



**Program Directory for
IBM CICS Online Transmission Time
Optimizer for z/OS**

1 Release 1, Modification Level 00

Program Number 5655-I05

FMID HOTO110

for Use with
z/OS

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G110-2549-00

Note!

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

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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 Online Transmission Time Optimizer. This publication refers to CICS Online Transmission Time Optimizer as CICS OTTO. You should read all of this program directory before installing the program and then keep it for future reference.

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 OTTO.
- 3.0, "Program Support" on page 6 describes the IBM support available for CICS OTTO.
- 4.0, "Program and Service Level Information" on page 7 lists the APARs (program level) and PTFs (service level) incorporated into CICS OTTO.
- 5.0, "Installation Requirements and Considerations" on page 8 identifies the resources and considerations for installing and using CICS OTTO.
- 6.0, "Installation Instructions" on page 13 provides detailed installation instructions for CICS OTTO. It also describes the procedures for activating the functions of CICS OTTO, or refers to appropriate publications.

Before installing CICS OTTO, read 3.2, "Preventive Service Planning" on page 6. This section tells you how to find any updates to the information and procedures in this program directory.

Do not use this program directory if you are installing CICS OTTO 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.

If you are installing CICS OTTO using the Custom-Built Product Delivery Offering (CBPDO, 5751-CS3), a softcopy program directory is provided on the CBPDO tape which is identical to the printed copy shipped with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for CICS OTTO are included on the CBPDO tape.

1.1 CICS OTTO Description

CICS OTTO is a data compression and optimization tool that enables more efficient network usage by 3270 data stream devices and emulators.

1.2 CICS OTTO FMIDs

CICS OTTO consists of the following FMIDs:

HOTO110

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for CICS OTTO is 5655-I05.

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

The program announcement material describes the features supported by CICS OTTO. 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 13 for more information about how to install the program.

Figure 1 describes the physical tape. Figure 2 describes the file content.

Notes:

1. The data set attributes in these tables should be used in the JCL of jobs reading the data sets, but since the data sets are in IEBCOPY unloaded format, their actual attributes may be different.
2. If you are installing CICS OTTO using the Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), some of the information in these figures may not be valid. Consult the CBPDO documentation for actual values.
3. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

<i>Figure 1. Basic Material: Program Tape</i>						
Medium	Feature Number	Physical Volume	External Label	R/M *	VOLSER	
3480	5802	1	CICS OTTO	N	OTO110	

* R/M = Restricted Materials of IBM

Figure 2. Program File Content

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	27920
IBM.HOTO110.F1(JCLIN)	PO	FB	80	27920
IBM.HOTO110.F2(AABLINST)	PO	FB	80	8880
IBM.HOTO110.F3(AABLCOBJ)	PO	U	0	6144
IBM.HOTO110.F4(AABLCCVI)	PO	VB	1204	27998
IBM.HOTO110.F5(AABLCMVI)	PO	VB	32016	32020
IBM.HOTO110.F6(AABLCSRC)	PO	FB	80	27920

2.2 Optional Machine-Readable Material

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

2.3 Program Publications

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

2.3.1 Basic Program Publications

Figure 3 identifies the basic unlicensed program publications for CICS OTTO. One copy of each of these publications is included when you order the basic materials for CICS OTTO. For additional copies, contact your IBM representative.

Figure 3. Basic Material: Unlicensed Publications

Publication Title	Form Number
CICS Online Transmission Time Optimizer User's Guide	SC34-6104
CICS Online Transmission Time Optimizer Menu Guide	SC34-6105
CICS Online Transmission Time Optimizer Messages	SC34-6106

2.3.2 Optional Program Publications

No optional publications are provided for CICS OTTO.

2.4 Program Source Materials

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

2.5 Publications Useful During Installation

The publications listed in Figure 4 may be useful during the installation of CICS OTTO. To order copies, contact your IBM representative or visit the IBM Publications Center at <http://www.elink.ibm.link.ibm.com/applications/public/applications/publications/cgibin/pbi.cgi> on the Internet.

<i>Figure 4. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>IBM SMP/E for z/OS and OS/390 User's Guide</i>	SA22-7773
<i>IBM SMP/E for z/OS and OS/390 Commands</i>	SA22-7771
<i>IBM SMP/E for z/OS and OS/390 Reference</i>	SA22-7772
<i>IBM SMP/E for z/OS and OS/390 Messages, Codes, and Diagnosis</i>	GA22-7770

3.0 Program Support

This section describes the IBM support available for CICS OTTO.

3.1 Program Services

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

3.2 Preventive Service Planning

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

If you obtained CICS OTTO on a product tape, or if the CBPDO 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 access to RETAIN, visit <http://webspinner.boulder.ibm.com/retain> on the Internet.

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 OTTO are:

UPGRADE	SUBSET	Description
CICSOTTO	HOTO110	CICS OTTO for z/OS

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 6 identifies the component IDs (COMPID) for CICS OTTO.

FMID	COMPID	Component Name	RETAIN Release
HOTO110	5655I0500	COMPNAME1.	110

4.0 Program and Service Level Information

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

4.1 Program Level Information

No APARs have been incorporated into CICS OTTO.

4.2 Service Level Information

No PTFs against this release of CICS OTTO 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 OTTO. 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 OTTO.

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 7. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
Any one of the following:	
5647-A01	OS/390 SMP/E Version 2 Release 06 or higher with PTF UR51068
5694-A01	z/OS Version 1 Release 1 or higher
5655-G44	IBM SMP/E for z/OS and OS/39 Version 3 Release 1 or higher

5.2 Target System Requirements

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

CICS OTTO 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 Mandatory Requisites: A mandatory requisite is defined as a product that is required without exception; this product either **will not install** or **will not function** unless this requisite is met. This includes products that are specified as REQs or PREs.

<i>Figure 8. Mandatory Requisites</i>	
Program Number	Product Name and Minimum VRM/Service Level
Any one of the following:	
5655-018	CICS/ESA Version 4.1 or
5655-147	CICS Transaction Server for OS/390 or
5697-E93	CICS Transaction Server for z/OS

5.2.2.2 Functional Requisites: A functional requisite is defined as a product that is **not** required for the successful installation of this product or for the basic function of the product, but **is** needed at run time for a specific function of this product to work. This includes products that are specified as IF REQs.

CICS OTTO has no functional requisites.

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 OTTO 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 OTTO has no negative requisites.

5.2.3 DASD Storage Requirements

CICS OTTO libraries can reside on all supported DASD types.

Figure 9 on page 10 lists the total space required for each type of library.

Library Type	Total Space Required
Target	93 blocks
Distribution	129 blocks

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 6.1.6, "Allocate SMP/E Target and Distribution Libraries" on page 15.

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 OTTO. The storage requirements of CICS OTTO 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 OTTO Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C O M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SABLCCVI	Data	ANY	U	PDS	VB	1204	1	1
SABLCMVI	Data	ANY	U	PDS	VB	32016	4	4
SABLCSRC	Data	ANY	U	PDS	FB	80	18	8
SABLINST	Sample	ANY	U	PDS	FB	80	2	1
SABLLOAD	LMOD	ANY	U	PDS	U	0	10	12

Figure 11. Storage Requirements for CICS OTTO Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
AABLCCVI	U	PDS	VB	1204	1	1
AABLCMVI	U	PDS	VB	32016	4	4
AABLCOBJ	U	PDS	U	0	14	4
AABLCSRC	U	PDS	FB	80	18	8
AABLINST	U	PDS	FB	80	2	1

5.3 FMIDs Deleted

Installing CICS OTTO 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 OTTO 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 OTTO 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 OTTO.

Please note the following:

- If you want to install CICS OTTO into its own SMP/E environment, a sample job (ABLCSI) is provided.
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones. Sample job ABLDDDEF is provided.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing CICS OTTO

6.1.1 SMP/E Considerations for Installing CICS OTTO

This release of CICS OTTO 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 12. 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.

<i>Figure 12. SMP/E Options Subentry Values</i>		
SUB-ENTRY	Value	Comment
DSSPACE	(50,50,20)	The space used to allocate RELFILE data sets.
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 Sample Jobs

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

Figure 13. Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
ABLRECEV	RECEIVE	Sample RECEIVE job	IBM.HOTO110.F2
ABLINFO	INFO	A README giving information on the sample jobs provided and which need to be run to make the product work.	IBM.HOTO110.F2
ABLALLOC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HOTO110.F2
ABLCSI	CSI	Sample job to allocate and initialize an SMP/E environment	IBM.HOTO110.F2
ABLDDDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HOTO110.F2
ABLAPPLY	APPLY	Sample APPLY job	IBM.HOTO110.F2
ABLACCP	ACCEPT	Sample ACCEPT job	IBM.HOTO110.F2

You may 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.HOTO110.F2,UNIT=tunit,VOL=SER=OTO110,
// LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.H274110.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,(5,1,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

where **tunit** is the unit value matching the product tape, **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, and XXXXIN on the SYSIN DD is either TAPEIN or FILEIN depending on your input DD statement.

You can also access the sample installation jobs by performing an SMP/E RECEIVE for FMID HOTO110, and then copying the jobs from data set hlq.HOTO110.F2 to a work data set for editing and submission.

Note: "hlq" is the high-level qualifier specified as the DSPREFIX value in the SMPTLIB DDDEF or the OPTIONS entry of the global zone.

6.1.4 SMP/E ZONE setup

Edit and submit sample job ABLCSI to create new and unique zones for CICS OTTO. Consult the instructions in the sample job for more information. CICS OTTO will work with several releases of CICS and therefore we would recommend using unique zones, however you may install into an existing CICS zone, in which case do not run ABLCSI.

Expected Return Codes and Messages: 0

6.1.5 Create DDDEF Entries

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

Expected Return Codes and Messages: 0

6.1.6 Allocate SMP/E Target and Distribution Libraries

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

Expected Return Codes and Messages: 0

6.1.7 Perform SMP/E RECEIVE

Edit and submit sample job ABLRECEV to perform the SMP/E RECEIVE for CICS OTTO. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: 0

NOTE: If you obtained CICS OTTO as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the CICS OTTO 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.

Expected Return Codes and Messages: 0

6.1.8 Perform SMP/E APPLY

Edit and submit sample job ABLAPPLY to perform an SMP/E APPLY CHECK for CICS OTTO. 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

6.1.9 Perform SMP/E ACCEPT

Edit and submit sample job ABLACCPY to perform an SMP/E ACCEPT CHECK for CICS OTTO. 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

Expected Return Codes and Messages from ACCEPT: 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.

6.2 Activating CICS OTTO

CICS OTTO needs some further VSAM files to be created, entries added to the CICS tables etc. The required steps are fully documented in ABLINFO, and samples provided for all steps that are necessary.

The publication *CICS Online Transmission Time Optimizer User's Guide, SC34-6104* contains the step-by-step procedures to activate the functions of CICS OTTO.

Reader's Comments

Program Directory for CICS Online Transmission Time Optimizer December 2001

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For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

RATING SCALE					
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1	2 3 4	5	N		

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
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
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

How did you order this product?

- CBPDO
- CustomPac
- ServerPac
- Independent
- Other

Is this the first time your organization has installed this product?

- Yes
- No

Were the people who did the installation experienced with the installation of z/OS products?

- Yes

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