



# Installation Guide

Release 3.6.0

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# About This Manual

This manual describes how to install Release 3.6.0 of PIE/CICS. The manual consists of a series of numbered steps that describe individual procedures of the installation process.

## Audience

This book is intended for system administrators and other personnel responsible for installing products at their site. Readers are expected to understand CICS and MVS concepts. Also, many of the procedures described in this manual require site-specific JCL changes to run batch jobs. Readers should be proficient editing JCL and familiar with their site's system standards.

## How This Manual is Organized

This manual consists of a single chapter and two appendixes. Listed below are the titles and a brief description of the chapter and appendixes:

- Chapter 1 Installation  
Describes individual steps to install PIE/CICS and integrate it with CICS.
- Appendix A Customer Service  
Describes procedures to report problems with PIE/CICS to UNICOM Systems, Inc. Software Customer Service.
- Appendix B Command Variables  
Lists JCL parameters included in the PIE/CICS installation jobs.

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## Recommended Reading

The title and a brief description of all PIE/CICS manuals are shown in the following lists. Some manuals provide common information that applies to both the common components and optional products of PIE/CICS.

Other manuals pertain only to optional products. These manuals need to be read only if these optional products are part of the PIE/CICS system installed at your site.

### Common Manuals

These manuals provide common information that applies to both shared and optional components of PIE/CICS.

- *PIE/CICS Release Notes*  
Describes new features and enhancements of PIE/CICS Release 3.6.0.
- *PIE/CICS Installation Guide*  
Describes procedures to install PIE/CICS.
- *PIE/CICS Customization Reference*  
Describes common procedures to adapt PIE/CICS to your site's requirements.
- *PIE/CICS Operation and Administration*  
Describes common features or facilities that are available to all PIE/CICS products. Performance tuning techniques and implementing security are also described.
- *PIE/CICS Command Reference*  
Lists all PIE/CICS environment and application commands.
- *REXX for PIE/CICS User Guide*  
Describes how to write, compile, and execute SAA-compliant REXX programs that operate within a PIE/CICS environment.
- *PIE/CICS Custom Menus Administrator Manual*  
Describes how to create custom MultiCICS and Dynamic Menu screens that provide alternate language support.

## Optional Manuals

These manuals describe optional PIE/CICS products.

- *PIE/CICS MultiCICS Administrator Manual*  
Provides customization procedures and usage information to support multiple PIE/CICS sessions with MultiCICS.
- *PIE/CICS Dynamic Menus Administrator Manual*  
Describes how to create custom PIE/CICS menus that provide extended security and enhanced transaction processing.
- *PIE/CICS NetGate Administrator Manual*  
Explains how to access multiple VTAM applications through a PIE/CICS session with NetGate.
- *PIE/CICS NetMizer Administrator Manual*  
Describes how to optimize 3270 data streams with NetMizer.
- *PIE/CICS Availability Plus Administrator Guide*  
Explains how to use Availability Plus to distribute and balance work across multiple CICS regions.
- *PIE/CICS NonStop CICS Administrator Manual*  
Describes how to route work across CICS regions to balance workloads and minimize down time in the event of a region failure with NonStop CICS.

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## Syntax Conventions

A syntax diagram is part of the description of each PIE/CICS command included in this manual. A diagram shows the possible parameters, values, and variables associated with a command.

Syntax diagrams adhere to common conventions. The physical appearance of a diagram's elements indicates whether a command parameter, variable, or other values are required, optional, or included by default.

- An underlined parameter is the default assigned to the command.
- Command names are presented in MIXed case. The uppercase portion of a command name is the requisite abbreviated form. Lowercase letters represent the optional remainder of the command name that need not be specified to execute the command.
- An *italicized lowercase* parameter represents a value assigned by the user.
- A vertical bar ( | ) separates two or more mutually exclusive parameter values. Only one value can be specified for each parameter.
- Parameters enclosed within brackets [ ] are optional. Only one value can be specified to a parameter.
- Parameters values enclosed within braces { } are required. If unspecified, the parameter default is assigned to the command.



# Chapter 1 Installation Overview

This chapter describes procedures to install PIE/CICS and make any necessary changes to your site's CICS system. The chapter consists of a series of numbered steps that describe individual tasks that must be completed as part of the overall PIE/CICS installation procedure.

If you are installing PIE/CICS for the first time, you should anticipate spending several hours to complete this installation procedure.

## Installation Considerations

The following list describes some common issues that should be considered before completing the PIE/CICS installation procedure.

- Review the *Release Notes* sent with the PIE/CICS product tape.  
The *Release Notes* describe PIE/CICS requirements for system resources, disk space, and the format of the product distribution tape.
- If you use CICS MRO or ISC Transaction Routing, you must install PIE/CICS in a Terminal Owning Region (TOR).  
In some cases, you must also install PIE/CICS into Application Owning Regions (AORs). The conditions and requirements to install PIE/CICS into AORs are discussed in ["Step 6: Add MRO/ISC Support" on page 12](#).
- PIE/CICS needs to be customized after it has been installed.  
Customization requirements vary by the combination of shared and optional PIE/CICS components that are installed together. This manual describes the procedures to install the common, shared components of PIE/CICS. Refer to the appropriate manual within the PIE/CICS library for more information about installing and customizing optional PIE/CICS components.
- Sites currently running an earlier release of PIE/CICS should reinstall all of their licensed product components to ensure they are at release level 3.6.0.  
Current customers should read ["Chapter 2 Migrating to Release 3.6.0" on page 7](#) of the *Release Notes* for a procedure to migrate to this release.
- If you are installing NonStop CICS, you should also review Chapter 2, "Installation," in the *NonStop CICS Administrator Guide* before completing any of the installation procedures described in this manual.

The remainder of this chapter describes each step of the overall PIE/CICS installation procedure. No system IPL is required after installation is complete.

## Contents of the PIE/CICS Distribution Tape

The PIE/CICS distribution tape consists of the following files:

- FILE 1**      Contains the PIE/CICS installation control (CNTL) data set. This file is a partitioned dataset (PDS) that includes sample JCL to install all PIE/CICS products distributed on the tape.
- Name:        TSCPIE.PC@330.CNTL  
                  Blocksize:    IEBCOPY unload format. BLKSIZE 6160  
                  Disk space:  3cylinders of 3390 disk space
- FILE 2**      Contains the PIE/CICS load library.
- Name:        TSCPIE.PC@330.LOADLIB  
                  Blocksize:    IEBCOPY unload format. BLKSIZE 6144  
                  Disk space:  5 cylinders of 3390 disk space
- FILE 3**      Contains the PIE/CICS macro library.
- Name:        TSCPIE.PC@330.MACLIB  
                  Blocksize:    IEBCOPY unload format. BLKSIZE 6160  
                  Disk space:  4 cylinders of 3390 disk space
- FILE 4**      Contains the PIE/CICS sample library consisting of example user program exits and system option macros.
- Name:        TSCPIE.PC@330.SAMPLIB  
                  Blocksize:    IEBCOPY unload format. BLKSIZE 6160  
                  Disk space:  5 cylinders of 3390 disk space
- FILE 5**      Contains the distributed source dataset to initially load the PIE/CICS VSAM System Repository database.
- Name:        TSCPIE.PC@330.REPSRCE  
                  Blocksize:    IEBCOPY unload format. BLKSIZE 2604  
                  Disk space:  3 cylinders of 3390 disk space

## Step 1: Unload the CNTL Dataset

This step unloads the first file from the PIE/CICS product tape. The CNTL file is the PIE/CICS installation control dataset. The installation steps described in this chapter use members from the CNTL dataset to install PIE/CICS and update CICS tables.

The following list describes the contents of the members belonging to the CNTL dataset:

<b>INSTALL</b>	Job to allocate and load the remaining PIE/CICS datasets from the product tape.
<b>DEFVSAM</b>	Job to define and initially load PIE/CICS VSAM files.
<b>PIESIT, PIEPCT, PIEPPT, and PIEFCT</b>	Source CICS table macros to update CICS tables.
<b>PIERDO</b>	Job to migrate the required CICS table entries to Resource Definition Files (If you are using RDO to maintain your CICS tables).
<b>OPTSRCE</b>	Input data record for initial load of the PIE/CICS VSAM Options file.
<b>PIEDDS</b>	Sample DD statements that are added to the CICS start-up procedure.
<b>MRODDS</b>	DD statements to add MRO support to a remote CICS region.
<b>MROFCT</b>	DD statements to add ISC support to a remote CICS region.

Various sample programs and PIE/CICS tips and hints articles are in the SAMPLIB dataset. Refer to the \$INDEX member of the CNTL dataset for a listing of sample members.

- 1. Use IEBCOPY to unload the CNTL dataset from the PIE/CICS distribution tape.**  
Use the sample job shown below as a guide.
- 2. Change the DSN parameter on the SYSUT2 DD statement and specify a volume to store the CNTL dataset.**

Unless you use an installation defined high-level qualifier, the dataset will be cataloged in the master catalog. PIE is assumed to be the high-level qualifier for PIE/CICS. The middle qualifier contains the release level to make dataset names unique for each release. PC@330 is assumed to be the middle qualifier.

```
//LOADJCL JOB 1234,'LOAD PIE/CICS',MSGLEVEL=(1,1),MSGCLASS=X
//LOAD EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD VOL=SER=PIETAP,UNIT=TAPE,
// DSN=TSCPIE.PC@330.CNTL,
// DISP=OLD,LABEL=(1,SL,EXPDT=98000)
//SYSUT2 DD UNIT=SYSDA,DISP=(,CATLG,DELETE),
// DSN=PIE.PC@330.CNTL,<==Change the high and
//* mid level qualifiers to names you intend
//* to use for all PIE/CICS datasets
// VOL=SER=volser<== volume serial to store the dataset
// SPACE=(6160,(200,20,30),,ROUND),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//SYSIN DD DUMMY
//
```

## Step 2: Unload Remaining Datasets

Step 2 uses in-stream procedures from the INSTALL job to complete the following major installation tasks:

- INSTALL unloads Files 2 through 5 from the product tape and copies them to disk to create the following PIE/CICS datasets:
  - PIE/CICS load library
  - PIE/CICS macro library
  - PIE/CICS sample library
  - PIE/CICS distributed source Repository dataset
- INSTALL builds an external interface to the site security system for user log on verification.
- INSTALL reassembles the PCSTPPVI, PCTTPUX1, PC@XPSEC, and PG@RPCSC programs.

### 1. Edit the INSTALL member.

The sample JCL includes comments that describe INSTALL parameters. For a more complete description of these parameters, refer to "[INSTALL Job](#)" on page 23.


### 2. Update the VOLSER parameter to identify the target volume that will store the PIE/CICS datasets.

### 3. Assign the CICS security system to the SECURITY parameter.

The default is RACF.

<b>RACF</b>	Resource Access Control Facility
<b>TOPS</b>	Top Secret
<b>ACF2</b>	ACF/2
<b>OMNI</b>	OMNIGUARD (for CICS 2.1.2 only)
<b>NONE</b>	No CICS security
<b>CICS</b>	Standard CICS security using DFHSEC macro (not valid for CICS 4.1 and above)
<b>SNP</b>	Standard CICS security using DFHSNP macro

### 4. Run the INSTALL job.

 You may receive condition code 12 on step TRNPVI. You can ignore it.

## Step 3: Create PIE/CICS VSAM Datasets

This step creates the following PIE/CICS VSAM datasets:

- Repository database
- Options file

Use the job in the DEFVSAM member of the CNTL dataset to create and initialize both datasets. Comments are included in the JCL that describe DEFVSAM parameters. If you want a more detailed description of the job parameters refer to [“DEFVSAM Job”, beginning on page 24](#).


Running this step creates a new Repository that overlays the contents of the current Repository. If you are upgrading PIE/CICS from an earlier release, you may have existing menus and other objects stored on your current Repository database that you wish to retain. Skip this step and continue using the existing Repository database and Options file if you want to retain current objects.

Alternatively, you can install the new Repository and migrate existing objects into it using procedures described in [“Repository Load Utility”](#) of the *Operation and Administration Guide*.

- 1. Edit the DEFVSAM member of the CNTL dataset.**
- 2. Modify the VOLSER identifier in the IDCAMS SYSIN input data.**
- 3. Change the CLUSTER NAMES in the IDCAMS SYSIN input data if you have changed the high or middle-level qualifier for VSAM datasets (QV1 and Q2).**

You can define a catalog alias for the high-level qualifier, QV1, that points to the VSAM catalog that will control the PIE/CICS VSAM datasets.

- 4. Run the DEFVSAM job.**

 A return code of 8 (dataset not found) from IDCAMS is a normal response the first time you execute this job because the Repository and Options files are not yet available. Ignore this error.

## Step 4: Add Entries to CICS Tables

This step adds PIE/CICS entries to the following CICS tables:

- Program List Table (PLT)
- System Initialization Table (SIT)
- Program Control Table (PCT)
- File Control Table (FCT)
- Destination Control Table (DCT)


The following sections describe the changes required for each table. If you are using MRO/ISC, make all changes in your TORs. Do not make changes in your AORs. AOR requirements are discussed in [“Step 6: Add MRO/ISC Support,” on page 12](#).

If you are not using MRO/ISC, make all changes in your stand-alone CICS region(s).

If you are using NonStop CICS, do **not** make these changes to your NSCR tables except as directed in the *NonStop CICS Administrator Guide*.

### Update the PLT

Program List Table (PLT) entries initialize PIE/CICS, NetGate, and the Network Monitor at CICS start-up. If these entries are not present, PIE/CICS initializes the first time a user issues the PIE or PSGM transaction from a CICS terminal. You can insert PLT entries after you have installed PIE/CICS and finished your initial testing.

 PLTPI entries are optional. Options can be selected from the Customization Options utility to automatically initialize PIE/CICS, NetGate, and the Network Monitor at CICS start-up. Refer to [“Chapter 5 Customization Options” on page 65](#) of the *Customization Guide* for instructions. However, if you are using FETCH from Axios, PIE/CICS must be initialized in the PLTPI before FETCH is initialized.

#### 1. Add an entry for the PCSMPINI program in the PLTPI.

CICS Release 3.3 or later     Insert the entry after your DFHDELIM entry.

CICS Release 2.1.2             Insert the new entry anywhere.

You can copy the entry from the PIEPLTPI member of the CNTL dataset.

```
DFHPLT TYPE=ENTRY,PROGRAM=DFHDELIM     CICS 3+ and above
DFHPLT TYPE=ENTRY,PROGRAM=PCSMPINI     PIE/CICS INIT
```

#### 2. Add an entry for the PCNMPINI program to your PLTPI if you are using Availability Plus, NonStop CICS, or NetGate.

PCNMPINI starts the Network Monitor. Insert the entry after the PCSMPINI entry. You can copy and uncomment the entry from the PIEPLTPI member of the CNTL dataset.

```
DFHPLT TYPE=ENTRY,PROGRAM=DFHDELIM     CICS 3+ and above
DFHPLT TYPE=ENTRY,PROGRAM=PCSMPINI     PIE/CICS INIT
DFHPLT TYPE=ENTRY,PROGRAM=PCNMPINI     NETWORK MONITOR
```

#### 3. Add an entry for PCNMPINI to your PLTSD if you are using NetGate, NonStop CICS, or Availability Plus. Be sure to add it before your DFHDELIM entry.

```
DFHPLT TYPE=ENTRY,PROGRAM=PCNMPINI NETGATE
DFHPLT TYPE=ENTRY,PROGRAM=DFHDELIM     CICS 3+ and above
```

#### 4. Reassemble the PLTs.

## CICS RDO Migration PCT/PPT/FCT

The PIERDO job adds a group (named PIEC0330) to your CICS System Definition (CSD) containing all PIE/CICS program, map, and transaction definitions. For CICS version 3.3 and above, the file definitions are also included.

Skip this section if you are **not** using the CICS Enhanced Definition (CEDA) transaction feature (RDO) for your CICS table maintenance.

#### 1. Edit the PIERDO member of the CNTL dataset.


#### 2. Specify values for all required and optional parameters of the PIERDO job.

You must change the DFHCSD parameter to identify the dataset name of the CICS RDO CSD file. Refer to "[PIERDO Job](#)" on page 25 for a description of PIERDO parameters.

#### 3. Run the PIERDO job.

## Update the SIT

PIE/CICS requires that CICS exit facilities, command level EXEC interface support, and standard or full BMS support are enabled at CICS start-up. Also, you must activate log on message processing to allow the PIE/CICS Logon Director to interface with VTAM to retrieve user IDs and passwords passed from a VTAM front-end or another PIE/CICS region.

 You cannot modify your CICS start-up procedure instead of your SIT to override the DFHSIT defaults.

#### 1. Make the following changes to DFHSIT table parameters:

```
EXEC=YES           CICS 2.1.2 only
EXITS=YES         CICS 2.1.2 only
BMS=STANDARD or FULL, etc.
LGNMSG=YES
CLSDSTP=NOTIFY   for PIE/CICS Availability Plus and NonStop CICS only
```

#### 2. Adjust the size of EDSA storage for CICS regions running CICS version 3.3 and above.

Screen images have been moved from OSCOR to Extended (CICS KEY) DSA storage for CICS version 3.3 and above. Calculate the required EDSA storage based upon the anticipated average number of users on a region with the following types of 337x terminals:

Model 2, not extended	3000 bytes
Model 2, extended	6800 bytes
Model 3, not extended	3600 bytes
Model 3, extended	8800 bytes

Multiply the expected number of users by the byte usage for the type of terminals they are using to calculate a region's EDSA storage requirements.

#### 3. Reassemble the SIT.

## Update the PCT

Omit this procedure if you are using RDO.

1. **Copy the PCT entries from the PIEPCT member of the CNTL dataset into the PCT.**

2. **Edit the TRANSEC and EXTSEC security parameters.**

Do not modify any other parameters. Refer to ["Chapter 6 Security" on page 73](#) of the *Customization Reference* for information about PIE/CICS transaction security requirements.

3. **If you selected the OMNIGUARD security system (SECURTY=OMNI) in the INSTALL job, you must specify a TWA size of 2048 for all PIE/CICS transactions.**

In the PIEPCT member, add the parameter TWASIZE=2048 to all entries. The first entry should look like the following example:

```
DFHPCT TYPE=ENTRY , PROGRAM=PCSPPPFF , TRANSID=PAFU , TWASIZE=2048
```

4. **Reassemble the PCT.**

## Update the PPT

Omit this procedure if you are using RDO.

1. **Copy the entries from member PIEPPT of the CNTL dataset into your PPT.**

Do not modify these entries.

2. **Reassemble the PPT.**

## Update the FCT (CICS 2.1.2 only)

This section applies only to sites running CICS Version 2.1.2. If you are installing PIE/CICS to run with CICS version 3.3 and above, FCT definitions are included in the PIERDO job, and you can omit this procedure.

1. **Copy entries from member PIEFCT of the CNTL dataset into the FCT.**

PIEFCT uses the LSR (Local Shared Resources) option. This is preferred for optimum PIE/CICS performance. If you do not want to use LSR, follow the instructions in PIEFCT to remove LSR support.

2. **Verify the value of the KEYLEN parameter is at least 33 if you coded the optional DFHFCT TYPE=SHRCTL macro in the FCT.**



### 3. Set a value for the STRNO parameter of the PC@REPS dataset.

There should be at least one string for each group of 50 concurrent PIE/CICS users. For example, if there are 200 PIE/CICS users, the string number should be set to STRNO=4. The minimum STRNO value that should be assigned to both the PC@OPTN and PC@REPS datasets is 2.

```
*****
*          PIE/CICS OPTIONS CONTROL FILE          *
*****
PC@OPTN  DFHFCT TYPE=DATASET,DATASET=PC@OPTN,      X
         ACCMETH=VSAM,                             X
         SERVREQ=(UPDATE,ADD,BROWSE,DELETE),       X
         LSRPOOL=1, <=== CHG TO "LSRPOOL=NONE" IF LSR SUPPORT X
         RECFORM=(VARIABLE,BLOCKED),              IS NOT REQUIRED X
         STRNO=2
*
*****
*          PIE/CICS REPOSITORY FILE              *
*****
PC@REPS  DFHFCT TYPE=DATASET,DATASET=PC@REPS,      X
         ACCMETH=VSAM,                             X
         SERVREQ=(UPDATE,ADD,BROWSE,DELETE),       X
         LSRPOOL=1, <=== CHG TO "LSRPOOL=NONE" IF LSR SUPPORT X
         RECFORM=(VARIABLE,BLOCKED),              IS NOT REQUIRED X
         STRNO=6,BUFND=18,BUFNI=2
*
```

Allocating more PC@REPS strings provides better PIE/CICS performance at the expense of increased virtual storage usage. If you are running PIE/CICS in an MRO or ISC transaction routing environment where your PC@REPS dataset resides in the TOR, and all or most of your applications reside in AORs, you can allocate more strings. More virtual storage may be available in the TOR, and more strings can be allocated since VSAM buffers are resident above the 16 MB line.

The STRNO parameter on the PC@OPTN dataset does not need to be changed.

### 4. Reassemble the FCT.

## Update the DCT

Network Monitor is required by Availability Plus, NetGate, and NonStop CICS. The Network Monitor start-up program, PCNMPINI, reads the PNAM file and places its commands in a transient data queue. Destination Control Table (DCT) entries are required to support the transient data queue.

PIE/CICS uses the default CICS destination ID (destid) PIEL as the message log. A DCT entry should be inserted for the PIE/CICS message log dataset. Also, the name of the message log can be changed from the Customization Options utility. Refer to [page 69](#) of the *Customization Reference* for instructions to complete the options field.

### 1. Copy the entries from the PIEDCTNM member of the CNTL dataset into the DCT if you are using Availability Plus, NetGate, or NonStop CICS.

```
PNAM DCT entries
*****
* PIE/CICS DCT ENTRIES FOR NETWORK MONITOR PARM FILE *
*****
PIENAM DFHDCT TYPE=SDSCI,          NM INPUT PARM FILE      X
              DSCNAME=PIENAM,          X
              TYPEFLE=INPUT,           X
              OPEN=DEFERRED,           X
              BUFNO=1
*
PNAM DFHDCT TYPE=EXTRA,          NM DESTINATION      X
              DESTID=PNAM,             X
              DSCNAME=PIENAM
```

### 2. Copy the entries from the PIEDCT member of the CNTL dataset into the DCT.

These entries provide support for the PIE/CICS message log.

```
PIELOG DCT Entries
*****
* PIE/CICS OUTPUT MESSAGE AND AUDIT TRAIL LOG *
*****
PIELOG DFHDCT TYPE=SDSCI,          PIE MESSAGE/AUDIT TRAIL LOG X
              DSCNAME=PIELOG,          X
              BLKSIZE=136,             X
              RECSIZE=132,             X
              RECFORM=VARUNB,          X
              TYPEFLE=OUTPUT,          X
              BUFNO=1
PIEL DFHDCT TYPE=EXTRA,          PIE MESSAGE/AUDIT TRAIL LOG X
              DESTID=PIEL,             X
              DSCNAME=PIELOG
```

### 3. Reassemble the DCT.

## Step 5: Update CICS Start-Up Procedure

This step updates CICS start-up procedures to initialize a region with PIE/CICS. Make these updates in your stand-alone CICS regions, TOR, and/or NSCR.

1. **Copy the following DD statements from the PIEDDS member of the CNTL dataset into the CICS start-up procedure.**

```

/* CHANGE ACCORDINGLY:
/* &Q1 TO FIRST LEVEL QUALIFIER (PIE)
/* &QV1 TO FIRST LEVEL QUALIFIER (PIEVS) FOR VSAM
/* &Q2 TO 2ND LEVEL QUALIFIER (PC@330)
/*-----
/* CONCATENATE TO CICS DFHRPL LOAD LIBS
/* DD DSN=&Q1..&Q2..LOADLIB,DISP=SHR
/*-----
/* PIE/CICS VSAM DATASETS
/*PC@OPTN DD DSN=&QV1..&Q2..OPTCTRL,DISP=SHR
/*PC@REPS DD DSN=&QV1..&Q2..REPCTRL,DISP=SHR
/*-----
/* OPTIONAL PIE MESSAGE/AUDIT TRAIL LOG
/*PIELOG DD SYSOUT=*,DCB=(RECFM=V,BLKSIZE=136)
/*-----
/* OPTIONAL DEFINITION OF AVAILABILITY PLUS PARMFILE.
/* UNCOMMENT IF YOU DEFINE THE DCT ENTRIES FOR AVAILABILITY+
/*PIENAM DD DSN=&Q1..&Q2..CNTL(PNAMEXPL),DISP=SHR
/*-----
/* OPTIONAL DEFINITION OF NETWORK MONITOR PARMFILE.
/* UNCOMMENT IF YOU DEFINE THE DCT ENTRIES FOR NETGATE
/*PIENAM DD DSN=&Q1..&Q2..CNTL(NETGEXPL),DISP=SHR
/*-----
/* OPTIONAL DEFINITION OF NETWORK MONITOR PARMFILE.
/* UNCOMMENT IF YOU DEFINE THE DCT ENTRIES FOR NONSTOP CICS
/*PIENAM DD DSN=&Q1..&Q2..CNTL(NSCEXPL),DISP=SHR

```

2. **Uncomment the PIENAM DD statements for Availability Plus, NonStop CICS, and NetGate, if applicable.**

Concatenate the PIENAM datasets if more than one component is installed at your site.

3. **If you are using RDO and selected the OMNIGUARD security system in the INSTALL job, specify a transaction work area (TWA) size of 2048 for all PIE/CICS transactions.**

Use CEDA to add a TWA of 2048 to all PIE/CICS transactions:

```
CEDA ALTER GROUP(PIEC0330) TRAN(*) TWA(2048)
```

4. **If you used the PIERDO job, install the groups using the CEDA transaction.**

Enter the following command:

```
CEDA INSTALL GR(PIEC0330)
```

If you used the PIERDO job, you can add the PIE/CICS group to your CICS start-up list.

5. **Determine your CICS start-up list name.**

This is the name identified on the GRPLIST parameter in your SIT overrides, or it is in the SIT overrides of your DFHSIT table.

6. **Use the following CICS online CEDA command. (Substitute your start-up list name for dfhlist after you have found the start-up list name.)**

```
CEDA ADD GR(PIEC0330) LIST(dfhlist)
```

## Step 6: Add MRO/ISC Support

If you use CICS MRO or ISC transaction routing, you must install PIE/CICS into every AOR that performs any of the following processing:

- Route multiple PIE/CICS MultiCICS sessions to the same AOR
- Use the PIE EXEC application program interface in the AOR
- Balance workloads using the Availability Plus CPU load balancing method

This step can be completed later as part of the procedures to customize optional PIE/CICS components.

See the *Availability Plus Administrator Guide* for more information about load balancing methods. "Running Multiple PIE/CICS Systems" in the *Customization Reference* has complete information about all possible MRO/ISC configurations.


Complete the following procedure for each AOR that meets any of the listed conditions.

- 1. Add all of the PPT and PCT entries described in "Step 4: Add Entries to CICS Tables" on page 6.**
- 2. Make sure the DFHSIT table has EXITS=YES and EXEC=YES (CICS 2.1.2 only).**
- 3. Add the Options file (PC@OPTN) to the FCT and define it as a read only dataset.**

This allows you to create a single Options file that can be shared between all regions. You created the Options file in "Step 3: Create PIE/CICS VSAM Datasets" on page 5. You will modify it in later installation and customization procedures. You may copy the FCT entry from the MROFCT member of the CNTL dataset.

- 4. Add the PCSMPINI program to the PLTPI to start PIE/CICS when the AOR is started.**

You can copy the entry from the MROFCT member of the CNTL dataset.

 PIE/CICS does not initialize automatically in an AOR when a user enters the PIE or PSGM transaction in the TOR. Therefore, you **must** initialize PIE/CICS in the PLTPI of the AOR. Alternatively, you can use the CRTE transaction to transfer control to the AOR and then execute the PIE transaction.

- 5. Edit the start-up JCL of each AOR and add the DD statements for the Options file (PC@OPTN) and the PIE/CICS LOADLIB to the DFHRPL concatenation.**

You can copy the DD statements into the MRODDS member of the CNTL dataset.

- 6. Open the PIE/CICS Customization Options utility after you have installed your password using the procedure described in "Step 8: Enter PIE/CICS License Information" on page 14.**

Refer to "Chapter 5 Customization Options" on page 65 of the *Customization Reference* for a description of the procedure to change PIE/CICS operating parameters with the Customization Options utility.

- 7. Specify YES for the MRO/ISC Support option field and save your changes.**

You must make this change for both TORs and AORs. Changes will be made automatically for all regions with the Options file defined as read only in Step 3 of this procedure.

## Step 7: Run the Installation Verification Program

The Installation Verification Program (IVP) confirms that PIE/CICS has been installed correctly. Complete the following procedure on each region that PIE/CICS has been installed.

1. **Initialize the region.**
2. **Verify the CICS tables and RDO groups containing the program, transaction, and file definitions are active.**
3. **Invoke the P#IV transaction.**

P#IV verifies that all PIE/CICS resources (programs, maps, transactions, and files) are present and SIT parameters have been specified correctly. This transaction takes several minutes to complete because all PIE/CICS programs are loaded.

A series of status messages are written to the terminal that show the progress of the verification program.

```
VERIFYING PIE TRANSACTIONS
VERIFYING PIE PROGRAMS
VERIFYING PIE MAPS
VERIFYING PIE FILES
VERIFYING PIE SIT PARAMETERS
```


A final message is displayed when P#IV finishes without any installation errors.

```
PIE/CICS IVP COMPLETED SUCCESSFULLY
```

If errors or warnings were encountered, the following message appears:

```
PIE/CICS IVP COMPLETED WITH ERRORS --
SEE CSMT LOG OR TSQ "PIECIVP"
(ENTER "CEBR PIECIVP" TO VIEW ERRORS AND WARNINGS)
```

IVP writes messages to the CSMT log and to the PIECIVP temporary storage queue if installation errors are encountered.

 A message for a missing PIE file error for the PC@REPS Repository can be ignored for an AOR. The PC@REPS file should be attached to the TOR only.

4. **Use the CEBR PIECIVP transaction to browse the temporary storage queue and view the log.**

Use the FIND command to search for the words ERROR or WARNING within the log to locate the reported errors.
5. **Correct all errors before completing any further PIE/CICS installation steps.**
6. **Repeat this step for all regions that run PIE/CICS until all errors have been corrected and the Installation Verification Program runs successfully.**

## Step 8: Enter PIE/CICS License Information

You must enter your site's product license information before initializing PIE/CICS. You can find this information in the letter sent with your PIE/CICS distribution tape. If you do not have the letter, call UNICOM Systems, Inc. Customer Service for assistance. Refer to "[Customer Support](#)", beginning on page 19 for instructions to contact Customer Service.

This step discusses the procedure to enter license control information in the PC@OPTN Options file. Changes to this file are made by entering values in the fields of the PIE/CICS Installation Options menu shown in the following figure.

Perform the following steps in your stand-alone CICS regions or your TOR. If you are using NonStop CICS, perform them in your NSCR.

### 1. Execute the PIE transaction.

If you have valid license control information, the PIE transaction places you at the PIE/CICS Logon Director screen. In that case, you can skip this step and proceed to "[Step 9: Testing and Implementation](#)" on page 17. Or, if you simply need to change password information, enter the **PINO** transaction.

If the PC@OPTN Options file does not contain valid license control information, the PIE transaction automatically displays the PIE Installation Options panel shown below to allow you to enter license control information.

### 2. Enter license information in the appropriate fields of the PIE Installation Options menu.

```

PIE Installation Options ----- (C) 1997 TSC, Inc
Command ==>

Customer Name   ==> TECHNOLOGIC SOFTWARE           Version   - 03.03.00
                                                    Date     - 06/21/1999
Expiration date ==> 2001.365                       Julian    - 1999.185
                                                    This CPUID - 000004609221
Password        ==> ABCZDWUOXYZ                   APPLID   - TSCDB

Password Type   ==> 3

  1 Trial                3 Site License      5 Disaster Recovery
  2 Permanent License   4 CPU License

CPU ID          ==> 000000000000 (12 digits; Password Type 2 or 4 only)

Enter Y to select component, N to de-select component

  Y MultiCICS          N Availability + Y Netgate
  Y Netmizer           Y Dynamic Menus  N NonStop CICS

PF: 1 Help  3 End  5 Save  6 RETRIEve  9 Delete 10 Prev 11 Next

PF: 1 Help  3 End  5 Save  6 RETRIEve  9 Delete 10 Prev 11 Next


```

---

<b>Customer Name</b>	Customer name shown on the PIE/CICS license agreement. The name is placed in the password file.
<b>Expiration date</b>	<p>PIE/CICS expiration date in julian format, yyyy.ddd provided by UNICOM Systems, Inc.</p> <p>If a password expires or PIE/CICS has been installed on an unauthorized CPU, a WTOR message appears with an explanation of the problem. The WTOR places all of CICS in a wait state. Operators must respond by entering the code that appears in the WTOR message to continue CICS processing. The code varies each time the WTOR message is displayed. The WTOR message allows sites to run PIE/CICS temporarily until a new password can be obtained from UNICOM Systems, Inc. Customer Service.</p>
<b>Password</b>	<p>11- character password provided by UNICOM Systems, Inc.</p> <ul style="list-style-type: none"><li>• You must apply a password if Release 3.6.0 is the initial PIE/CICS release installed at your site.</li><li>• You must apply your new PIE/CICS password to upgrade to Rel 3.6.0 from Release 3.5.0 and earlier. Existing PIE/CICS passwords prior to Release 3.3.0 do not work with Release 3.5.0 nor 3.6.0.</li><li>• You have to apply a new password if you are upgrading from Release 3.3.0 to Release 3.6.0 on the same CPUs with the same combination of optional PIE/CICS product components.</li></ul>
<b>Password Type</b>	<p>Type of password based upon the PIE/CICS license agreement.</p> <ol style="list-style-type: none"><li><b>1</b> Temporary password to evaluate PIE/CICS on a trial basis with a fixed expiration date but no CPU ID.</li><li><b>2</b> Permanent password assigned to a CPU ID with an expiration date of 9999.365.</li><li><b>3</b> Password that allows PIE/CICS to run on any CPU with a fixed expiration date. PIE/CICS can run on unauthorized CPUs, but is disabled after the password expiration date.</li><li><b>4</b> Password that allows PIE/CICS to run on a specific CPU with a fixed expiration date.</li><li><b>5</b> Temporary password for disaster recovery purposes.</li></ol>
<b>CPU ID</b>	12-character identifier of the CPU on which PIE/CICS is licensed to operate. CPU ID applies only to the Permanent License and CPU License password types (Options 2 and 4). There may be more than one CPU entry. If so, enter and save each CPUID separately.

**Selection of products** Optional PIE/CICS components that your installation is licensed and authorized to use. Enter **Y** (Yes) in the field preceding an optional component if you are licensed to use it. Enter **N** (No) if you are not authorized.

**3. Press PF5 (SAVE) after entering all data within the fields of the Installation Options menu.**

 You must press PF5 (SAVE) to save the changes. Changes to the Installation Options menu are **not** saved if you press the END key.

In response to the SAVE command, you should see the message "CPU ID record has been saved" displayed on your screen. If you did not, an error message is displayed, and the cursor is positioned on the field containing an error. Correct the error and save your changes to the Installation Options menu again.

**4. Enter the 12 character CPU ID for each CPU that runs PIE/CICS.**

Overtyping the current fields with other license information associated with the CPU.

**5. Press PF5 (SAVE) to save the license information associated with this CPU.**

**6. Repeat steps 4 and 5 until all CPU IDs have been entered.**

**7. Press your END key to exit from the PIE Installation Options panel.**

PIE/CICS completes the initialization phase after you exit from the Installation Options menu. The Logon Director screen will be displayed next.

**8. Enter your user ID and password from the Logon Director panel to sign on to PIE/CICS.**

**9. Update the User Directory to restrict system administrator authority to only authorized users.**

The default values of the Repository database distributed with the product tape grant all users PIE/CICS system administrator authority. System administrator authority should be restricted to the appropriate users as soon as PIE/CICS has been fully installed and customized.

Refer to "[Chapter 4 Terminal and User Directories](#)" on page 43 of the *Customization Reference* for more information.



## Step 9: Testing and Implementation

If you have completed all of the previous steps, PIE/CICS is now ready for testing and phased introduction to your user community. This step describes any additional tasks that must be completed prior to placing PIE/CICS into production. Each step includes a reference for more information about these implementation tasks.

**1. Make the PIE/CICS Logon Director the “Good Morning” transaction before introducing PIE/CICS to your users.**

Refer to [“Using the Logon Director as the Good Morning Message” on page 8](#) of the *Customization Reference* for more information.

PIE/CICS should be gradually phased in and made available to your user community. You can selectively activate the “good morning message” on certain terminals. See [“Chapter 4 Terminal and User Directories” on page 43](#) of the *Customization Reference* for procedures.

**2. Check performance and tuning requirements in the chapter titled “Chapter 11 Performance and Tuning” on page 153 of the Customization Reference.**

Also, examine the size of your CICS auxiliary storage dataset. PIE/CICS frequently uses auxiliary temporary storage. Depending on the combination of installed PIE/CICS products, the number of PIE/CICS users, and whether you have selected the `Temp Storage on Auxiliary=YES` option with the PIE Customization Options utility, more temporary storage may be required than in previous releases. Therefore, you should monitor and adjust the size of your auxiliary temporary storage dataset as required.

**3. Authorize PIE/CICS transactions to your site’s security system.**

Refer to [“Securing PIE/CICS Transactions” on page 80](#) of the *Customization Reference*.

**4. Verify any software compatibility requirements in “Appendix C Software Compatibility” on page 169 of the Customization Reference.**

**5. Complete any additional customization steps for each optional product that is installed as part of the PIE/CICS family of products.**

Refer to the individual product manuals. Also, review the *Customization Reference* for any other customization options or requirements.



## Appendix A Customer Support

This appendix describes how to get help from Customer Service when you experience a problem with a UNICOM Systems, Inc. product. This appendix includes separate sections that describe several diagnostic suggestions to rule out user errors and the information you should have ready before reporting the problem.

### Contacting Customer Service

UNICOM Systems, Inc. Customer Service can be reached by the following methods:

Phone	818-838-0606
Fax	818-838-0776
Email	support@unicomsi.com

A Support and Services web page provides Customer Service information about all of UNICOM Systems, Inc. products. Use the following URL to browse the Support and Services web page:

<http://www.unicomsi.com/support>

The Support and Services web page provides an online form to report a problem with a UNICOM Systems, Inc. product. Use the following URL to complete and submit a Technical Support Request form:

<http://www.unicomsi.com/support>

Normal business hours are from 6:00 a.m. to 4:30 p.m. Pacific Standard Time, Monday through Friday. Emergency customer service is available 24 hours a day, 7 days a week.

An answering service receives customer service calls beyond normal business hours. You may leave a message if it is not an urgent problem. A customer service representative will return your call at the start of the next business day.

Requests for urgent support outside of normal business hours are answered immediately. A customer service representative will be summoned to return your call. Leave a phone number where you can be reached. If you have not received a return call from a Customer Service representative within an hour of reporting the problem, please call back. Our customer service representative may be experiencing difficulties returning your call.

International customers should contact their local distributor to report any problems with a UNICOM Systems, Inc. product.

## Troubleshooting Suggestions

This section describes several troubleshooting suggestions to diagnose common errors that can cause PIE/CICS problems. Before calling Customer Service, follow these suggestions to rule out the possibility these errors are causing your PIE/CICS problem.

- Run the Installation Verification Program with the **P#IV** transaction. Browse the PIECIVP temporary storage queue to see if it contains error messages that suggest problems with the allocation of CICS programs, transactions, maps, or files.
- Verify that any recent changes to your site's operating system, CICS, or other products are fully compatible with PIE/CICS.
- Verify that all load modules are at the same release level if a new release of PIE/CICS was installed over a previous release.
- Check that all modules were reassembled after upgrading PIE/CICS or applying maintenance to CICS.
- Verify that all PIE/CICS system tables were reassembled after applying maintenance to CICS or upgrading to another release.
- Verify that all users have current PIE/CICS passwords and have entered them correctly.
- Examine your CICS logs, MVS console, and PIE/CICS logs for error messages from not only PIE/CICS, but any other product that runs concurrently with PIE/CICS.

## Describing the Problem

Gather the following information about your system environment before reporting a problem to UNICOM Systems, Inc. Customer Service:

Operating system release and PUT Level \_\_\_\_\_

VTAM system release and PUT Level \_\_\_\_\_

PIE/CICS release \_\_\_\_\_

Date of PIE/CICS distribution tape \_\_\_\_\_

Gather the following information about your CICS system before reporting a problem to UNICOM Systems, Inc. Customer Service:

CICS release and PUT Level \_\_\_\_\_

CICS configuration MRO/ISC etc. \_\_\_\_\_

Real or virtual terminal \_\_\_\_\_

Before calling UNICOM Systems, Inc. Customer Service, get answers to the following questions.

What PIE/CICS products were active when the problem occurred?

Availability Plus

Dynamic Menus

MultiCICS

NetGate

NetMizer

NonStop CICS

Is the problem occurring in the TOR or AOR? \_\_\_\_\_

Is the problem occurring in a production or test region? \_\_\_\_\_

What is the severity of the problem? \_\_\_\_\_

What are the major symptoms of the problem? \_\_\_\_\_

Is the problem re-creatable under specific conditions? \_\_\_\_\_

Has the problem occurred more than once? \_\_\_\_\_

Were changes made to CICS or PIE/CICS immediately prior to the occurrence of the problem? \_\_\_\_\_

What other software products were running when the problem occurred? \_\_\_\_\_

Is a diagnostic message produced when the problem occurs? If so, what is the ID and text of the messages? \_\_\_\_\_

Does an abend occur? If so, what are the abend and return codes? \_\_\_\_\_

Is a dump produced when the problem occurs? If so, what kind of dump is it? \_\_\_\_\_

Please try to be as accurate and complete as possible in answering these questions. Your problem can be resolved more quickly if a customer service representative has all of the pertinent information needed to find a solution.



## Appendix B JCL Parameters

This appendix describes each JCL parameter of the following PIE/CICS installation jobs:

- INSTALL
- DEFVSAM
- PIERDO

### INSTALL Job

<b>VOLSER</b>	Volume serial of the DASD volume that PIE/CICS datasets are copied to from the installation tape. Required parameter.
<b>DISTAPE</b>	Product tape volume serial number as specified in the <i>Release Notes</i> shipped with your PIE/CICS product tape. The default is PIETAP.
<b>DELETE</b>	Condition code checked by the DELETE step of the INSTALL job. If 4 is coded, all current PIE/CICS datasets are deleted and reallocated by the INSTALL job. If 0 is coded, no datasets are deleted. The default is 4: INSTALL deletes existing datasets and allocates new ones.
<b>DU</b>	Device unit of the PIE/CICS permanent datasets. The default is SYSALLDA.
<b>Q1</b>	High-level qualifier of PIE/CICS non-VSAM datasets. The default is PIE.
<b>Q2</b>	Mid-level qualifier of PIE/CICS non-VSAM datasets. The default is PC@330.
<b>SIZE</b>	Region size of the IEBCOPY step. The default is 512K.
<b>SOUT</b>	SYSOUT class for job output. The default is *.
<b>TEMP</b>	Temporary unit for the SYSUT4 IEBCOPY DD statements. The default is SYSALLDA Do not specify a VIO unit for these datasets because the IEBCOPY SYSUT4 temporary dataset must reside on a real disk.
<b>TQ1</b>	High-level qualifier of PIE/CICS products on this tape. Default is TSCPIE.
<b>TQ2</b>	Mid-level qualifier of PIE/CICS products on this tape. Default is PC@330.
<b>TU</b>	Unit name of the device that reads the PIE/CICS product tape. Default is TAPE.
<b>ASMBLR</b>	Name of the assembler program used to assemble PIE/CICS exits and other modules. For Assembler H users, this is normally IEV90. For standard Assembler users, this is IFOX00. The default is IEV90.
<b>CICSQ</b>	High-level qualifier of CICS library datasets. The default is SYS2.CICS410.

<b>CICSLOD</b>	Low-level qualifier of CICS load library.														
<b>CICSSRC</b>	Low-level qualifier of CICS source dataset.														
<b>CICSMAC</b>	Low-level qualifier of CICS MACLIB dataset.														
<b>CICSMTS</b>	Low-level qualifier of CICS MTS (SMP/Macro Temporary Store) dataset if you have applied maintenance to CICS but have not accepted it. If not, specify CICSMTS=MACLIB. The default is MTS.														
<b>SECURITY</b>	Name of the security system to verify CICS user sign on data. Valid values are: <table> <tr> <td>RACF</td> <td>Resource Access Control Facility (default)</td> </tr> <tr> <td>TOPS</td> <td>Top Secret</td> </tr> <tr> <td>ACF2</td> <td>ACF/2</td> </tr> <tr> <td>OMNI</td> <td>OMNIGUARD (for CICS 2.1 only)</td> </tr> <tr> <td>NONE</td> <td>No CICS security</td> </tr> <tr> <td>CICS</td> <td>Standard CICS security using DFHSEC macro</td> </tr> <tr> <td>SNP</td> <td>Standard CICS security using DFHSNP macro</td> </tr> </table> <p>Refer to <a href="#">"Chapter 6 Security" on page 73</a> of the <i>Customization Reference</i> for more information on security systems.</p>	RACF	Resource Access Control Facility (default)	TOPS	Top Secret	ACF2	ACF/2	OMNI	OMNIGUARD (for CICS 2.1 only)	NONE	No CICS security	CICS	Standard CICS security using DFHSEC macro	SNP	Standard CICS security using DFHSNP macro
RACF	Resource Access Control Facility (default)														
TOPS	Top Secret														
ACF2	ACF/2														
OMNI	OMNIGUARD (for CICS 2.1 only)														
NONE	No CICS security														
CICS	Standard CICS security using DFHSEC macro														
SNP	Standard CICS security using DFHSNP macro														
<b>SECMAC</b>	Full name of security system macro library if you use ACF2 or OMNIGUARD. The default is SYS1.MACLIB.														
<b>WORK</b>	UNIT class of temporary datasets. The default is VIO.														

## DEFVSAM Job

<b>Q1</b>	High-level qualifier of all PIE/CICS non-VSAM datasets. The default is PIE.
<b>Q2</b>	Mid-level qualifier of all PIE/CICS datasets. The default is PC@330.
<b>SIZE</b>	Region size of the IDCAMS job steps. The default is 1024k.
<b>SOUT</b>	SYSOUT class of job output. The default is *.
<b>VOLSER</b>	Volume serial number of the DASD volume that stores the VSAM cluster. Required parameter.



## PIERDO Job

<b>DFHCSD</b>	Name of the CICS RDO VSAM file to migrate the PIE/CICS PCT, PPT, and FCT entries. Required parameter.
<b>Q1</b>	High-level qualifier of PIE/CICS non-VSAM datasets. The default is PIE.
<b>Q2</b>	Mid-level qualifier of all PIE/CICS datasets. The default is PC@330.
<b>CICSQ</b>	High-level qualifier for the CICS datasets. The default is SYS2.CICS211.
<b>CICSMAC</b>	Low-level qualifier of CICS MACLIB.
<b>CICSMTS</b>	Low-level qualifier of the CICS MTS (SMP/Macro Temporary Store) dataset if you have applied maintenance to CICS but have not accepted it. If not, specify CICSMTS=MACLIB. The default is MTS.
<b>MACLIB</b>	Mid-level qualifier of the PIE/CICS macro library. The default is MACLIB.
<b>SIZE</b>	Region size to complete the IDCAMS job steps. The default is 1024k.
<b>SOUT</b>	SYSOUT class for job output. The default is *.
<b>ASMBLR</b>	Name of the assembler program to use. For Assembler H users, this is normally IEV90. For standard Assembler users, this is IFOX00. The default is IEV90.
<b>WORK</b>	Unit to store temporary datasets. The default is VIO.



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