLIB, ISPLLIB, ISPTLIB and SYSPROC DD statements in your TSO logon procedures. The following JCL shows how this is done. You need to supply the correct data set names on the lines indicated by the bold type in the JCL. If the Unicenter CA-XCOM Data Transport load library was not added to the link list, a STEPLIB must be added to the logon procedure.
Step 12. Define the Libraries and Install the TSO/ISPF Facility

When inserting Unicenter CA-XCOM Data Transport libraries into the TSO logon procedure, the library block size must be large enough to accommodate the Unicenter CA-XCOM Data Transport library block size. For example, if the Unicenter CA-XCOM Data Transport panel library, CAI.CINB0SPL, is concatenated last under the ISPPLIB DD statement, the block size of the other data sets concatenated under ISPPLIB must be equal to or greater than the block size of CAI.CINB0SPL. (This requirement can be circumvented by coding a DCB=BLKSIZE parameter to a value equal to the largest block size.)

**Important!** Be aware that the Unicenter CA-XCOM Data Transport SYSPROC is distributed in fixed-block format. Occasionally, users find that their existing SYSPROCs use variable-block format. The Unicenter CA-XCOM Data Transport SYSPROC and your other concatenated SYSPROCs must be defined as one or the other. There cannot be a combination of the two formats.
Step 12. Define the Libraries and Install the TSO/ISPF Facility

IBM TCP/IP Support

The following requirements apply to IBM TCP/IP support:

- The following libraries must be in the link list or the STEPLIB:

  DSN=CEE.SCEERUN

  (The library name may be different at your installation.)

  **Note:** DSN=CEE.SCEERUN2 is not needed for the CA-XCOM TSO/ISPF Facility. It is also not needed for CA-XCOM to do transfers.

- The following DD statement should be added to the TSO LOGON proc:

  //SYSTCPD DD DSN=TCPD.DESV.PROFILE(TCPDATA)

Allowing TYPE=EXECUTE Transfers of PDSE Program Libraries

To allow users to perform TYPE=EXECUTE transfers of PDSE program libraries, you must add XCOMJOB to the AUTHPGM and the AUTHTSF tables of IKJTSO00 module in SYS1.PARMLIB. For more information, see IBM's TSO/E Customization manual.

**Note:** The following DD statement should be added to the TSO LOGON proc:

  //XCOMPRNT DD TERM=TS,SYSOUT=Z
Step 12d. Customize the ISPF Dialogs

The ISPF Primary Option Menu (or any other ISPF panel) can be modified to include an option for calling the Unicenter CA-XCOM Data Transport Primary Option Menu (XCOMPRIM) by inserting the lines shown in bold in the following sample primary panel definition. Also, the XCOM62 CLIST supplied in the data set CAICINB0SCL can invoke the Unicenter CA-XCOM Data Transport TSO/ISPF dialog. For Japanese support, see the appendix “Installation for Japanese ISPF Panel Support.”

```plaintext
...+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8
%------------------------ISPF/PDF PRIMARY OPTION MENU------------------------
%OPTION   ===_ZCMD                                                             +
%                                                               +USERID   -&ZUSER
% 0   +ISPF PARM5 -Specify terminal and user parameters +TIME     -&ZTIME
% 1   +BROWSE   -Display source data or output listings +TERMINAL -&ZTERM
% 2   +EDIT     -Create or change source data +PFKEYS   -&ZKEYS
% 3   +UTILITIES -Perform utility functions
% 4   +FOREGROUND -Invoke language processors in foreground
% 5   +BATCH    -Submit job for language processing
% 6   +COMMAND  -Enter TSO command or CLIST
% 7   +DIALOG TEST -Perform dialog testing
% 8   +LM UTILITIES -Perform library administrator utility functions
% 9   +IBM PRODUCTS -Additional IBM program development products
% XC +XCOM 6.2 -Multiplatform file transfer application
% C +CHANGES  -Display summary of changes for this release
% T +TUTORIAL -Display information about ISPF/PDF
% X +EXIT    -Terminate ISPF using log and list defaults
% +Enter %END+ command to terminate ISPF.
% )INIT
   .HELP=ISR00003
   &ZPRIM=YES     /*ALWAYS A PRIMARY OPTION MENU*/
   &ZHTOP=ISR00003 /*TUTORIAL TABLE OF CONTENTS*/
   &ZHINDEX=ISR91000 /*TUTORIALINDEX-1STPAGE*/
   VPUT (ZHTOP,ZHINDEX) PROFILE
)PROC
&ZQ=&Z
  IF (&ZCMD='')
    &ZQ=TRUNC(&ZCMD,',')
  IF(&ZQ='')
    .MSG=ISR0000
&ZSEL=TRANS(&ZQ
  0.'PANEL(ISPOPTA)
  1.'PGM(ISRBRO)PARM(ISRBROB1)
  2.'PGM(ISREDIT)PARM(P.ISREDMB1)
  3.'PANEL(ISRUTIL)
  4.'PANEL(ISRFPF)
  5.'PGM(ISRJ1)PARM(ISRJPA)NOCHECK'
  6.'PGM(ISRPTC)'
  7.'PGM(ISRYXDR) NOCHECK'
  8.'PANEL(ISRLPRIM)
  9.'PANEL(ISRD1S)'
C.'PGM(ISPTUTOR)PARM(ISR00005)
```

Installing Unicenter CA-XCOM Data Transport for z/OS  3–25
Step 12. Define the Libraries and Install the TSO/ISPF Facility

```
T, 'PGM(ISPTUTOR)PARM(ISR00000)'  
X, 'PANEL(XCOMPRIM)NEWAPPL(XCOM)'  
  '*','  
X, 'EXIT'  
&ZTRAIL=.TRAIL  
)END
```

**Step 12e. Allocate the Request Queue**

This step allocates and initializes the Unicenter CA-XCOM Data Transport request queue. The request queue contains one record for each locally initiated transfer request. It is also used to store checkpoint/restart information for each remotely initiated transfer request. Ensure that the number of records in the file defined by the RECORDS parameter is large enough to accommodate all of the transfer requests, which may be queued at any one time. This includes locally initiated pending and active queued file transfers and remotely initiated requests, which contain restart information.

The cluster name assigned to this VSAM RRDS file should also be assigned to the XCOMRRDS DD statement in the Unicenter CA-XCOM Data Transport server JCL.

CAI.CINB0SAM(DEFRRDS) on the distribution tape provides sample JCL for this step (see the appendix “Sample Files” in the Unicenter CA-XCOM Data Transport for z/OS User Guide). Edit this file, specifically the VOL, RECORDS, and NAME statements, to comply with your installation requirements. Note that this sample JCL indicates a maximum file size of 1500 records.
Step 12. Define the Libraries and Install the TSO/ISPF Facility

Step 12f. Define the History File

This step creates the Unicenter CA-XCOM Data Transport history file and its alternate indices and paths. In creating alternate indices, you must use the primary cluster to limit the size of the history data. This process creates a secondary allocation space for the alternate indices. These JCL DD statements are associated with the Unicenter CA-XCOM Data Transport history file:

- XCOMHIST
- XCOMREQ
- XCOMUSER
- XCOMIDNT
- XCOMRECP

CAlcINB0SAM(DEFHIST) provides sample JCL for this step (see the appendix “Sample Files” in the Unicenter CA-XCOM Data Transport for z/OS User Guide). Modify this JCL, specifically the NAME and space-related statements, to comply with your installation requirements.
Step 12. Define the Libraries and Install the TSO/ISPF Facility

Step 12g. Define the Optional Sequential Files

At the user’s option, two sequential data sets, XCOMGLOB and XCOMREST (described in the table below), can be used by the batch interface for non-queued file transfers:

<table>
<thead>
<tr>
<th>Data set</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>XCOMGLOB</td>
<td>XCOMGLOB is a global data set used by all non-queued transfers. It contains a number to be assigned to the next transfer request. If this data set is not used, Unicenter CA-XCOM Data Transport assigns request number 2000 to all non-queued transfers.</td>
</tr>
<tr>
<td>XCOMREST</td>
<td>The XCOMREST data sets are unique for each batch job. They are used to save checkpoint information for non-queued transfers.</td>
</tr>
</tbody>
</table>

The member DEFQSAM in CAI.CINB0SAM provides an example of the definition and initialization of these data sets (see the appendix “Sample Files” in the Unicenter CA-XCOM Data Transport for z/OS User Guide).

Step 12h. Reassemble the eTrust CA-ACF2 Security Module (eTrust CA-ACF2 Security Users Only)

All Unicenter CA-XCOM Data Transport installations using eTrust CA-ACF2 Security as their security interface must reassemble the eTrust CA-ACF2 Security module of Unicenter CA-XCOM Data Transport.

**Important!** To enable eTrust CA-ACF2 Security with XCOM, set SECURITY=ACF2 in the XCOMDFLT table. For more information, see the chapters “Unicenter CA-XCOM Data Transport Configuration Parameters” and “Security Considerations” in the Unicenter CA-XCOM Data Transport for z/OS Administrator Guide.
Step 12. Define the Libraries and Install the TSO/ISPF Facility

Member ASMACF2U in CAI.CINB0SAM provides an example of definition and initialization of these files (see the appendix “Sample Files” in the *Unicenter CA-XCOM Data Transport for z/OS User Guide*).

**Note on Other Libraries Loaded from the Tape**

The following libraries are also loaded from the distribution tape:

<table>
<thead>
<tr>
<th>Library</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAI.CINB0MAC</td>
<td>Contains the macros used for creating the Default Options Table. Also includes Assembler language DSECTs used by Unicenter CA-XCOM Data Transport user exits.</td>
</tr>
<tr>
<td>CAI.CINB0SAM</td>
<td>Contains the sample JCL used to initialize Unicenter CA-XCOM Data Transport data sets, samples of Unicenter CA-XCOM Data Transport user exits, the Unicenter CA-XCOM Data Transport start-up procedure, and examples of XCOMJOB JCL.</td>
</tr>
<tr>
<td></td>
<td>It also includes a sample COBOL program, which invokes Unicenter CA-XCOM Data Transport as a subroutine, sample CICS interface programs, sample TCT entries for CICS interfaces, and others.</td>
</tr>
<tr>
<td></td>
<td>Member @INDEX of this library contains an up-to-date list of members in the SAMPLIB library and a brief description of each member’s purpose.</td>
</tr>
<tr>
<td>CAI.CINB0CTL</td>
<td>A sample Unicenter CA-XCOM Data Transport control library is provided with Unicenter CA-XCOM Data Transport for user reference. It contains destination and list definitions for z/OS to UNIX, MVS to PC, MVS to AS/400, and so on.</td>
</tr>
</tbody>
</table>
Step 13. Configure Unicenter CA-XCOM Data Transport for z/OS

This step of the installation process involves performing multiple substeps, as follows:

1. Define Unicenter CA-XCOM Data Transport to VTAM (as a VTAM application).
2. Define the logon mode table entries.
3. Configure and assemble the Unicenter CA-XCOM Data Transport Default Options Table.
4. Assemble and link edit Unicenter CA-XCOM Data Transport User Exits (optional).
5. Define the Unicenter CA-XCOM Data Transport destinations (optional).
6. Customize the code page conversion tables (optional).
7. Define the Unicenter CA-XCOM Data Transport system administrator table (optional).
8. Define the Unicenter CA-XCOM Data Transport server in a stand-alone or Coupling Facility environment.
9. Assemble and link edit the JES-dependent module (based on JES release).
11. Verify the installation.

The installation tasks listed above need to be performed at this point of the installation process. For detailed information about them, see the chapter “Configuring and Customizing Unicenter CA-XCOM Data Transport for z/OS” in the Unicenter CA-XCOM Data Transport for z/OS Administrator Guide.
Step 14. Install and Configure the CICS Interface

This step needs to be performed only if Unicenter CA-XCOM Data Transport for z/OS is being installed with the CICS interface.

About Installing the CICS Interface

The Unicenter CA-XCOM Data Transport CICS interface is easy to install. No authorized libraries are required. While gaining full Unicenter CA-XCOM Data Transport CICS functionality requires bringing CICS down and then up, it is possible to run the product without bringing CICS down.

Installing the Unicenter CA-XCOM Data Transport CICS interface requires both of the following:

- Creating the VSAM files that Unicenter CA-XCOM Data Transport CICS requires
- Updating CICS tables with Unicenter CA-XCOM Data Transport CICS entries.

These tasks are described in Steps 14a and 14b, respectively.

Step 14a. Create XCOMHELP VSAM File

All data that appears on the HELP panels is stored in the CAI.XCOMHELP VSAM file, which was unloaded at installation Step 7.

The JCL to define the XCOMHELP file is in the CAI.CIPB0SAM library member DEFHELP (a copy is also provided in the appendix “Sample Files” in the Unicenter CA-XCOM Data Transport for z/OS User Guide).
Step 14. Install and Configure the CICS Interface

Modify this JCL to conform to your installation parameters.

```bash
//JOBNAME  JOB (ACCOUNTING), 'XCOMHELP DEFINE',
//             CLASS=A,MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=TSOID
//DEFHELP  EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//DD1      DD DSN=XCOM.CICS.RVRMP.XCOMHELP,DISP=SHR
//SYSIN    DD *
/* 4. DELETE AND REDEFINE THE XCOMCICS HELP FILE */
/*
DELETE XCOM.XCOMHELP.VS PURGE CLUSTER
DEFINE CL ( NAME(XCOM.XCOMHELP.VS) -
    REC( 4000 1000 ) -
    RECSZ( 99 99 ) -
    FREESPACE( 0 0 ) -
    KEYS( 16 0 ) -
    VOLUME(??????) -
    SHR( 2 ))-
    DATA ( NAME(XCOM.XCOMHELP.VS.DATA) -
        UNIQUE ) -
    INDEX ( NAME(XCOM.XCOMHELP.VS.INDEX) -
        UNIQUE )
REPRO IFILE(D D  D) ODS(XCOM.XCOMHELP.VS)
/* */
//
```

The above JCL performs the following three logical functions:

- Deletes the old XCOMHELP data set, if it exists
- Defines the XCOMHELP VSAM cluster
- Copies the XCOMHELP data to the VSAM cluster

**Step 14b. Create XCOMDFLT VSAM File**

The XCOMDFLT VSAM file allows Unicenter CA-XCOM Data Transport CICS to save the information that you enter on Unicenter CA-XCOM Data Transport screens, so it is displayed on the screen the next time you are engaged in a Unicenter CA-XCOM Data Transport transaction.

The JCL needed to define the XCOMDFLT file is located in the sample library member DEFDFLT, which is listed following (a copy is provided also in the Appendix "Sample Files," in the Unicenter CA-XCOM Data Transport for z/OS User Guide).
Modify this JCL to conform to your installation parameters.

```
//JOBNAME  JOB (ACCOUNTING),'XCOM DFLT DEFINE'.
//             CLASS=A,MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=TSO
//XCOMCICI EXEC PGM=XCICCICI
//STPLIB   DD  DSN=CAI.CAILIB,DISP=SHR
//XCOMOUT DD
DSN=&&TEMP,DISP=(NEW,PASS).SPACE=(TRK,(1)).UNIT=SYSDA
//XCOMIN DD *
SERVER-APPLID=XCOMAPPL
OPER-TRAN=XCOM
//IDCAMS EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=* 
//DD1 DD DSN=&&TEMP,DISP=(OLD,DELETE)
//SYSIN DD *
/*  4. DELETE AND REDEFINE THE XCOMCICS DEFAULT FILE          */
/*                                                            */
DELETE XCOM.XCOMDFLT.VS PURGE CLUSTER
DEFINE CL ( NAME(XCOM.XCOMDFLT.VS) -
  IXD -
  REC( 1000 ) -
  RECSZ( 80 1500 ) -
  VOLUME(???????) -
  FREESPACE( 0 0 ) -
  KEYS( 8 0 ) -
  SHR( 2 ))-
DATA ( NAME(XCOM.XCOMDFLT.VS.DATA) -
  UNIQUE ) -
INDEX ( NAME(XCOM.XCOMDFLT.VS.INDEX) -
  UNIQUE )
REPRO IFILE(DD1) ODS(XCOM.XCOMDFLT.VS) REPLACE
//
```

Installing Unicenter CA-XCOM Data Transport for z/OS 3–33
Step 14. Install and Configure the CICS Interface

The first JCL step creates a temporary file, which the system copies to the VSAM cluster in the second step. There are two parameters that you can enter as input to the XCICCI installation program, SERVER-APPLID and OPER-TRAN:

- SERVER-APPLID defines the default Unicenter CA-XCOM Data Transport server with which CICS communicates. Although Unicenter CA-XCOM Data Transport CICS communicates with many Unicenter CA-XCOM Data Transport servers, the SERVER-APPLID is the APPLID that Unicenter CA-XCOM Data Transport displays on the Primary Menu (XCICPRIM) screen (see the chapter “The Menu Interface” in the Unicenter CA-XCOM Data Transport for z/OS User Guide) when you log on to Unicenter CA-XCOM Data Transport for the first time. You can change that value on the XCICPRIM screen and Unicenter CA-XCOM Data Transport reflects the changes on your default parameter profile only. The default for this parameter is SERVER-APPLID= XCOMAPPL.

- OPER-TRAN defines the Unicenter CA-XCOM Data Transport CICS transaction that gives the equivalent Unicenter CA-XCOM Data Transport security access to TSO OPER capability. For more information about this parameter, see the chapter “Security Considerations” in the Unicenter CA-XCOM Data Transport for z/OS Administrator Guide. The parameter’s default is OPER-TRAN=XCOM.

The second step executes the IDCAMS utility and logically performs these three functions:

- Deletes the old XCOMDFLT data set if it exists.
- Defines the XCOMDFLT VSAM cluster.
- Copies the temporary file created in Step 1 to the VSAM cluster.

**Note:** To change the global default data without deleting user profiles, you can run this step without deleting and defining the XCOMDFLT file to simply update the global default record on the file.
About Configuring the CICS Interface

Unicenter CA-XCOM Data Transport CICS requires only table updates within CICS. Unicenter CA-XCOM Data Transport CICS requires no user modifications of any sort. The following tables require modification to run Unicenter CA-XCOM Data Transport CICS:

- FCT to add XCOMDFT and XCOMHLP files
- PCT to add Unicenter CA-XCOM Data Transport transactions
- PPT to add Unicenter CA-XCOM Data Transport programs
- TCT to add Unicenter CA-XCOM Data Transport servers

You can update the FCT, PCT, PPT, and TCT through macro definitions, online CEDA, or through the batch DFHCSDUP utility.

The tasks relating to the configuration of the Unicenter CA-XCOM Data Transport CICS interface are described in Steps 14c, 14d, 14e, 14f, and 14g.

Step 14c. Copy from CSD File

The Unicenter CA-XCOM Data Transport for z/OS installation tape contains a copy of a sample CSD. Unicenter CA-XCOM Data Transport unloads this file during the installation procedure. You can copy the entries from the default file provided into the CSD file for your CICS region. The sample library member COPYCSD is provided to perform this function.

You can skip this section if you want to use the macro assemblies to update the CICS tables or if you want to use the online CEDA transaction.
Step 14. Install and Configure the CICS Interface

To copy the Unicenter CA-XCOM Data Transport sample entries to the CICS CSD, you must:

- Define a temporary CSD file.
- Copy the Unicenter CA-XCOM Data Transport sample CSD entries from the flat file to the temporary VSAM file.
- Use the DFHCSDUP utility to copy the files from the temporary CSD file to your CICS CSD file.

Optionally, you can update the CICS initialization list to include the Unicenter CA-XCOM Data Transport CSD group. You can perform this update with the DFHCSDUP utility or through the online CEDA transaction.

You should modify the JCL to conform to installation parameters. In particular, you should change the following parameters, if necessary:

- NAME on the Define cluster
- VOLUMES on the Define cluster
- ODS on the Repro
- Data set name on the Delete cluster
Step 14. Install and Configure the CICS Interface

The final step of the JCL (shown here and in the appendix “Sample Files” in the *Unicenter CA-XCOM Data Transport for z/OS User Guide*) deletes the temporary CSD cluster created in Step 1 of the procedure.

```
//JOBNAME JOB (ACCOUNTING), 'COPY XCOMCSD'.
//CLASS=A,MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=TSOID

//***************************************************************
//* CREATE XCOM TEMPORARY CSD FILE
//***************************************************************
//DEFCSD EXEC PGM=IDCAMS
//INSTCSD DD DSN=XCOM.CICS.RVRMP.XCOMCSD,DISP=SHR
//SYSPRINT DD SYSOUT=* 
//SYSIN DD SYSOUT=* 
/* DEFINE THE CSD (CICS SYSTEM DEFINITION) */
/*                                                            */
DEFINE CL ( NAME(XCOM.TEMP.DFHCSD) -
           IXD -
           RECSZ( 100 500 ) -
           FREESPACE( 0 0 ) -
           SHR( 2 ) -
           VOLUMES( ?????? ) ) -
DATA ( NAME(XCOM.TEMP.DFHCSD.DATA) -
       UNIQUE -
       KEYS( 22 0 ) ) -
INDEX ( NAME(XCOM.TEMP.DFHCSD.INDEX) -
        UNIQUE )
REPRO IFILE(INSTCSD) ODS(XCOM.TEMP.DFHCSD)REPLACE
//***************************************************************
//* COPY XCOM CSD ENTRIED TO YOUR CSD FILE
//***************************************************************
//COPYCSD EXEC PGM=DFHCSDUP,COND=(8,LT,DEFCSD)
//STEPLIB DD DSN=YOUR.CICS.LOADLIB,DISP=SHR          ===> UPDATE
//DFHCSD DD DSN=YOUR.CICS.CSD.FILE,DISP=SHR          ===> UPDATE
//XCOMCSD DD DSN=XCOM.CICS.TEMP.DFHCSD,DISP=SHR      ===> UPDATE
//SYSIN DD SYSOUT=* 
//SYSIN DD *
/* *----------------------------------------* */
/* * COPY XCOM CSD GROUP TO YOUR CSD FILE   */
/* *----------------------------------------* */
COPY GROUP(XCOMGRP) TO(XCOMGRP) REPLACE FROMCSD(XCOMCSD)
/* *----------------------------------------* */
/* * ADD XCOMCSD GROUP TO YOUR STARTUP LIST */
/* * THIS CAN BE DONE THROUGH JCL OR THROUGH*/
/* * THE ONLINE CEDA TRANSACTION */
/* *----------------------------------------* */
ADD GROUP(XCOMCSD) LIST(????????)
//***************************************************************
//* DELETE XCOM TEMPORARY CSD FILE
//***************************************************************
```
Step 14. Install and Configure the CICS Interface

//DELCSD EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=* 
//SYSIN DD *
/* DELETE TEMPORARY CSD */
DELETE XCOM.TEMP.DFHCSD PURGE CLUSTER

Step 14d. Update FCT

The sample library member XCOMFCT (shown following and in the appendix “Sample Files” in the Unicenter CA-XCOM Data Transport for z/OS User Guide) contains the macro definitions necessary to add the Unicenter CA-XCOM Data Transport files XCOMDFT and XCOMHLP to the FCT. You must change the two definitions if these conditions apply:

- LSR support is desired for this file.
- LSRPOOL=NONE is defined in the sample provided for both data sets.

If you hardcode the data set names in the FCT, include the DSN and DISP parameters in the definition. They are commented out in the sample.

For the definitions to take effect, copy member XCOMFCT into your FCT definition, assemble the FCT, and restart CICS. Another way to update FCT is to use online CEDA or the batch DFHCSDUP utility. Member DEFFCT is a sample for using the DFHCSDUP utility.

******************************************************************
* XCOM CICS FCT ENTRIES:                                    *
* XCOMHLP - CONTAINS DATA FOR HELP SCREENS                    *
* XCOMDFT - CONTAINS DEFAULT DATA FOR XCOM CICS USERS        *
******************************************************************

DFHFCT TYPE=DATA SET
DATA SET=XCOMHLP,
ACCMETH=VSAM,
BUFND=3,
BUFNI=3,
FILSTAT=(ENABLED,OPENED),
LSRPOOL=NONE, ======> UPDATE IF NECESSARY
RECFORM=(VARIABLE,BLOCKED),
SERVREQ=(READ,BROWSE),

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Step 14. Install and Configure the CICS Interface

STRNO=2
DSN=XCOM.XCOMHELP.VS, ======> OPTIONAL PARAMETER
DISP=SHR, ======> OPTIONAL PARAMETER

DFHFCT TYPE=DATA SET
DATA SET=XCOMDFT, X
ACCMETH=VSAM, X
BUFND=3, X
BUFNI=3, X
FILSTAT=(ENABLED,OPENED), X
LSRPOLL=NONE, ======> UPDATE IF NECESSARY X
RECFORM=(VARIABLE,BLOCKED), X
SERVREQ=(READ,ADD,UPDATE,BROWSE,DELETE), X
STRNO=2
** DSN=XCOM.XCOMDFLT.VS, ======> OPTIONAL PARAMETER
** DISP=SHR, ======> OPTIONAL PARAMETER
*

Step 14e. Update PCT

The sample library member XCOMPCT (shown following and in the appendix “Sample Files” in the Unicenter CA-XCOM Data Transport for z/OS User Guide) contains the macro definitions necessary to add the XCOM PCT entries. If you update the CSD file through the DFHCSDUP utility described earlier, you can bypass this step. If you wish to use the online CEDA transaction, you can use the XCOMPCT entries as an example when issuing the CEDA command.

Note: The DTIMOUT parameter specifies the amount of time that a transaction waits for a queued or inactive session. The source assumes a wait of 30 seconds for Unicenter CA-XCOM Data Transport to allocate a session to the transaction. You should copy member XCOMPCT into your PCT definition, assemble the PCT, and restart CICS for the definitions to take effect.
Step 14. Install and Configure the CICS Interface

* ******************************************************************************
* *
* XCOM CICS PCT ENTRIES:
* * XCOM     - TRANSID FOR ALL XCOM FUNCTIONS
* * XCON     - OPTIONAL TRANSID FOR ALL XCOM FUNCTIONS
* * XNTF     - TRANSID TO HANDLE ALL CICS NOTIFIES
* *
* ******************************************************************************

* DFHPCT TYPE=ENTRY,
  TRANSID=XCOM,
  PROGRAM=XCICPRIM,
  DTIMOUT=30,
  SPURGE=YES,
  TPURGE=YES,
  TRANSEC=01,
  TRMPRTY=100,
  TWASIZE=0
* *
* DFHPCT TYPE=ENTRY,
  TRANSID=XCON,
  PROGRAM=XCICPRIM,
  DTIMOUT=30,
  SPURGE=YES,
  TPURGE=YES,
  TRANSEC=01,
  TRMPRTY=100,
  TWASIZE=0
* *
* DFHPCT TYPE=ENTRY,
  TRANSID=XNTF,
  PROGRAM=XCICNTFY,
  DTIMOUT=30,
  SPURGE=YES,
  TPURGE=YES,
  TRANSEC=01,
  TRMPRTY=100,
  TWASIZE=0
* *
Step 14f. Update PPT

The sample library member XCOMPPT (shown following and in the appendix “Sample Files” in the Unicenter CA-XCOM Data Transport for z/OS User Guide) contains the macro definitions necessary to add the XCOMPPT entries. If you update the CSD file through the DFHCSDUP utility described earlier, you can bypass this step. If you wish to use the online CEDA transaction, you can use the XCOMPCT entries as an example when issuing the CEDA command. Copy member XCOMPPT into your PPT definition, assemble the PPT, and restart CICS for the definitions to take effect.

*****************************************************************
*                                                               *
*     XCOM CICS PPT ENTRIES:                                    *
*                                                               *
*****************************************************************

* XCOM CICS MAPS

<table>
<thead>
<tr>
<th>Type</th>
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<tr>
<td>DFHPPT</td>
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<td>DFHPPT</td>
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<td>XCMSRPT</td>
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<td>XCMMPRM</td>
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* XCOM CICS PROGRAMS

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<tr>
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</tr>
<tr>
<td>DFHPPT</td>
<td>XCICSCHL</td>
<td>ASSEMBLER</td>
</tr>
</tbody>
</table>
Step 14. Install and Configure the CICS Interface

DFHPPT TYPE=ENTRY, PROGRAM=XCICCAPI, PGMLANG=ASSEMBLER
DFHPPT TYPE=ENTRY, PROGRAM=XCICNTFY, PGMLANG=ASSEMBLER

Step 14g. Update TCT

The sample library member XCOMTCT (shown following and in the appendix “Sample Files” in the *Unicenter CA-XCOM Data Transport for z/OS User Guide*) contains the macro definitions necessary to add the Unicenter CA-XCOM Data Transport TCT entries. If you update the CSD file through the DFHCSUP utility described earlier, you can bypass this step. If you want to use the online CEDA transaction, you can use the XCOMTCT entries as an example when issuing the CEDA command.

You may want to change the following parameters before assembling the TCT:

- **NETNAME** to point to the Unicenter CA-XCOM Data Transport server
- **SYSIDNT** to point to any valid TermID
- **MODENAM** to point to a valid Unicenter CA-XCOM Data Transport mode name

You can add as many Unicenter CA-XCOM Data Transport TCT entries as you wish. Normally, you define one TCT entry for each Unicenter CA-XCOM Data Transport server with which you want to communicate. For example, you can define TCT entries for the New York Production Unicenter CA-XCOM Data Transport, the New York VM Unicenter CA-XCOM Data Transport, the Chicago Unicenter CA-XCOM Data Transport, the Tokyo Unicenter CA-XCOM Data Transport, and so on.
Step 14. Install and Configure the CICS Interface

For the definitions to take effect, you should copy member XCOMTCT into your TCT definition, assemble the TCT, and restart CICS.

```
* XCOM CICS TCT ENTRIES:
* A TCT ENTRY CAN BE BUILD FOR EACH XCOM ADDRESS SPACE
* THAT CICS COMMUNICATES WITH
*
* DFHTCT TYPE=SYSTEM,        X
  ACCMETH=VTAM,              X
  NETNAME=XCOMAPPL,  ===> POINTS TO VTAM APPLID FOR XCOM X
  MODENAM=XCOMMODE,  ===> POINTS TO MODENAME FOR XCOM    X
  SYSIDNT=XCM1,      ===> USE ANY VALID NAME HERE        X
  FEATURE=SINGLE,                             X
  BUFFER=1024,                               X
  RUSIZE=1024,                               X
  TRMSTAT=TRANSCEIVE
```

CICS JCL Updates

You must ensure that the Unicenter CA-XCOM Data Transport CICS load modules are available. You can accomplish this in one of two ways:

- Add CAI.CAILIB to the DFHRPL concatenation.
- Move the modules in CAI.CAILIB into a library already in the DFHRPL concatenation.

You must add the Unicenter CA-XCOM Data Transport CICS XCOMDFT and XCOMHLP files to the CICS JCL if the files are defined without the DSN and DISP parameters in their DFHFCT macro definition statements. Remember that the DFHFCT macro definitions provided on the installation tape do not contain the DSN= and DISP= parameters.
Step 15. Accept the Product Components

After you have thoroughly tested Unicenter CA-XCOM Data Transport for z/OS, you must accept the components. This is accomplished by executing the SAMPJCL member XCB0ACC, as the result of which all the components (functional SYSMODs) of Unicenter CA-XCOM Data Transport for z/OS are placed in (or accepted to) the distribution libraries. For Japanese support, see the appendix “Installation for Japanese ISPF Panel Support.”

Before executing XCB0ACC, edit the JCL to conform to your installation standards. Review and edit the SMP SELECT control statement as described in the sample JCL.

Submit the job and review the output to verify that the ACCEPT processing ran successfully. If ACCEPT completed with an SMP return code greater than 4, view the output, correct the problem, and resubmit the job.

What’s Next

For instructions about customizing and configuring Unicenter CA-XCOM Data Transport for your site, see Configuring and Customizing in the Unicenter CA-XCOM Data Transport for z/OS Administrator Guide.

For more information about using all the features of Unicenter CA-XCOM Data Transport, see the Unicenter CA-XCOM Data Transport for z/OS User Guide.
Chapter 4  Migrating to r11

Unicenter CA-XCOM Data Transport r11 is compatible with all other currently supported versions of the product. This chapter contains additional information that is useful during the migration from Version 3.1 to r11.

**Installation Considerations**

We recommend that your site use a different CSI and zones for installation of Unicenter CA-XCOM Data Transport r11. Version 3.1 and r11 cannot co-exist in the same CSI even though the module names are the same for most of the modules. The r11 functions (FMIDs) include deletes for the Version 3.1 functions, so with both versions in the same CSI, it would not be possible to apply maintenance to Version 3.1.
Using IBM/C

Unicenter CA-XCOM Data Transport r11 uses IBM/C. This affects the installation if TCP/IP support is installed.

Step 9 sets up and defines the user options for Unicenter CA-XCOM Data Transport for the IBM/C Language Environment. Setting the IBM Language Runtime Options is important because IBM C uses them to determine how much memory to allocate and whether to allocate it above or below the line. If more storage is allocated than Unicenter CA-XCOM Data Transport uses, then the storage is wasted and can lead to storage abends. Modifying these user options does not affect the IBM language environment settings for any of your other products.

- Step 9a is optional, but strongly recommended. You may need to run Step 9a because the defaults at your site may cause IBM/C to allocate more memory than Unicenter CA-XCOM Data Transport requires. This can lead to storage abends after only a few transfers have been completed.
- Step 9b is required for all installations.

Default Options Table

There are new parameters for the Unicenter CA-XCOM Data Transport default options table for r11. Be sure to customize and assemble the r11 version of this table.
XCOMRRDS

A new RRDS must be created for r11. With r11, the use of the IBM LSR (Local Shared Resources) for the XCOMRRDS is supported. Use of LSR for the RRDS is strictly optional (see the following note). Using this facility may increase performance when queuing and processing transfer requests. This feature is activated by making modifications to the Unicenter CA-XCOM Data Transport server JCL. The IBM BLSR region must also be started.

If you are using LSR for the XCOMRRDS, it is important to consider how to configure the DEFERW parameter. This parameter indicates whether VSAM deferred write (DFR) is to be used for the XCOMRRDS. Setting this parameter to NO causes data to be written to disk, ensuring that transfer information is not lost if an abnormal termination occurs. However, setting this parameter to NO decreases performance, because data is written to disk instead of to memory. Setting DEFERW to YES improves performance, but if an abnormal termination occurs with this parameter set to YES, data that is written to memory is lost because it is not written out to the XCOMRRDS data set.

Note: LSR is recommended only for installations with very high volumes of scheduled transfers that are being run concurrently. For more information, see the chapter “Configuring and Customizing Unicenter CA-XCOM Data Transport for z/OS” in the Unicenter CA-XCOM Data Transport for z/OS Administrator Guide.

History File

A new history file must also be defined for r11. A new RRDS and history file should be created for r11, because of the possibility of abends when viewing a Version 3.1 history file from r11.
Configuration

There is a Server Storage Usage Worksheet for r11 available on the Unicenter CA-XCOM Data Transport web pages for the z/OS platform at http://ca.com/supportconnect. Filling out this worksheet allows you to calculate the approximate storage usage required for Unicenter CA-XCOM Data Transport r11.
Appendix A

Installation for Japanese ISPF Panel Support

Unicenter CA-XCOM Data Transport distributes the ISPF Panels in Japanese with a separate SYSMOD, CINB00J. The following shows how to allocate the target and distribution libraries necessary to receive, apply, and accept this SYSMOD. These following steps should be done in addition to the steps as documented in the chapter “Installing Unicenter CA-XCOM Data Transport for z/OS.”

Allocate Target and Distribution Libraries for the Components of SYSMOD CINB00J

The member XCB0ALCJ allocates the target and distribution libraries required for the components of SYSMOD CINB00J.

Edit this member to conform to your installation standards, submit the job and review the output.
Install the SMP Procedure for SMP/E Users

The member CAIXCB0 (which was modified in Step 4 in the chapter “Installing Unicenter CA-XCOM Data Transport for z/OS”) requires some additional changes for the ISPF Japanese Panels. Under XCOM Target Libraries, uncomment the following lines:

```
//*CINB0SPJ DD DSN=&CAI.CINB0SPJ,DISP=SHR CINB00J FMID
//*CINB0SCJ DD DSN=&CAI.CINB0SCJ,DISP=SHR CINB00J FMID
```

Under XCOM Distribution Libraries, uncomment the following lines:

```
//*CINB0MLJ DD DSN=&CAI.CINB0MLJ,DISP=SHR CA-XCOM JAPANESE MACLIB
```

Receive SYSMOD CINB00J

The member XCB0RECJ in the SAMPJCL library applies the RECEIVE function to Unicenter CA-XCOM Data Transport for z/OS for SYSMOD CINB00J.

Edit this member to conform to your installation standards and submit the job and review the output to verify that the RECEIVE processing ran successfully. If RECEIVE completed with an SMP return code greater than 4, review the output, correct the problem and resubmit.
Apply SYSMOD CINB00J

The member XCB0APPJ in the SAMPJCL library executes the SMP function, APPLY, which will apply the components of SYSMOD CINB00J to the target libraries. SMP does not require the distribution libraries to be allocated during APPLY processing.

Edit this member to conform to your installation standards and submit the job and review the output to verify that the APPLY processing ran successfully. A return code of 4 from the linkage editor may be present when applying a new function and can be ignored. If APPLY completed with an SMP return code greater than 4, review the output, correct the problem and resubmit.

Customize the ISPF Dialogs

The CINB00J target libraries need to be added to your ISPF proc:

```
//ISPPLIB DD DSN=
// DD DSN=CAI.CINB0SPJ,DISP=SHR
// DD DSN=CAI.CINB0SPL,DISP=SHR
//SYSPROC DD DSN=
// DD DSN=CAI.CINB0SCJ,DISP=SHR
// DD DSN=CAI.CINB0SCL,DISP=SHR
```

Accept SYSMOD CINB00J

The member XCB0ACCJ in the SAMPJCL library will accept the components of SYSMOD CINB00J into the Unicenter CA-XCOM Data Transport for z/OS distribution libraries.

Edit this member to conform to your installation standards and submit the job and review the output to verify that the ACCEPT processing ran successfully. If ACCEPT completed with an SMP return code greater than 4, review the output, correct the problem and resubmit.
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