



**Program Directory for  
IBM Software Configuration and Library  
Manager (SCLM) Developer Toolkit**

V01.01.00

Program Number 5655-M99

FMIDs HSD1110 HWJ9133

for Use with  
z/OS

Document Date: July 2005

GI10-3352-00

**Note!**

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 28.

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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 Software Configuration and Library Manager (SCLM) Developer Toolkit. This publication refers to IBM Software Configuration and Library Manager (SCLM) Developer Toolkit as IBM SCLM Developer Toolkit.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic and optional program materials and documentation for IBM SCLM Developer Toolkit.
- 3.0, "Program Support" on page 6 describes the IBM support available for IBM SCLM Developer Toolkit.
- 4.0, "Program and Service Level Information" on page 8 lists the APARs (program level) and PTFs (service level) incorporated into IBM SCLM Developer Toolkit.
- 5.0, "Installation Requirements and Considerations" on page 9 identifies the resources and considerations required for installing and using IBM SCLM Developer Toolkit.
- 6.0, "Installation Instructions" on page 17 provides detailed installation instructions for IBM SCLM Developer Toolkit. It also describes the procedures for activating the functions of IBM SCLM Developer Toolkit, or refers to appropriate publications.

Before installing IBM SCLM Developer Toolkit, 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 6 tells you how to find any updates to the information and procedures in this Program Directory.

IBM SCLM Developer Toolkit 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 IBM SCLM Developer Toolkit are included on the CBPDO tape.

Do not use this Program Directory if you are installing IBM SCLM Developer Toolkit 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 IBM SCLM Developer Toolkit Description

**IBM SCLM Developer Toolkit** SCLM Developer Toolkit combines Eclipse-based plug-ins and SCLM functions to provide software configuration management (SCM) services for Eclipse-based development environments. IBM SCLM Developer Toolkit will install as a plug-in into any existing Eclipse 2.1 or later product, such as Rational Application Developer for WebSphere Software (formally known as WebSphere Studio Application Developer) or WebSphere Developer for zSeries (formally known as WebSphere Studio Enterprise Developer). If a compatible Eclipse-based product does not already exist, then IBM SCLM Developer Toolkit will install its own IBM Eclipse workbench.

IBM SCLM Developer Toolkit extends the currently available WSED/SCLM interface to provide a functionally rich workstation-based portal to SCLM. SCLM Developer View in the IBM SCLM Developer Toolkit provides access to SCLM projects and members and SCLM functions and services from the IBM Eclipse environment. In addition, IBM SCLM Developer Toolkit supports the development of Java and J2EE applications with deployment to WebSphere Application Server for z/OS using the existing IBM Eclipse/WebSphere tooling, with storage and management of those components via SCLM on z/OS.

IBM SCLM Developer Toolkit provides a powerful, SCLM based solution for managing the modernization of traditional z/OS applications, including mixed applications containing both traditional and J2EE object types.

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## 1.2 IBM SCLM Developer Toolkit FMIDs

IBM SCLM Developer Toolkit consists of the following FMIDs:

HSD1110 SCLM Developer Toolkit V01.01.00  
HWJ9133 REXX Alternate Library

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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for IBM SCLM Developer Toolkit is 5655-M99.

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 IBM SCLM Developer Toolkit. 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 17 for more information about how to install the program.

**NOTE!**

If IBM SCLM Developer Toolkit was shipped to you in a CBPDO, you will need to reference the CBPDO Memo To Users Extension for the physical tape layout of the Basic Machine-Readable Materials.

Figure 1 describes the program file content for IBM SCLM Developer Toolkit.

*Figure 1 (Page 1 of 2). Program File Content*

<b>Name</b>	<b>O R G</b>	<b>R E C F M</b>	<b>L R E C L</b>	<b>BLK SIZE</b>
SMPMCS	SEQ	FB	80	8800
IBM.HSD1110.F1	PDSE	FB	80	8800
IBM.HSD1110.F2	PDSE	VB	256	8800
IBM.HSD1110.F3	PDSE	U	0	6144
IBM.HSD1110.F4	PDSE	VB	256	8800
IBM.HSD1110.F5	PDSE	FB	80	8800
IBM.HWJ9133.F1	PDS	FB	80	8800
IBM.HWJ9133.F2	PDS	FB	80	8800

Figure 1 (Page 2 of 2). Program File Content

Name	O R G	R E C F M	L R E C L	BLK SIZE
IBM.HWJ9133.F3	PDS	U	0	6144
IBM.HWJ9133.F4	PDS	VB	255	8800

## 2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IBM SCLM Developer Toolkit.

## 2.3 Program Publications

The following sections identify the basic and optional publications for IBM SCLM Developer Toolkit.

### 2.3.1 Basic Program Publications

Figure 2 identifies the basic unlicensed program publications for IBM SCLM Developer Toolkit. One copy of each of these publications is included when you order the basic materials for IBM SCLM Developer Toolkit. For additional copies, contact your IBM representative.

Figure 2. Basic Material: Unlicensed Publications

Publication Title	Form Number
IBM SCLM Developer Toolkit License information	GC31-6873

Figure 3 identifies the basic unlicensed or licensed publications that are not available in hardcopy form, but are available through the internet or other media for IBM SCLM Developer Toolkit.

Figure 3. Basic Material: Other Unlicensed or Licensed Publications

Publication Title	Form Number	How Available
IBM SCLM Developer Toolkit Installation and Customization Guide	SC31-6899	<a href="http://www.ibm.com/software/awdtools/sclmsuite/devtoolkit/library">http://www.ibm.com/software/awdtools/sclmsuite/devtoolkit/library</a>



## 2.3.2 Optional Program Publications

No optional publications are provided for IBM SCLM Developer Toolkit.

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## 2.4 Program Source Materials

No program source materials or viewable program listings are provided for IBM SCLM Developer Toolkit.

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## 2.5 Publications Useful During Installation

The publications listed in Figure 4 may be useful during the installation of IBM SCLM Developer Toolkit. 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>

<i>Figure 4. Publications Useful During Installation</i>	
<b>Publication Title</b>	<b>Form Number</b>
<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

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## 3.0 Program Support

This section describes the IBM support available for IBM SCLM Developer Toolkit.

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### 3.1 Program Services

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

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### 3.2 Preventive Service Planning

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

If the CBPDO for IBM SCLM Developer Toolkit 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" or obtain the current PSP from the web at <https://techsupport.services.ibm.com/server/390.psp390>

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 IBM SCLM Developer Toolkit are:

<b>UPGRADE</b>	<b>SUBSET</b>	<b>Description</b>
SCLMDEVTK	HSD1110	SCLM Developer Toolkit
REXXC370R130	HWJ9133	REXX Alternate Lib. ENU

**Note:** IBM SCLM Developer Toolkit requires that the REXX library or the REXX Alternate library in the execution environment. The REXX Alternate Library is supplied with IBM SCLM Developer Toolkit. See 6.1.5, "When to Install The REXX Alternate Library" on page 20 for information about when you need to install the REXX Alternate Library as part of this install.

For additional Service related information, visit <http://www.ibm.com/software/awdtools/sclmsuite/devtoolkit/support>

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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 6 identifies the component IDs (COMPID) for IBM SCLM Developer Toolkit.

<i>Figure 6. Component IDs</i>			
<b>FMID</b>	<b>COMPID</b>	<b>Component Name</b>	<b>RETAIN Release</b>
HSD1110	5655M9900	SCLM Developer Toolkit V01.01.00	110
HWJ9133	569501401	REXX Alternate Library	133

---

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

This section identifies the program and any relevant service levels of IBM SCLM Developer Toolkit. 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 IBM SCLM Developer Toolkit.

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### **4.2 Service Level Information**

No PTFs against this release of IBM SCLM Developer Toolkit 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 IBM SCLM Developer Toolkit. 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 IBM SCLM Developer Toolkit.

#### 5.1.1 Machine Requirements

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

#### 5.1.2 Programming Requirements

<i>Figure 7. Driving System Software Requirements</i>	
<b>Program Number</b>	<b>Product Name and Minimum VRM/Service Level</b>
Any <b>one</b> of the following:	
5694-A01	z/OS V1.04.00 or later
5655-G44	IBM SMP/E for z/OS and OS/390 V3.01.00 or later

---

## 5.2 Target System Requirements

This section describes the environment of the target system required to install and use IBM SCLM Developer Toolkit.

IBM SCLM Developer Toolkit 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.

*Figure 8. Mandatory Installation Requisites*

Program Number	Product Name and Minimum VRM/Service Level
5694-A01	z/OS V01.04.00 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.

IBM SCLM Developer Toolkit 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.

<i>Figure 9. Mandatory Operational Requisites</i>	
<b>Program Number</b>	<b>Product Name and Minimum VRM/Service Level</b>
5655-D35	JAVA V01.03.01 or later
Any <b>one</b> of the following:	
5694-A01	z/OS V01.04.00 with PTF UA02085 With HTTP server With ISPF/SCLM With UNIX SYSTEM SERVICES
5694-A01	z/OS V01.05.00 or later With HTTP server With ISPF/SCLM With UNIX SYSTEM SERVICES
Any <b>one</b> of the following:	
5695-014	REXX Library (FMID HWJ9130)
5695-014	REXX Alternate Library (FMID HWJ9133)

**Note:** IBM SCLM Developer Toolkit requires that the REXX library or the REXX Alternate library in the execution environment. The REXX Alternate Library is supplied with IBM SCLM Developer Toolkit. See 6.1.5, “When to Install The REXX Alternate Library” on page 20 for information about when you need to install the REXX Alternate Library as part of this install.

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.

<i>Figure 10. Conditional Operational Requisites</i>		
<b>Program Number</b>	<b>Product Name and Minimum VRM/Service Level</b>	<b>Function</b>
	APACHE ANT V01.06.00 or later available from <a href="http://ant.apache.org/">http://ant.apache.org/</a>	
Any <b>one</b> of the following:		
5694-A01	z/OS V01.04.00 with the PTF that addresses APAR OA11426	Long/Short name translation
5694-A01	z/OS V01.05.00 or later with the PTF that addresses APAR OA11426	Long/Short name translation

**Note:** The PTF that addresses ISPF/SCLM APAR OA11426 is required if you wish to utilise the Long to Short name translation services in IBM SCLM Developer Toolkit. This will allow the ability to store files from other platforms which have long names in SCLM with generated member names.

**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.

IBM SCLM Developer Toolkit 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.

IBM SCLM Developer Toolkit has no negative requisites.

### 5.2.3 DASD Storage Requirements

IBM SCLM Developer Toolkit libraries can reside on all supported DASD types. The values below are for 3390 DASD.

Figure 11 lists the total space required for each type of library.

<i>Figure 11. Total DASD Space Required by IBM SCLM Developer Toolkit</i>	
<b>Library Type</b>	<b>Total Space Required</b>
Target	78 tracks (includes 6 tracks for REXX Alternate Library if installed)
Distribution	14580 tracks (includes 8 tracks for REXX Alternate Library if installed)
HFS	14500 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 6.1.9, "Allocate SMP/E Target and Distribution Libraries" on page 21.

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.
- The data set must be APF-authorized.

The following figures describe the target and distribution libraries and HFS paths required to install IBM SCLM Developer Toolkit. The storage requirements of IBM SCLM Developer Toolkit 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 12. Storage Requirements for IBM SCLM Developer Toolkit 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
SBWBJCL	SAMP	Any	U	PDSE	FB	80	6	N/A
SBWBLOAD	LMOD	Any	U	PDSE	U	0	60	N/A
SBWBSAMP	SAMP	Any	U	PDSE	VB	256	6	N/A
SEAGALT	LMOD	Any	U	PDS	U	0	2	3
SEAGJENU	SAMP	Any	U	PDS	FB	80	2	2
SEAGMENU	MESS	Any	U	PDS	VB	255	1	2
SEAGSAM	SAMP	Any	U	PDS	FB	80	1	2

Figure 13. IBM SCLM Developer Toolkit HFS Paths

DDNAME	T Y P E	Path Name
SBWBHFS	X	/usr/lpp/SCLMDT/IBM/

Figure 14. Storage Requirements for IBM SCLM Developer Toolkit 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
ABWBGUI	U	PDSE	VB	256	14500	N/A
ABWBJCL	U	PDSE	FB	80	6	N/A
ABWBMOD	U	PDSE	U	0	60	N/A
ABWBSAMP	U	PDSE	VB	256	6	N/A
AEAGJENU	U	PDS	FB	80	2	2
AEAGMENU	U	PDS	VB	255	1	2
AEAGMOD1	U	PDS	U	0	4	3
AEAGSAM	U	PDS	FB	80	1	2

---

## 5.3 FMIDs Deleted

Installing IBM SCLM Developer Toolkit 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 IBM SCLM Developer Toolkit 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

The Host system must also have the following software activated:

- UNIX System Services
- z/OS V1.4 (preferably V1.5, or later) - z/OS V1.4 requires ISPF PTF UA02085
- PTF that addresses ISPF/SCLM APAR OA11426 on z/OS for Long name support
- Java 1.3.1 (5655-D35) at service level dated May 10, 2003, or September 25, 2003
- ANT runtime installed in Unix Systems services, if performing Java/J2EE builds. Open source download from <http://ant.apache.org/>

The client workstations require the following minimum hardware configuration

- For workstations using the GUI Client :
  - A PC with 1 GB RAM minimum for best performance
    - A minimum 768 MB for users running WebSphere Enterprise Developer
    - A minimum 512 MB for users not running WebSphere Enterprise Developer
  - 512 MB of disk space available
  - 500 MHz or faster processor
  - 1024 x 768 resolution monitor
  - TCP/IP connectivity with the host system

The client workstations require one of the following software configurations

- For workstations using the GUI Client :
  - Windows XP
  - Windows 2000 with Service Pack #3 or later
  - Red Hat Linux Pro 8.0 on Intel X86 with GTK
  - IBM AIX 5L on PowerPC

- TCP/IP connectivity with host mainframe system
- Java 1.3 run time or developer kit installed

---

## 6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IBM SCLM Developer Toolkit.

Please note the following:

- If you want to install IBM SCLM Developer Toolkit 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.
- 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 IBM SCLM Developer Toolkit

#### 6.1.1 SMP/E Considerations for Installing IBM SCLM Developer Toolkit

This release of IBM SCLM Developer Toolkit 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 15. 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 15. SMP/E Options Subentry Values</i>		
<b>SUB-ENTRY</b>	<b>Value</b>	<b>Comment</b>
DSSPACE	(200,200,500)	3390 DASD tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

### 6.1.3 SMP/E CALLLIBS Processing

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

- CSSLIB

**Note:** The DDDEFs above are used only to resolve the link-edit for IBM SCLM Developer Toolkit using CALLLIBS. These data sets are not updated during the installation of IBM SCLM Developer Toolkit.

### 6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install IBM SCLM Developer Toolkit:

<i>Figure 16. Sample Installation Jobs</i>			
<b>Job Name</b>	<b>Job Type</b>	<b>Description</b>	<b>RELFILE</b>
BWBASMPA	SMP/E	Sample job to allocate and initialize a new SMP/E CSI data set <b>(Optional)</b>	IBM.HSD1110.F1
BWBASMPI	SMP/E	Sample job to allocate SMP/E data sets <b>(Optional)</b>	IBM.HSD1110.F1
BWBRECEV	RECEIVE	Sample RECEIVE job for SCLM Developer Toolkit	IBM.HSD1110.F1
BWBALLOC	ALLOCATE	Sample job to allocate target and distribution libraries for SCLM Developer Toolkit	IBM.HSD1110.F1
BWBIHFSA		Sample job to create HFS dataset and mount point for SCLM Developer Toolkit <b>(Optional)</b>	IBM.HSD1110.F1
BWBISMKD	MKDIR	Sample job to invoke the supplied BWBMKDIR EXEC to allocate HFS paths	IBM.HSD1110.F1
BWBDDDEF	DDDEF	Sample job to define SMP/E DDDEFs for SCLM Developer Toolkit	IBM.HSD1110.F1
BWBAPPLY	APPLY	Sample APPLY job for SCLM Developer Toolkit	IBM.HSD1110.F1
BWBACCEP	ACCEPT	Sample ACCEPT job for SCLM Developer Toolkit	IBM.HSD1110.F1
BWBRECRX	RECEIVE	Sample RECEIVE job for REXX Alternate Library	IBM.HSD1110.F1
BWBALLRX	ALLOCATE	Sample job to allocate target and distribution libraries for REXX Alternate Library	IBM.HSD1110.F1
BWBDDDRX	DDDEF	Sample job to define SMP/E DDDEFs for REXX Alternate Library	IBM.HSD1110.F1
BWBAPPRX	APPLY	Sample APPLY job for REXX Alternate Library	IBM.HSD1110.F1
BWBACCRX	ACCEPT	Sample ACCEPT job for REXX Alternate Library	IBM.HSD1110.F1

You can access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the refiles to a work data set for editing and submission. See Figure 16 to find the appropriate refile data set.

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, by uncommenting the appropriate DD statement below. 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=*
//*****
/* If you wish to create a new global zone do not run the *
/* RCVPDO job supplied with CBPDO. RCVPDO assumes that *
/* you will be installing into an existing global zone. *
/* Make the //TAPEIN DD statement below active if you install*
/* from a CBPDO tape by uncommenting the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HSD1110.F1,UNIT=tunit,
/* VOL=SER=volser,LABEL=(X,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //TAPEIN DD statement below active if you install*
/* from a product tape received outside the CBPDO process *
/* (using the optional SMP/E RECEIVE job) by uncommenting *
/* the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HSD1110.F1,UNIT=tunit,
/* VOL=SER=SD1110,LABEL=(2,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //FILEIN DD statement below active for *
/* downloaded DASD files. *
//*****
/*FILEIN DD DSN=IBM.HSD1110.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,(6,1,5))
//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 address where the product tape is mounted

**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.HSD1110.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.

You can also access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the refiles to a work data set for editing and submission. See Figure 16 on page 18 to find the appropriate refile data set.

### 6.1.5 When to Install The REXX Alternate Library

IBM SCLM Developer Toolkit requires either the REXX Library or the REXX Alternate Library in the execution environment. You may have previously installed the REXX Library in conjunction with the REXX Compiler and Library or you may have previously installed the REXX Alternate Library as part of the installation of another product. The REXX Library is program number 5695-014. The REXX Library is FMID HWJ9130. The REXX Alternate Library is FMID HWJ9133.

If you have the REXX Library or the REXX Alternate Library already installed you do not need to install the REXX Alternate Library.

If you do not have either the REXX Library or the REXX Alternate Library installed you will need to install the REXX Alternate Library as part of installing IBM SCLM Developer Toolkit.

### 6.1.6 Allocate SMP/E CSI (Optional)

If you are using an existing CSI, do not execute this job.

If you are allocating a new SMP/E data set for this install, edit, and submit sample job BWBASMPA to allocate the SMP/E data set for IBM SCLM Developer Toolkit.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

### 6.1.7 Initialize CSI zones (Optional)

If you are using an existing CSI, do not execute this job.

Edit and submit sample job BWBASMPI to initialize SMP/E zones for IBM SCLM Developer Toolkit. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.



## 6.1.8 Perform SMP/E RECEIVE

**Note:** If you obtained IBM SCLM Developer Toolkit as part of a CBPDO, use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the IBM SCLM Developer Toolkit 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 BWBRECEV to perform the SMP/E RECEIVE for IBM SCLM Developer Toolkit. Consult the instructions in the sample job for more information.

If you are installing the REXX Alternate Library you can also choose to edit and submit sample job BWBRECRX to perform the SMP/E RECEIVE for REXX Alternate Library. Consult the instructions in the sample job for more information.

### Expected Return Codes and Messages:

- FMID HSD1110 (IBM SCLM Developer Toolkit)
  - You will receive a return code of 0 if this job runs correctly.
- FMID HWJ9133 (REXX Alternate Library)
  - You will receive a return code of 0 if this job runs correctly.

## 6.1.9 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job BWBALLOC to allocate the SMP/E target and distribution libraries for IBM SCLM Developer Toolkit. Consult the instructions in the sample job for more information.

If you are installing the REXX Alternate Library, edit and submit sample job BWBALLRX to allocate the SMP/E target and distribution libraries for REXX Alternate Library. Consult the instructions in the sample job for more information.

### Expected Return Codes and Messages:

- FMID HSD1110 (IBM SCLM Developer Toolkit)
  - You will receive a return code of 0 if this job runs correctly.
- FMID HWJ9133 (REXX Alternate Library)
  - You will receive a return code of 0 if this job runs correctly.

## 6.1.10 Allocate HFS data set and create mount point (Optional)

If you need to create a new HFS dataset and mount point, install, edit, and submit sample job BWBIHFSA to allocate the HSF data set for IBM SCLM Developer Toolkit and create a product mount point.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

### 6.1.11 Allocate HFS Paths

Edit and submit sample job BWBISMKD to allocate the HFS paths for IBM SCLM Developer Toolkit. 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:** You will receive a return code of 0 if this job runs correctly.

### 6.1.12 Create DDDEF Entries

Edit and submit sample job BWBDDDEF to create DDDEF entries for the SMP/E target and distribution libraries for IBM SCLM Developer Toolkit. Consult the instructions in the sample job for more information.

If you are installing the REXX Alternate Library, edit and submit sample job BWBDDDRX to create DDDEF entries for the SMP/E target and distribution libraries for REXX Alternate Library. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:**

- FMID HSD1110 (IBM SCLM Developer Toolkit)
  - You will receive a return code of 0 if this job runs correctly.
- FMID HWJ9133 (REXX Alternate Library)
  - You will receive a return code of 0 if this job runs correctly.

### 6.1.13 Perform SMP/E APPLY

Edit and submit sample job BWBAPPLY to perform an SMP/E APPLY CHECK for IBM SCLM Developer Toolkit. Consult the instructions in the sample job for more information.

If you are installing the REXX Alternate Library, edit and submit sample job BWBAPPRX to perform an SMP/E APPLY CHECK for REXX Alternate Library. 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).

Enhanced HOLDDATA introduced ERROR HOLDs against FMIDs for HIPER APARs. Prior to installing, you should ensure you have the latest Enhanced HOLDDATA (available at [url](#))

<http://service.software.ibm.com/holdata/390holddata.html>). The FMID(s) should be installed regardless of the status of unresolved HIPERs, however, the software should not be deployed until the unresolved HIPERs have been analyzed to determine applicability.

There are two methods to complete an FMID installation where ++HOLDS for HIPERs exist for the FMID(s) being installed:

1. To ensure that all critical service is installed with the FMID(s), add the SOURCEIDs of PRP, and HIPER to the APPLY command. There may be PE or HIPER APARs that do not have resolving PTFs available yet. You need to analyze the symptom flags to determine if you want to BYPASS the specific ERROR HOLDS and continue the FMID installation.

```
APPLY S(fmid,fmid,...)
FORFMID(fmid,fmid,...)
SOURCEID(PRP,HIPER,...)
GROUPEXTEND .
```

This method requires more initial research, but will provide resolution for all HIPERs that have fixes available and are not in a PE chain. There may still be unresolved PEs or HIPERs which will require the use of BYPASS.

2. To install the FMID(s) as it would have been installed prior to Enhanced HOLDDATA, you can add a BYPASS(HOLDCLASS(HIPER)) operand to the APPLY command. This will allow the FMID to be installed even though there are HIPER ERROR HOLDS against it. Note that not all ERROR HOLDS were bypassed, only the HIPER ERROR HOLDS. After the FMID(s) are installed, the SMP/E REPORT ERRSYSMODS command should be run to identify any missing HIPER maintenance.

```
APPLY S(fmid,fmid,...)
BYPASS(HOLDCLASS(HIPER))
```

This method is the quicker of the two, but requires subsequent review of the REPORT ERRSYSMODS to investigate any HIPERs.

If you bypass any HOLDS during the installation of the FMID(s) because fixing PTFs were not yet available you can use the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink to be notified when the fixing PTF is available.

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:**

- FMID HSD1110 (IBM SCLM Developer Toolkit)
  - You will receive a return code of 0 if this job runs correctly.
- FMID HWJ9133 (REXX Alternate Library)
  - You will receive a return code of 0 if this job runs correctly.

### Expected Return Codes and Messages from APPLY:

- FMID HSD1110 (IBM SCLM Developer Toolkit)
  - You will receive a return code of 0 if this job runs correctly.
- FMID HWJ9133 (REXX Alternate Library)
  - If you are installing HWJ9133 with PTF UN93568 in the same APPLY step.
    - Expected Return Code = 4  
PTF UN93568 requires a BYPASS(HOLDSYS) for the ++HOLD REASON(ACTION) and ++HOLD REASON(DOC) in the PTF. Message GIM42001W will be issued for this condition. If GIM42001W is the only cause of the return code 4 then the return code 4 is acceptable.
    - Expected Error Messages: None
    - Expected Warning Messages:
      - GIM42001W THE FOLLOWING CONDITIONS FOR SYSMOD UN93568 WERE NOT SATISFIED, BUT WERE IGNORED BECAUSE THE BYPASS OPERAND WAS SPECIFIED. PROCESSING CONTINUES.
      - GIM35966I SYSTEM HOLD DOC ORIGINATED BY SYSMOD UN93568 WAS BYPASSED.
      - GIM35966I SYSTEM HOLD ACTION ORIGINATED BY SYSMOD UN93568 WAS BYPASSED.
  - If you are installing HWJ9133 without PTF UN93568
    - Expected Return Code = 4  
If the messages listed below are the only cause of the return code 4 then the return code 4 is acceptable.
    - Expected Error Messages: No error messages
    - Expected Warning Messages:
      - The following SMP/E message will be issued for module EAGKCPT.
        - GIM23903W LINK-EDIT PROCESSING FOR SYSMOD HWJ9133 WAS SUCCESSFUL FOR MODULE EAGKCPT IN LMOD EAGKCPT IN THE SEAGALT LIBRARY. THE RETURN CODE WAS 04.
        - OR
        - GIM23913W LINK-EDIT PROCESSING FOR SYSMOD HWJ9133 WAS SUCCESSFUL FOR MODULE EAGKCPT IN LMOD EAGKCPT IN THE SEAGALT LIBRARY. THE RETURN CODE WAS 04.
      - The following SMP/E message will be issued for modules EAGKIINI, EAGKIUNP, EAGKRLIB, EAGKRXIN, EAGKRXLD, EAGKRXTR, EAGKXMMS, and EAGKXMSG.

- GIM23903W LINK-EDIT PROCESSING FOR SYSMOD HWJ9133 WAS SUCCESSFUL FOR MODULE xxxxxxxx IN LMOD EAGRTALT IN THE SEAGALT LIBRARY. THE RETURN CODE WAS 04.
- OR
- GIM23913W LINK-EDIT PROCESSING FOR SYSMOD HWJ9133 WAS SUCCESSFUL FOR MODULE xxxxxxxx IN LMOD EAGRTALT IN THE SEAGALT LIBRARY. THE RETURN CODE WAS 04.
- The following Binder message will be issued for Load Module EAGKCPT.
  - IEW2650I 5102 MODULE ENTRY NOT PROVIDED. ENTRY DEFAULTS TO SECTION IRXCMPTM.
  -
- The following Binder messages will be issued for Load Module EAGRTALT.
  - IEW2646W 4B07 ESD RMODE(24) CONFLICTS WITH USER-SPECIFIED RMODE(ANY) FOR SECTION EAGJIINI.
  - IEW2646W 4B07 ESD RMODE(24) CONFLICTS WITH USER-SPECIFIED RMODE(ANY) FOR SECTION EAGJIUNP.
  - IEW2646W 4B07 ESD RMODE(24) CONFLICTS WITH USER-SPECIFIED RMODE(ANY) FOR SECTION EAGJXMMS.
  - IEW2646W 4B07 ESD RMODE(24) CONFLICTS WITH USER-SPECIFIED RMODE(ANY) FOR SECTION EAGJXMSG.

### 6.1.14 Perform SMP/E ACCEPT

Edit and submit sample job BWBACCEP to perform an SMP/E ACCEPT CHECK for IBM SCLM Developer Toolkit. Consult the instructions in the sample job for more information.

If you are installing the REXX Alternate Library, edit and submit sample job BWBACCRX to perform an SMP/E ACCEPT CHECK for IBM SCLM Developer Toolkit. 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:**

- FMID HSD1110 (IBM SCLM Developer Toolkit)
  - You will receive a return code of 0 if this job runs correctly.
- FMID HWJ9133 (REXX Alternate Library)
  - You will receive a return code of 0 if this job runs correctly.

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:**

- FMID HSD1110 (IBM SCLM Developer Toolkit)
  - You will receive a return code of 0 if this job runs correctly.
- FMID HWJ9133 (REXX Alternate Library)
  - If no PTFs are being ACCEPTed.
    - You will receive a return code of 0 if this job runs correctly.
  - If PTFs with replacement modules are being ACCEPTed.
    - Expected Return Code = 4
    - If the messages explained in the paragraph above are the only cause of the return code 4 then the return code 4 is acceptable.
    - Expected Error Messages: No error messages
    - Expected Warning Messages:
      - Warning messages documenting unresolved external references as explained in the paragraph above.

## 6.1.15 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 IBM SCLM Developer Toolkit, 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 IBM SCLM Developer Toolkit

### 6.2.1 HFS Execution

If you choose to have the HFS in which you have installed IBM SCLM Developer Toolkit mounted in read-only mode during execution, then no further tasks are required to accomplish this.

The publication *IBM SCLM Developer Toolkit Installation and Customization Guide, SC31-6899*, contains information about customization that should be performed prior to activating the functions of SCLM Developer Toolkit.

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APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

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# Reader's Comments

## Program Directory for IBM Software Configuration and Library Manager (SCLM) Developer Toolkit, July 2005

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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						
very satisfied	<----->				very dissatisfied	not applicable
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

\_\_\_ No

If yes, how many years? \_\_\_

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

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Please send the completed form to (or give to your IBM representative who will forward it to the IBM Software Configuration and Library Manager (SCLM) Developer Toolkit Development group):

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