



**Program Directory for  
IBM Application Time Control Facility for z/OS  
for z/OS Installation**

V2.8.6

Program Number 5697-N42

FMID HCIK286

for Use with  
z/OS

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**Note!**

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 19.

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# Contents

<b>1.0 Introduction</b>	1
1.1 Application Time Control Facility for z/OS Description	2
1.2 Application Time Control Facility for z/OS FMIDs	2
<b>2.0 Program Materials</b>	3
2.1 Basic Machine-Readable Material	3
2.2 Optional Machine-Readable Material	3
2.3 Program Publications	3
2.3.1 Optional Program Publications	4
2.4 Program Source Materials	4
2.5 Publications Useful During Installation	4
<b>3.0 Program Support</b>	5
3.1 Program Services	5
3.2 Preventive Service Planning	5
3.3 Statement of Support Procedures	6
<b>4.0 Program and Service Level Information</b>	7
4.1 Program Level Information	7
4.2 Service Level Information	7
<b>5.0 Installation Requirements and Considerations</b>	8
5.1 Driving System Requirements	8
5.1.1 Machine Requirements	8
5.1.2 Programming Requirements	8
5.2 Target System Requirements	9
5.2.1 Machine Requirements	9
5.2.2 Programming Requirements	9
5.2.2.1 Installation Requisites	9
5.2.2.2 Operational Requisites	9
5.2.2.3 Toleration/Coexistence Requisites	10
5.2.2.4 Incompatibility (Negative) Requisites	10
5.2.3 DASD Storage Requirements	10
5.3 FMIDs Deleted	13
5.4 Special Considerations	13
<b>6.0 Installation Instructions</b>	14
6.1 Installing Application Time Control Facility for z/OS	14
6.1.1 SMP/E Considerations for Installing Application Time Control Facility for z/OS	14
6.1.2 SMP/E Options Subentry Values	14
6.1.3 SMP/E CALLLIBS Processing	15
6.1.4 Sample Jobs	15

6.1.5 Perform SMP/E RECEIVE	16
6.1.6 Allocate SMP/E Target and Distribution Libraries	16
6.1.7 Create DDDEF Entries	16
6.1.8 Perform SMP/E APPLY	17
6.1.9 Perform SMP/E ACCEPT	17
6.2 Activating Application Time Control Facility for z/OS	18
<b>7.0 Notices</b>	<b>19</b>
7.1 Trademarks	20
<b>Contacting Customer Support</b>	<b>21</b>

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## Figures

1. Basic Material: Other Unlicensed or Licensed Publications	3
2. Publications Useful During Installation	4
3. PSP Upgrade and Subset ID	5
4. Component IDs	6
5. Driving System Software Requirements	8
6. Mandatory Installation Requisites	9
7. Total DASD Space Required by Application Time Control Facility for z/OS	10
8. Storage Requirements for Application Time Control Facility for z/OS Target Libraries	12
9. Storage Requirements for Application Time Control Facility for z/OS Distribution Libraries	12
10. SMP/E Options Subentry Values	14
11. Sample Installation Jobs	15

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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 IBM Application Time Control Facility for z/OS. This publication refers to IBM Application Time Control Facility for z/OS as Application Time Control Facility for z/OS.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic and optional program materials and documentation for Application Time Control Facility for z/OS.
- 3.0, "Program Support" on page 5 describes the IBM support available for Application Time Control Facility for z/OS.
- 4.0, "Program and Service Level Information" on page 7 lists the APARs (program level) and PTFs (service level) incorporated into Application Time Control Facility for z/OS.
- 5.0, "Installation Requirements and Considerations" on page 8 identifies the resources and considerations required for installing and using Application Time Control Facility for z/OS.
- 6.0, "Installation Instructions" on page 14 provides detailed installation instructions for Application Time Control Facility for z/OS. It also describes the procedures for activating the functions of Application Time Control Facility for z/OS, or refers to appropriate publications.

Before installing Application Time Control Facility for z/OS, 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.

Application Time Control Facility for z/OS 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 Application Time Control Facility for z/OS are included on the CBPDO tape.

Do not use this Program Directory if you are installing Application Time Control Facility for z/OS 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.

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## 1.1 Application Time Control Facility for z/OS Description

Application Time Control Facility for z/OS is a product formerly called Isogon TICTOC which was acquired through the acquisition of Isogon Corporation in 2005. Publication names and contents as well as installation and usage dialogs may refer to Application Time Control Facility for z/OS as TICTOC. For this first release of Application Time Control Facility for z/OS the names are interchangeable.

Application Time Control Facility for z/OS also known as TICTOC is widely recognized as the most advanced time-simulation testing tool in the industry. Application Time Control Facility for z/OS enables testing at the end-of-period, a week, month, quarter or year processing or simply testing across midnight or any other critical time period. A simple, online interface between Application Time Control Facility for z/OS and ISPF ensures that programmers can specify testing on individual development jobs or create a wildcard testing scenario across groups of programs. Application Time Control Facility for z/OS offers some of the most stringent security features, allowing managers to define which programmers receive access even down to specific job groups or classes. Minimal training is required to gain immediate benefits from Application Time Control Facility for z/OS, and the program is completely supported by a dedicated online help system.

FMID HCIK286 which is the topic of this publication installs the Application Time Control Facility for z/OS/MVS support. It allows you to test how z/OS applications will run with simulated dates.

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## 1.2 Application Time Control Facility for z/OS FMIDs

Application Time Control Facility for z/OS consists of the following FMIDs:

HCIK286

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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for Application Time Control Facility for z/OS is 5697-N42.

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 Application Time Control Facility for z/OS. Ask your IBM representative for this information if you have not already received a copy.

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### 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 14 for more information about how to install the program.

Information about the physical tape for the Basic Machine-Readable Materials for Application Time Control Facility for z/OS can be found in the *CBPDO Memo To Users Extension*.

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### 2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for Application Time Control Facility for z/OS.

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### 2.3 Program Publications

The following sections identify the basic and optional publications for Application Time Control Facility for z/OS.

Figure 1 identifies the basic unlicensed or licensed publications that are not available in hardcopy form, but are available through the internet or other media for Application Time Control Facility for z/OS.

<b>Publication Title</b>	<b>Form Number</b>	<b>How Available</b>
IBM Application Time Control Facility for z/OS Memo to Users w/ Key info	G111-4716	Provided in hardcopy with product package
IBM Application Time Facility for z/OS - CICS Installation and Customization Guide	SC31-6924	Available online only, see note below

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

Publication Title	Form Number	How Available
IBM Application Time Facility for z/OS - CICS Users' Guide	SC31-6925	Available online only, see note below
<b>Note:</b> The online publications are available at: <a href="http://www.ibm.com/software/awdtools/tictoc/library/">http://www.ibm.com/software/awdtools/tictoc/library/</a>		

The Application Time Control Facility for z/OS product manuals and all other Tivoli product manuals can be found at the Tivoli Information Center url listed below:  
<http://www.ibm.com/software/awdtools/tictoc/library/>

### 2.3.1 Optional Program Publications

No optional publications are provided for Application Time Control Facility for z/OS.

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## 2.4 Program Source Materials

No program source materials or viewable program listings are provided for Application Time Control Facility for z/OS.

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## 2.5 Publications Useful During Installation

The publications listed in Figure 2 may be useful during the installation of Application Time Control Facility for z/OS. 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



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## 3.0 Program Support

This section describes the IBM support available for Application Time Control Facility for z/OS.

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### 3.1 Program Services

Contact your IBM and/or Tivoli representative for specific information about available program services. You can find information in the "IBM Software Support Guide" at the following Web site:  
<http://www-3.ibm.com/software/sysmgmt/products/support/>.

The handbook provides information about how to contact Customer Support, depending on the severity of your problem, and the following information:

- Registration and eligibility
- Telephone numbers and e-mail addresses, depending on the country in which you are located
- What information you should gather before contact support

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### 3.2 Preventive Service Planning

Before installing Application Time Control Facility for z/OS, you should review the current Preventive Service Planning (PSP) information. If you obtained Application Time Control Facility for z/OS as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO.

If the CBPDO for Application Time Control Facility for z/OS 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 Application Time Control Facility for z/OS are:

<i>Figure 3. PSP Upgrade and Subset ID</i>		
<b>UPGRADE</b>	<b>SUBSET</b>	<b>Description</b>
APPTIMEFAC	HCIK286	Application Time Control Facility/MVS

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### 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 on page 6 identifies the component IDs (COMPID) for Application Time Control Facility for z/OS.

<i>Figure 4. Component IDs</i>			
<b>FMID</b>	<b>COMPID</b>	<b>Component Name</b>	<b>RETAIN Release</b>
HCIK286	5697N4200	Application Time Control Facility/MVS	286

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## **4.0 Program and Service Level Information**

This section identifies the program and any relevant service levels of Application Time Control Facility for z/OS. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs incorporated into the program.

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### **4.1 Program Level Information**

No APARs have been incorporated into Application Time Control Facility for z/OS.

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### **4.2 Service Level Information**

No PTFs against this release of Application Time Control Facility for z/OS have been incorporated into the product tape.

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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Application Time Control Facility for z/OS. 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.

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### 5.1 Driving System Requirements

This section describes the environment of the driving system required to install Application Time Control Facility for z/OS.

#### 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*

<b>Program Number</b>	<b>Product Name and Minimum VRM/Service Level</b>
The following:	
5694-A01	z/OS 1.4 or later

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## 5.2 Target System Requirements

This section describes the environment of the target system required to install and use Application Time Control Facility for z/OS.

Application Time Control Facility for z/OS installs in the z/OS (Z038) 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.

<i>Figure 6. Mandatory Installation Requisites</i>	
Program Number	Product Name and Minimum VRM/Service Level
The following:	
5694-A01	z/OS V1.04.0 or later

A conditional installation requisite identifies products that are **not** required for successful install but may resolve such things as certain warning messages at installation time. They include products that are specified as IF REQs.

Application Time Control Facility for z/OS 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.

Application Time Control Facility for z/OS has no mandatory operational requisites.

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.

Application Time Control Facility for z/OS has no conditional operational 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.

Application Time Control Facility for z/OS 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.

Application Time Control Facility for z/OS has no negative requisites.

## 5.2.3 DASD Storage Requirements

Application Time Control Facility for z/OS libraries can reside on all supported DASD types.

Figure 7 lists the total space required for each type of library.

<i>Figure 7. Total DASD Space Required by Application Time Control Facility for z/OS</i>	
<b>Library Type</b>	<b>Total Space Required</b>
Target	77 3390 Tracks
Distribution	77 3390 Tracks

#### 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 16.

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 LNKLIST.
- 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 Application Time Control Facility for z/OS. The storage requirements of Application Time Control Facility for z/OS 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 8. Storage Requirements for Application Time Control Facility for z/OS Target Libraries*

Library DDNAME	Member Type	Target Volume	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
SCIKINST	Sample	ANY	S	PDS	FB	80	5	5
SCIKSAMP	Sample	ANY	U	PDS	FB	80	5	10
SCIKMLIB	Panel	ANY	U	PDS	FB	80	5	5
SCIKPLIB	Panel	ANY	U	PDS	FB	80	15	40
SCIKSLIB	Skel.	ANY	U	PDS	FB	80	2	3
SCIKLOAD	LMOD	ANY	S	PDS	U	0	30	50
SCIKMAC	Macro	ANY	S	PDS	FB	80	5	5
SCIKSRVC	Sample	ANY	S	PDS	FB	80	10	20

**Note:**

- Target library SCIKSAMP corresponds the former Isogon dataset name of INSTALL.
- Target library SCIKMLIB corresponds the former Isogon dataset name of ISPMLIB.
- Target library SCIKPLIB corresponds the former Isogon dataset name of ISPPLIB.
- Target library SCIKSLIB corresponds the former Isogon dataset name of ISPSLIB.
- Target library SCIKLOAD corresponds the former Isogon dataset name of LOADLIB.
- Target library SCIKMAC corresponds the former Isogon dataset name of MACLIB.
- Target library SCIKSRVC corresponds the former Isogon dataset name of PMRLIB.

Some of the datasets in Application Time Control Facility for z/OS FMID HCIK286 are also used for Application Time Control Facility for z/OS FMID HCIK28C. Installation for HCIK28C is described in G111-6457 IBM Application Time Control Facility for z/OS Program Directory for CICS Installation.

*Figure 9 (Page 1 of 2). Storage Requirements for Application Time Control Facility for z/OS 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
ACIKINST	S	PDS	FB	80	5	5
ACIKSAMP	U	PDS	FB	80	5	10
ACIKMLIB	U	PDS	FB	80	5	5
ACIKPLIB	U	PDS	FB	80	15	40



Figure 9 (Page 2 of 2). Storage Requirements for Application Time Control Facility for z/OS 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
ACIKSLIB	U	PDS	FB	80	2	3
ACIKLOAD	S	PDS	U	0	30	50
ACIKMAC	S	PDS	FB	80	5	5
ACIKSRVC	S	PDS	FB	80	10	20
<b>Note:</b>						
Some of the datasets in Application Time Control Facility for z/OS FMID HCIK286 are also used for Application Time Control Facility for z/OS FMID HCIK28C. Installation for HCIK28C is described in G111-6457 IBM Application Time Control Facility for z/OS Program Directory for CICS Installation.						

### 5.3 FMIDs Deleted

Installing Application Time Control Facility for z/OS 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 Application Time Control Facility for z/OS 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

Application Time Control Facility for z/OS has no special considerations for the target system.

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## 6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of Application Time Control Facility for z/OS.

Please note the following:

- If you want to install Application Time Control Facility for z/OS into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets. Additionally, to assist you in doing this, IBM has provided samples to help you create an SMP/E environment at the following url:  
**<http://www-1.ibm.com/support/docview.wss?rs=660&context=SSZJDU&uid=swg21066230>**
- 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.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

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### 6.1 Installing Application Time Control Facility for z/OS

#### 6.1.1 SMP/E Considerations for Installing Application Time Control Facility for z/OS

This release of Application Time Control Facility for z/OS 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 10. 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 10. SMP/E Options Subentry Values*

SUB-ENTRY	Value	Comment
DSSPACE	20,50,20	use 20 directory blocks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

### 6.1.3 SMP/E CALLLIBS Processing

Application Time Control Facility for z/OS does not use the CALLLIBS function provided by SMP/E.

### 6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install Application Time Control Facility for z/OS:

<i>Figure 11. Sample Installation Jobs</i>			
Job Name	Job Type	Description	RELFILE
CIKJRECV	RECEIVE	Sample RECEIVE job	IBM.HCIK286.F1
CIKJALLO	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HCIK286.F1
CIKJDDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HCIK286.F1
CIKJAPP	APPLY	Sample APPLY job	IBM.HCIK286.F1
CIKJACC	ACCEPT	Sample ACCEPT job	IBM.HCIK286.F1

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 11 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.HCIK286.F1,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.HCIK286.F1,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jc1-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(5,1,3))
//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.HCIK286.F1 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 Perform SMP/E RECEIVE

Having obtained Application Time Control Facility for z/OS as part of a CBPDO, use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the Application Time Control Facility for z/OS 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 CIKJRECV to perform the SMP/E RECEIVE for Application Time Control Facility for z/OS. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** The job is considered successful if a return code of 0 is received.

### 6.1.6 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job CIKJALLO to allocate the SMP/E target and distribution libraries for Application Time Control Facility for z/OS. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** The job is considered successful if a return code of 0 is received.

### 6.1.7 Create DDDEF Entries

Edit and submit sample job CIKJDDDF to create DDDEF entries for the SMP/E target and distribution libraries for Application Time Control Facility for z/OS. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** The job is considered successful if a return code of 0 is received.

## 6.1.8 Perform SMP/E APPLY

Edit and submit sample job CIKJAPP to perform an SMP/E APPLY CHECK for Application Time Control Facility for z/OS. 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:** The job is considered successful if a return code of 0 is received.

**Expected Return Codes and Messages from APPLY:** The job is considered successful if a return code of 0 is received.

## 6.1.9 Perform SMP/E ACCEPT

Edit and submit sample job CIKJACC to perform an SMP/E ACCEPT CHECK for Application Time Control Facility for z/OS. 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:** The job is considered successful if a return code of 0 is received.

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:** The job is considered successful if a return code of 0 is received.

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

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## 6.2 Activating Application Time Control Facility for z/OS

To make Application Time Control Facility for z/OS fully operational after the SMP/E installation, post SMP/E work needs to be done. Instructions can be found in the publication named IBM Application Time Facility for z/OS - CICS Installation and Customization Guide (SC31-6924). It can be found online at: <http://www.ibm.com/software/awdtools/tictoc/library/>.

Because of the JCL jobs used, and SMP/E installation completed, some of the original ISOGON installation instructions can be skipped. Starting in chapter I of the book (IBM Application Time Facility for z/OS - Installation and Customization Guide), installation steps are described. Below is copy of this list and information describing if this step needs to be executed or not.

1. Allocate and Load the TICTOC/MVS INSTALL Library. This step is NOT needed.
2. Allocate the remaining TICTOC/MVS Libraries. This step is NOT needed.
3. Load the remaining TICTOC/MVS Libraries. This step is NOT needed.
4. Apply Program Modification Requests. This step is optional. You can get PTF's through IBM for the same Program Modification Requests. The Program Modification Requests are found in dataset SCIKSRVC. If you choose to apply the Program Modification Requests please do this before applying any IBM supplied PTF's since the PTF's may have a newer level of code. The Program Modification Requests are provided as a convenience to you.
5. Steps 5 through 11 must be done.

Once you have completed the steps in the documentation, you're ready to move on and test out your installation.

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