Program Directory for

CICS Transaction Gateway for z/OS

V6.1.0

Program Number 5655-M69
FMID HCTG610

for Use with
z/OS

Document Date: November 2005

GI10-2587-01

Note!

Before using this information and the product it supports, be sure to read the general information under 7.0, “Notices” on page 21.

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Contents

Figures

1.0 Introduction

This Program Directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of CICS® Transaction Gateway. This publication refers to CICS® Transaction Gateway as CICS TG.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for CICS TG.
- 3.0, “Program Support” on page 5 describes the IBM support available for CICS TG.
- 4.0, “Program and Service Level Information” on page 6 lists the APARs (program level) and PTFs (service level) incorporated into CICS TG.
- 5.0, “Installation Requirements and Considerations” on page 7 identifies the resources and considerations required for installing and using CICS TG.
- 6.0, “Installation Instructions” on page 15 provides detailed installation instructions for CICS TG. It also describes the procedures for activating the functions of CICS TG, or refers to appropriate publications.

Before installing CICS TG, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that were supplied with this program in softcopy form as well as this Program Directory and then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 5 tells you how to find any updates to the information and procedures in this Program Directory.

CICS TG is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory is provided in softcopy form on the CBPDO tape which is identical to the hardcopy form provided with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for CICS TG are included on the CBPDO tape.

Do not use this Program Directory if you are installing CICS TG with a SystemPac or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the Program Directory as required.

1.1 CICS TG Description

CICS TG enables you to exploit your CICS applications in comprehensive and sophisticated J2EE and Web services solutions hosted on powerful application servers, such as WebSphere Application Server. Using Java Servlets or Enterprise JavaBeans (EJB) components, you can utilize the External Call Interface (ECI) provided by the CICS TG to allow access to CICS COMMAREA-based applications.

1.2 CICS TG FMIDs

CICS TG consists of the following FMIDs:

HCTG610

2.0 Program Materials

An IBM program is identified by a program number. The program number for CICS TG is 5655-M69.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature numbers, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature numbers, and are not required for the product to function.

The program announcement material describes the features supported by CICS TG. Ask your IBM representative for this information if you have not already received a copy.

2.1 Basic Machine-Readable Material

The distribution medium for this program is magnetic tape or downloadable files. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, “Installation Instructions” on page 15 for more information about how to install the program.

Information about the physical tape for the Basic Machine-Readable Materials for CICS TG can be found in the *CBPDO Memo To Users Extension*.

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for CICS TG.

2.3 Program Publications

The following sections identify the basic and optional publications for CICS TG.

2.3.1 Basic Program Publications

Publication for CICS TG can be found in the ctg61.doc.zip file.

Figure 1 (Page 1 of 2). Basic Material: Unlicensed Publications

Publication Title	Form Number
CICS® Transaction Gateway: z/OS Administration	SC34-6672
CICS® Transaction Gateway: Messages	SC34-6675
CICS® Transaction Gateway: Programming Guide	SC34-6673
CICS® Transaction Gateway: Programming Reference	SC34-6674

Figure 1 (Page 2 of 2). Basic Material: Unlicensed Publications	
Publication Title	**Form Number**
CICS® Transaction Gateway: V6.1 Publications CD	SK3T-6972-00

2.3.2 Optional Program Publications

No optional publications are provided for CICS TG.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for CICS TG.

2.5 Publications Useful During Installation

The publications listed in Figure 2 may be useful during the installation of CICS TG. To order copies, contact your IBM representative or visit the IBM Publications Center on the World Wide Web at: http://www.ibm.com/shop/publications/order

Figure 2. Publications Useful During Installation	
Publication Title	**Form Number**
IBM SMP/E for z/OS and OS/390 User's Guide	SA22-7773
IBM SMP/E for z/OS and OS/390 Commands	SA22-7771
IBM SMP/E for z/OS and OS/390 Reference	SA22-7772
IBM SMP/E for z/OS and OS/390 Messages, Codes, and Diagnosis	GA22-7770

3.0 Program Support

This section describes the IBM support available for CICS TG.

3.1 Program Services

Contact your IBM representative for specific information about available program services.

3.2 Preventive Service Planning

Before installing CICS TG, you should review the current Preventive Service Planning (PSP) information. If you obtained CICS TG as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO.

If the CBPDO for CICS TG is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

For program support, access the Software Support web site at http://www-3.ibm.com/software/support/

PSP Buckets are identified by UPGRADEs, which specify product levels, and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for CICS TG are:

Figure 3. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
CICSTG61	HCTG610	CICS TRANS GATEWAY

3.3 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent.

Figure 4 identifies the component IDs (COMPID) for CICS TG.

Figure 4. Component IDs

FMID	COMPID	Component Name	RETAIN Release
HCTG610	5655M6900	CICS TRANS GATEWAY	610

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of CICS TG. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs incorporated into the program.

4.1 Program Level Information

The following APAR fixes against previous releases of CICS TG have been incorporated into this release. They are listed by FMID.

HCTG600

PQ89886 SocketException in CICS TG protocol handler results in no more incoming connections being accepted.

PQ93250 CICS TG RRM name context not being generated with extended UOWs.

HCTG610

PK05952 CTGARM Abends 0C1 S0C1 if no sysprint DD statement is defined.

PK06162 INVALID_DATA_LENGTH error while running in local mode.

PK07825 CICS TG transactions use the wrong credentials in Websphere.

PK08303 CICS TG on z/OS shutdown command incorrect.

PK12245 CICS TG generated RRM_NAME has incorrect length

4.2 Service Level Information

No PTFs against this release of CICS TG have been incorporated into the product tape.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating CICS TG. The following terminology is used:

- *Driving system*: the system used to install the program.
- *Target system*: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install CICS TG.

5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

5.1.2 Programming Requirements

Figure 5. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
Any **one** of the following:	
5647-A01	OS/390 V2.10.0
5694-A01	z/OS V1.01.0 or later
5655-G44	IBM SMP/E for z/OS and OS/390 V3.02.0 or later

5.2 Target System Requirements

This section describes the environment of the target system required to install and use CICS TG.

CICS TG installs in the CICS (C150) SREL.

5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

5.2.2 Programming Requirements

5.2.2.1 Installation Requisites: An installation requisite is defined as a product that is required and **must** be present or one that is not required but **should** be present on the system for the successful installation of this product.

A mandatory installation requisite identifies products that are required, without exception, or this product **will not install** on your system. This includes products specified as PREs or REQs.

Figure 6. Mandatory Installation Requisites

Program Number	Product Name and Minimum VRM/Service Level
5694-A01	z/OS V1.4.0 or later

CICS TG has no conditional installation requisites.

5.2.2.2 Operational Requisites: An operational requisite is defined as a product that is required and **must** be present or a product that is not required but **should** be present on the system in order for this product to operate all or some of its functions.

A mandatory operational requisite identifies products that are required, without exception, or this product **will not operate** its basic function unless the requisite is met. This includes products specified as PREs or REQs.

Figure 7 (Page 1 of 2). Mandatory Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level
5655-I56	IBM SDK for z/OS, Java 2 Technology Edition, V1.4.2 SR2 (APAR PK07987) or later
Any **one** of the following:	
5655-147	CICS Transaction Server for OS/390 V1.3 (with APARs PQ30168 and PQ38644)

Figure 7 (Page 2 of 2). Mandatory Operational Requisites	
Program Number	**Product Name and Minimum VRM/Service Level**
5697-E93	CICS Transaction Server V2.2 or later
5655-M15	CICS Transaction Server V3.1

A conditional operational requisite identifies products that are **not required** for the basic function but are needed at run time for this product to utilize specific functions. They may include products specified as IF REQs.

Figure 8. Conditional Operational Requisites	
Program Number	**Product Name and Minimum VRM/Service Level**
5697-E93	CICS Transaction Server V2.2 or later (with APAR PQ92943)

5.2.2.3 Toleration/Coexistence Requisites:

A toleration/coexistence requisite is defined as a product which must be present on a sharing system. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD at different time intervals.

CICS TG has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites:

A negative requisite identifies products which must *not* be installed on the same system as this product.

CICS TG has no negative requisites.

5.2.3 DASD Storage Requirements

CICS TG libraries can reside on all supported DASD types.

Figure 9 lists the total space required for each type of library.

Figure 9. Total DASD Space Required by CICS TG	
Library Type	**Total Space Required**
Target	60 tracks
Distribution	2700 tracks
HFS	125 cylinders

Notes:

1. IBM recommends use of system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a block size of 32760, which is the most efficient from a performance and DASD utilization perspective.
2. Abbreviations used for the data set type are:

   U Unique data set, allocated by this product and used only by this product. To determine the correct storage needed for this data set, this table provides all required information; no other tables (or Program Directories) need to be referenced for the data set size.

   S Shared data set, allocated by this product and used by this product and others. To determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other Program Directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

   E Existing shared data set, used by this product and others. This data set is NOT allocated by this product. To determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). This existing data set must have enough free space to accommodate the storage size given in this table.

   If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

   For more information on the names and sizes of the required data sets, please refer to 6.1.7, “Allocate SMP/E Target and Distribution Libraries” on page 18.
3. Abbreviations used for the HFS Path type are:

   N New path, created by this product.
   X Path created by this product, but may already exist from a previous release.
   P Previously existing path, created by another product.
4. All target and distribution libraries listed have the following attributes:

   - The default name of the data set may be changed.
   - The default block size of the data set may be changed.
   - The data set may be merged with another data set that has equivalent characteristics.
   - The data set may be either a PDS or a PDSE.
5. All target libraries listed have the following attributes:

   - The data set may be SMS-managed.
   - It is not required for the data set to be SMS-managed.
   - It is not required for the data set to reside on the IPL volume.
   - The values in the "Member Type" column are not necessarily the actual SMP/E element types identified in the SMPMCS.
6. All target libraries listed which contain load modules have the following attributes:

   - The data set may be in the LPA.

- It is not required for the data set to be in the LPA.
- The data set may be in the LNKLST.
- It is not required for the data set to be APF-authorized.

The following figures describe the target and distribution libraries and HFS paths required to install CICS TG. The storage requirements of CICS TG must be added to the storage required by other programs having data in the same library or path.

Note: The data in these tables should be used when determining which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

Figure 10. Storage Requirements for CICS TG Target Libraries

Library DDNAME	Member Type	Target Volume	TYPE	ORG	RECFM	LRECL	No. of 3390 Trks	No. of DIR Blks
SCTGINST	SAMP	ANY	U	PDS	FB	80	6	2
SCTGSAMP	SAMP	ANY	U	PDS	FB	80	2	2
SCTGAUTH	LMOD	ANY	U	PDS/E	U	0	5	NA
SCTGLINK	LMOD	ANY	U	PDS	U	0	1	1
SCTGLOAD	LMOD	ANY	U	PDS/E	U	0	42	NA

Note: In the below table, "@ussdir@" is the variable substituted in the CTGISMKD install job. In addition, if the optional variable "@pathprefix@" was defined in that job, all of the above paths will contain the specified prefix.

Figure 11 (Page 1 of 2). CICS TG HFS Paths

DDNAME	TYPE	Path Name
SCTGH001	N	usr/lpp/cicstg/@ussdir@/classes/IBM
SCTGH002	N	usr/lpp/cicstg/@ussdir@/bin/resource/html_ko/IBM
SCTGH003	N	usr/lpp/cicstg/@ussdir@/bin/resource/html/IBM
SCTGH004	N	usr/lpp/cicstg/@ussdir@/bin/resource/html_tr/IBM
SCTGH005	N	usr/lpp/cicstg/@ussdir@/bin/resource/html_ja/IBM
SCTGH006	N	usr/lpp/cicstg/@ussdir@/bin/resource/html_it/IBM
SCTGH007	N	usr/lpp/cicstg/@ussdir@/bin/resource/html_fr/IBM
SCTGH008	N	usr/lpp/cicstg/@ussdir@/bin/resource/html_es/IBM

Figure 11 (Page 2 of 2). CICS TG HFS Paths

DDNAME	TYPE	Path Name
SCTGH009	N	usr/lpp/cicstg/@ussdir@/bin/resource/html_de/IBM
SCTGH010	N	usr/lpp/cicstg/@ussdir@/bin/resource/html_zh/IBM
SCTGH011	N	usr/lpp/cicstg/@ussdir@/bin/resource/IBM
SCTGH012	N	usr/lpp/cicstg/@ussdir@/docs/IBM
SCTGH013	N	usr/lpp/cicstg/@ussdir@/deployable/IBM
SCTGH014	N	usr/lpp/cicstg/@ussdir@/msgs/IBM
SCTGH015	N	usr/lpp/cicstg/@ussdir@/license/IBM
SCTGH016	N	usr/lpp/cicstg/@ussdir@/IBM
SCTGH017	N	usr/lpp/cicstg/@ussdir@/bin/IBM
SCTGH018	N	usr/lpp/cicstg/@ussdir@/samples/IBM
SCTGH019	N	usr/lpp/cicstg/@ussdir@/ctgzoscfg/IBM
SCTGH020	N	usr/lpp/cicstg/@ussdir@/samples/server/IBM
SCTGH021	N	usr/lpp/cicstg/@ussdir@/samples/java/com/ibm/ctg/samples/security/IBM
SCTGH022	N	usr/lpp/cicstg/@ussdir@/samples/java/com/ibm/ctg/samples/eci/IBM
SCTGH023	N	usr/lpp/cicstg/@ussdir@/samples/java/com/ibm/ctg/samples/j2ee/IBM

Figure 12 (Page 1 of 2). Storage Requirements for CICS TG Distribution Libraries

Library DDNAME	TYPE	ORG	RECFM	LRECL	No. of 3390 Trks	No. of DIR Blks
ACTGH001	U	PDS	V	32000	88	2
ACTGH002	U	PDS	V	32000	5	2
ACTGH003	U	PDS	V	32000	5	2
ACTGH004	U	PDS	V	32000	6	2
ACTGH005	U	PDS	V	32000	6	2
ACTGH006	U	PDS	V	32000	6	2
ACTGH007	U	PDS	V	32000	6	2

Figure 12 (Page 2 of 2). Storage Requirements for CICS TG Distribution Libraries

Library DDNAME	TYPE	ORG	RECFM	LRECL	No. of 3390 Trks	No. of DIR Blks
ACTGH008	U	PDS	V	32000	6	2
ACTGH009	U	PDS	V	32000	6	2
ACTGH010	U	PDS	V	32000	5	2
ACTGH011	U	PDS	V	32000	42	4
ACTGH012	U	PDS	V	32000	577	2
ACTGH013	U	PDS	V	32000	86	3
ACTGH014	U	PDS	V	32000	14	3
ACTGH015	U	PDS	V	32000	2	2
ACTGH016	U	PDS	V	32000	62	2
ACTGH017	U	PDS	V	32000	2	2
ACTGH018	U	PDS	V	32000	1802	2
ACTGH019	U	PDS	V	32000	2	2
ACTGH020	U	PDS	V	32000	2	2
ACTGH021	U	PDS	V	32000	3	2
ACTGH022	U	PDS	V	32000	2	2
ACTGH023	U	PDS	V	32000	2	2
ACTGINST	U	PDS	FB	80	6	2
ACTGMOD	U	PDS/E	U	0	16	NA
ACTGSAMP	U	PDS	FB	80	2	2

5.3 FMIDs Deleted

Installing CICS TG may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS.

If you do not wish to delete these FMIDs at this time, you must install CICS TG into separate SMP/E target and distribution zones.

Note: These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.

5.4 Special Considerations

CICS TG has no special considerations for the target system.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of CICS TG.

Please note the following:

- To install CICS TG into its own SMP/E environment, run all the sample jobs provided.
- To install CICS TG into an existing SMP/E environment,run all the sample jobs except CTGSMPSU.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing CICS TG

6.1.1 SMP/E Considerations for Installing CICS TG

This release of CICS TG is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 13. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

Figure 13. SMP/E Options Subentry Values

SUB-ENTRY	Value	Comment
DSSPACE	(1502,150,3)	
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 SMP/E CALLLIBS and SIDE DECK PROCESSING

CICS TG uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When CICS TG is installed, ensure that DDDEFs exist for the following libraries:

- SCEECPP
- SCEEOBJ
- SCEELKEX

- SCEELKED
- CSSLIB

CICS TG also uses Side Deck processing during link edits. When CICS TG is installed, ensure that the DDDEFs exist for the following libraries:

- SCLBSID

Note: The DDDEFs above are used only to resolve the link-edit for CICS TG using CALLLIBS and SIDE DECK processing. These data sets are not updated during the installation of CICS TG.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install CICS TG:

Figure 14. Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
CTGSMPSU	ZONES	Sample job to create new SMP/E zones (see note below)	IBM.HCTG610.F2
CTGRECV	RECEIVE	Sample RECEIVE job	IBM.HCTG610.F2
CTGALLOC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HCTG610.F2
CTGIHFS0	HFS	Sample job to create the HFS and mountpoint for CICS TG	IBM.HCTG610.F2
CTGIHFS1	HFS	Sample job to create the HFS and mountpoint for this instance of CICS TG	IBM.HCTG610.F2
CTGISMKD	MKDIR	Sample job to invoke the supplied CTGMKDIR EXEC to allocate HFS paths	IBM.HCTG610.F2
CTGDDDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HCTG610.F2
CTGAPPLY	APPLY	Sample APPLY job	IBM.HCTG610.F2
CTGACCPT	ACCEPT	Sample ACCEPT job	IBM.HCTG610.F2

Note: Run job CTGSMPSU only if you are installing into a new SMP/E zone.

You can access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 14 to find the appropriate relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1    EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN   DD DSN=IBM.HCTG610.F2,UNIT=tunit,
//         VOL=SER=volser,LABEL=(x,SL),
//         DISP=(OLD,KEEP)
//FILEIN   DD DSN=IBM.HCTG610.F2,UNIT=SYSALLDA,DISP=SHR,
//         VOL=SER=filevol
//OUT      DD DSNAME=jcl-library-name,
//         DISP=(NEW,CATLG,DELETE),
//         VOL=SER=dasdvol,UNIT=SYSALLDA,
//         SPACE=(TRK,(6,1,4))
//SYSUT3   DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN    DD *
    COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.HCTG610.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.5 Create SMP/E zones

Edit and submit the sample job CTGSMPSU to create the SMP/E environment for CICS TG. Do NOT run this job if installing into an existing SMP/E environment.

Expected Return Codes and Messages: 0

6.1.6 Perform SMP/E RECEIVE

Having obtained CICS TG as part of a CBPDO, use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the CICS TG FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

You can also choose to edit and submit sample job CTGRECV to perform the SMP/E RECEIVE for CICS TG. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.7 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job CTGALLOC to allocate the SMP/E target and distribution libraries for CICS TG. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.8 Create HFS and Mountpoint

Edit and submit sample job CTGIHFS0 to create the HFS and Mountpoint for CICS TG. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.9 Create HFS and Mountpoint (contd.)

Edit and submit sample job CTGIHFS1 to create the HFS and Mountpoint for CICS TG. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.10 Allocate HFS Paths

Edit and submit sample job CTGISMKD to allocate the HFS paths for CICS TG. Consult the instructions in the sample job for more information.

If you plan to create a new HFS for this product, you should consider updating the BPXPRMxx PARMLIB member to mount the new HFS at IPL time. This may be helpful if an IPL occurs before the installation is complete.

Expected Return Codes and Messages: 0

6.1.11 Create DDDEF Entries

Edit and submit sample job CTGDDDEF to create DDDEF entries for the SMP/E target and distribution libraries for CICS TG. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

6.1.12 Perform SMP/E APPLY

Edit and submit sample job CTGAPPLY to perform an SMP/E APPLY CHECK for CICS TG. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Once you have taken any actions indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

Note: The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages from APPLY CHECK: 0

Expected Return Codes and Messages from APPLY: 0

6.1.13 Perform SMP/E ACCEPT

Edit and submit sample job CTGACCPT to perform an SMP/E ACCEPT CHECK for CICS TG. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

Once you have taken any actions indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Note: The GROUPEXTEND operand indicates that SMP/E accept all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages from ACCEPT CHECK: 0

If PTFs containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will linkedit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder may issue messages documenting unresolved external references, resulting in a return code of 4 from the

ACCEPT step. These messages can be ignored, because the distribution libraries are not executable and the unresolved external references will not affect the executable system libraries.

Expected Return Codes and Messages from ACCEPT: 0

6.1.14 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command will identify requisites defined for products that have been installed in separate zones. This command will also create APPLY and ACCEPT commands in the SMPPUNCH data set which you can use to install those cross-zone requisites it identifies.

After you have installed CICS TG, it is recommended that you run REPORT CROSSZONE against the new or updated target and distribution zones. REPORT CROSSZONE requires a global zone with ZONEINDEX entries describing all the target and distribution libraries to be reported on.

For more information on REPORT CROSSZONE, see the SMP/E manuals.

6.2 Activating CICS TG

The publication *CICS TG: z/OS Administration, SC34-6672* contains the step-by-step procedures to activate the functions of CICS TG.

7.0 Notices

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Contents of Program Directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of Program Directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
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