



**Program Directory for
IBM Enterprise COBOL Developer Trial for z/OS**

V06.02.00

Program Number 5655-TY6

FMIDs HAKH620, JAKH621, JAKH622, JAKH62H

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 29.

Contents

1.0 Introduction	1
1.1 Enterprise COBOL Developer Trial Description	1
1.2 Enterprise COBOL Developer Trial FMIDs	3
2.0 Program Materials	4
2.1 Basic Machine-Readable Material	4
2.2 Optional Machine-Readable Material	5
2.3 Program Publications	5
2.3.1 Optional Program Publications	6
2.4 Program Source Materials	6
2.5 Publications Useful During Installation	6
3.0 Program Support	7
3.1 Program Services	7
3.2 Preventive Service Planning	7
3.3 Statement of Support Procedures	8
4.0 Program and Service Level Information	9
4.1 Program Level Information	9
4.2 Service Level Information	10
5.0 Installation Requirements and Considerations	11
5.1 Driving System Requirements	11
5.1.1 Machine Requirements	11
5.1.2 Programming Requirements	11
5.2 Target System Requirements	12
5.2.1 Machine Requirements	12
5.2.2 Programming Requirements	13
5.2.2.1 Installation Requisites	13
5.2.2.2 Operational Requisites	13
5.2.2.3 Toleration/Coexistence Requisites	15
5.2.2.4 Incompatibility (Negative) Requisites	15
5.2.3 DASD Storage Requirements	15
5.3 FMIDs Deleted	18
5.4 Special Considerations	18
6.0 Installation Instructions	20
6.1 Installing Enterprise COBOL Developer Trial	20
6.1.1 SMP/E Considerations for Installing Enterprise COBOL Developer Trial	20
6.1.2 SMP/E Options Subentry Values	20
6.1.3 Sample Jobs	20
6.1.4 Run REPORT MISSINGFIX	22

6.1.5	Set up ISPF Editor Macro (Optional)	23
6.1.6	Allocate and Initialize the SMP/E CSI (Optional)	23
6.1.7	Perform SMP/E RECEIVE	23
6.1.8	Allocate SMP/E Target and Distribution Libraries	24
6.1.9	Allocate, create and mount ZFS Files (Optional)	24
6.1.10	Allocate File System Paths	25
6.1.11	Create DDDEF Entries	25
6.1.12	Perform SMP/E APPLY	25
6.1.13	Run the Installation Verification Programs	27
6.1.14	Perform SMP/E ACCEPT	27
6.2	Activating Enterprise COBOL Developer Trial	28
6.2.1	File System Execution	28
6.2.2	Product Customization	28
7.0	Notices	29
7.1	Trademarks	29
Reader's Comments		30

Figures

1.	Program File Content	4
2.	Basic Material: Unlicensed	5
3.	Publications Useful During Installation	6
4.	PSP Upgrade and Subset ID	7
5.	Component IDs	8
6.	Driving System Software Requirements	12
7.	Target System Mandatory Installation Requisites	13
8.	Target System Mandatory Operational Requisites	13
9.	Total DASD Space Required by Enterprise COBOL Developer Trial	16
10.	Storage Requirements for Enterprise COBOL Developer Trial Target Libraries	17
11.	Enterprise COBOL Developer Trial File System Paths	17
12.	Storage Requirements for Enterprise COBOL Developer Trial Distribution Libraries	18
13.	SMP/E Options Subentry Values	20
14.	Sample Installation Jobs	21

1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM® Enterprise COBOL Developer Trial for z/OS®. This publication refers to IBM Enterprise COBOL Developer Trial for z/OS as Enterprise COBOL Developer Trial.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 4 identifies the basic program materials and documentation for Enterprise COBOL Developer Trial.
- 3.0, “Program Support” on page 7 describes the IBM support available for Enterprise COBOL Developer Trial.
- 4.0, “Program and Service Level Information” on page 9 lists the APARs (program level) and PTFs (service level) that have been incorporated into Enterprise COBOL Developer Trial.
- 5.0, “Installation Requirements and Considerations” on page 11 identifies the resources and considerations that are required for installing and using Enterprise COBOL Developer Trial.
- 6.0, “Installation Instructions” on page 20 provides detailed installation instructions for Enterprise COBOL Developer Trial. It also describes the procedures for activating the functions of Enterprise COBOL Developer Trial, or refers to appropriate publications.

Before installing Enterprise COBOL Developer Trial, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this program directory; then keep them for future reference.

Enterprise COBOL Developer Trial is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The program directory that is provided in softcopy format on the CBPDO tape is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for Enterprise COBOL Developer Trial are included on the CBPDO tape.

Do not use this program directory if you install Enterprise COBOL Developer Trial with a SystemPac or ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

1.1 Enterprise COBOL Developer Trial Description

Evaluate the IBM COBOL compiler by first using the Enterprise COBOL Developer Trial for z/OS, V6.2

Enterprise COBOL Developer Trial for z/OS comes with a no-charge evaluation license. With Enterprise COBOL Developer Trial for z/OS, V6.2, you can evaluate the latest capabilities of IBM Enterprise COBOL for z/OS, V6.2 in a nonproduction environment, before committing time and resources to a production

migration project. Assess the value of moving to this new compiler, before making a decision to formally adopt it.

Enterprise COBOL Developer Trial for z/OS is a fully functional program that can be used to conduct Proof of Technology evaluations that cover the full set of Enterprise COBOL for z/OS, V6.2 capabilities.

Enterprise COBOL Developer Trial for z/OS is to be used only for internal evaluation, testing, or demonstration purposes, and is not for production purposes. Use of the trial compiler to develop production applications is not allowed. The license provides for a 90-day trial period. The trial is provided without formal program support. Your comments and inquiries can be submitted through normal service channels by using the Enterprise COBOL Developer Trial product ID and your customer number. Note that this Developer Trial is provided under the International License Agreement for Evaluation of Programs.

Enterprise COBOL for z/OS, V6.2

Enterprise COBOL for z/OS, V6.2 incorporates leading-edge code generation and optimization technology to maximize hardware utilization, and help improve application performance. Version 6.2 delivers:

- Support for the new IBM z14™ hardware and IBM z/OS V2.3 operating system
- Support for the new z14 Vector Packed Decimal Facility
- New features including JSON PARSE, additional support for the COBOL 2002/2014 standards, and new and changed compiler options
- Improved interfaces while adding performance improvements

With Enterprise COBOL for z/OS, V6.2, you can harness the power of the latest advancement in z/Architecture®. For more information on the functions of Enterprise COBOL for z/OS, V6.2, refer to Software Announcement :

- EMEA :
ZP17-0409, dated July 17, 2017.
- AP :
ZP17-0409, dated July 17, 2017.
- US :
217-323, dated July 17, 2017.
- LA :
LP17-0407, dated July 17, 2017.
- CAN :
A17-0501, dated July 17, 2017.
- JPN :
JP17-0398, dated July 17, 2017.

1.2 Enterprise COBOL Developer Trial FMIDs

Enterprise COBOL Developer Trial consists of the following FMIDs:

HAKH620
JAKH621
JAKH622
JAKH62H

2.0 Program Materials

An IBM program is identified by a program number. The program number for Enterprise COBOL Developer Trial is 5655-TY6.

Basic Machine-Readable Materials are materials that are supplied under the base license and are required for the use of the product.

The program announcement material describes the features supported by Enterprise COBOL Developer Trial. 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 physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 20 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for Enterprise COBOL Developer Trial in the *CBPDO Memo To Users Extension*.

Figure 1 describes the program file content for Enterprise COBOL Developer Trial. You can refer to the *CBPDO Memo To Users Extension* to see where the files reside on the tape.

Notes:

1. The data set attributes in this table must be used in the JCL of jobs that read the data sets. However, because the data sets are in IEBCOPY unloaded format, their actual attributes might be different.
2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

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

Name	ORG	RECFM	RECL	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.HAKH620.F1	PDS	FB	80	8800
IBM.HAKH620.F2	PDSE	U	0	6144
IBM.HAKH620.F3	PDS	FB	80	8800
IBM.JAKH621.F1	PDSE	U	0	6144
IBM.JAKH621.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.JAKH622.F1	PDSE	U	0	6144
IBM.JAKH62H.F1	PDS	VB	255	27998

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for Enterprise COBOL Developer Trial.

2.3 Program Publications

The following sections identify the basic publications for Enterprise COBOL Developer Trial.

Figure 2 identifies the basic unlicensed publications for Enterprise COBOL Developer Trial. Those that are in softcopy format publications can be obtained from the IBM Publications Center website at: <http://www.ibm.com/shop/publications/order/>

Figure 2. Basic Material: Unlicensed

Publication Title	Form Number	Media Format
IBM Enterprise COBOL Developer Trial for z/OS License Information	LC27-8709-01	http://www.ibm.com/software/sla/sladb.nsf or http://www.ibm.com/support/docview.wss?uid=swg27036733
IBM Enterprise COBOL for z/OS Customization Guide	SC27-8712-01	http://www.ibm.com/support/docview.wss?uid=swg27036733
IBM Enterprise COBOL for z/OS Language Reference	SC27-8713-01	http://www.ibm.com/support/docview.wss?uid=swg27036733
IBM Enterprise COBOL for z/OS Programming Guide	SC27-8714-01	http://www.ibm.com/support/docview.wss?uid=swg27036733
IBM Enterprise COBOL for z/OS Migration Guide	GC27-8715-01	http://www.ibm.com/support/docview.wss?uid=swg27036733
IBM Enterprise COBOL for z/OS Performance Tuning Guide	SC27-9202-00	http://www.ibm.com/support/docview.wss?uid=swg27036733
IBM Enterprise COBOL for z/OS Messages and Codes	SC27-4648-00	http://www.ibm.com/support/docview.wss?uid=swg27036733

2.3.1 Optional Program Publications

No optional publications are provided for Enterprise COBOL Developer Trial.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for Enterprise COBOL Developer Trial.

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 3 during the installation of Enterprise COBOL Developer Trial.

<i>Figure 3. Publications Useful During Installation</i>		
Publication Title	Form Number	Media Format
<i>IBM SMP/E for z/OS User's Guide</i>	SA23-2277	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS Commands</i>	SA23-2275	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS Reference</i>	SA23-2276	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA32-0883	http://www.ibm.com/shop/publications/order/

3.0 Program Support

This section describes the IBM support available for Enterprise COBOL Developer Trial.

3.1 Program Services

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

3.2 Preventive Service Planning

Before you install Enterprise COBOL Developer Trial, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the IBM.ProductInstall-RequiredService fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.ProductInstall-RequiredService)** operand on the **APPLY CHECK command**. See 6.1.12, “Perform SMP/E APPLY” on page 25 for a sample APPLY command.

If you obtained Enterprise COBOL Developer Trial as part of a CBPDO, HOLDDATA is included.

If the CBPDO for Enterprise COBOL Developer Trial is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to the following website:

<http://www14.software.ibm.com/webapp/set2/psearch/search?domain=psp>

You can also use S/390 SoftwareXcel or contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Website at <http://www.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 Enterprise COBOL Developer Trial are included in Figure 4.

Figure 4. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
COBOLDT620	HAKH620	Enterprise COBOL Base
	JAKH621	Enterprise COBOL US English
	JAKH622	Enterprise COBOL Japanese
	JAKH62H	Enterprise COBOL HFS

3.3 Statement of Support Procedures

Report any problems which you feel might be an error in the product materials to your IBM Support Center. You may be asked to gather and submit additional diagnostics to assist the IBM Support Center in their analysis.

Figure 5 on page 8 identifies the component IDs (COMPID) for Enterprise COBOL Developer Trial.

<i>Figure 5. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HAKH620	5655TRY00	Enterprise COBOL Base	620
JAKH621	5655TRY00	Enterprise COBOL US English	621
JAKH622	5655TRY00	Enterprise COBOL Japanese	622
JAKH62H	5655TRY00	Enterprise COBOL HFS	62H

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of Enterprise COBOL Developer Trial. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been incorporated into the program.

4.1 Program Level Information

The following APAR fixes against Enterprise COBOL Developer Trial V06.01.00 have been incorporated into this release. They are listed by FMID.

- FMID HADB610

PI63108	PI63289	PI68286	PI72823	PI79743
PI63109	PI63290	PI68287	PI72824	PI79746
PI63110	PI63291	PI68288	PI72825	PI79747
PI63111	PI63292	PI68687	PI72826	PI79748
PI63113	PI63293	PI69046	PI72827	PI79788
PI63114	PI63294	PI69265	PI74269	PI79790
PI63116	PI63295	PI69303	PI74711	PI79960
PI63117	PI63296	PI70211	PI74933	PI79961
PI63118	PI63297	PI70505	PI75967	PI79963
PI63119	PI63298	PI71540	PI76059	PI80027
PI63120	PI66991	PI71940	PI76060	PI80028
PI63121	PI67026	PI71948	PI76061	PI80051
PI63122	PI67352	PI71970	PI76062	PI80215
PI63123	PI68023	PI71984	PI76063	PI80709
PI63124	PI68226	PI71997	PI76232	PI81838
PI63125	PI68273	PI72194	PI76265	PI81839
PI63126	PI68274	PI72229	PI77468	PI82223
PI63127	PI68275	PI72812	PI77655	PI82572
PI63128	PI68276	PI72813	PI77884	PI82709
PI63129	PI68277	PI72814	PI77981	PI82740
PI63130	PI68278	PI72815	PI78089	PI82936
PI63131	PI68279	PI72816	PI79166	PI82938
PI63281	PI68280	PI72817	PI79350	PI82939
PI63282	PI68281	PI72818	PI79736	PI82941
PI63283	PI68282	PI72819	PI79737	PI82942
PI63285	PI68283	PI72820	PI79740	PI82943
PI63286	PI68284	PI72821	PI79741	PI82991
PI63287	PI68285	PI72822	PI79742	PI84281
PI63288				

4.2 Service Level Information

No PTFs against this release of Enterprise COBOL Developer Trial have been incorporated into the product package.

Frequently check the Enterprise COBOL Developer Trial PSP Bucket for HIPER and SPECIAL attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then add the

**FIXCAT (IBM.TargetSystem-RequiredService.Enterprise-COBOL.V5R1,
IBM.TargetSystem-RequiredService.Enterprise-COBOL.V5R2,
IBM.TargetSystem-RequiredService.Enterprise-COBOL.V6R1,
IBM.TargetSystem-RequiredService.Enterprise-COBOL.V6R2) .**

operand on your APPLY CHECK command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Enterprise COBOL Developer Trial. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.
The program might have specific operating system or product level requirements for using processes, such as binder or assembly utilities during the installation.
- *Target system*: the system on which the program is configured and run.
The program might have specific product level requirements, such as needing access to the library of another product for link-edits. These requirements, either mandatory or optional, might directly affect the element during the installation or in its basic or enhanced operation.

In many cases, you can use a system as both a driving system and a target system. However, you can make a separate IPL-able clone of the running system to use as a target system. The clone must 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.

Use separate driving and target systems in the following situations:

- When you install a new level of a product that is already installed, the new level of the product will replace the old one. By installing the new level onto a separate target system, you can test the new level and keep the old one in production at the same time.
- When you install a product that shares libraries or load modules with other products, the installation can disrupt the other products. By installing the product onto a separate target system, you can 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 Enterprise COBOL Developer Trial.

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 6. Driving System Software Requirements

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5650-ZOS	z/OS	V02.01.00 or higher	N/A	No

Note: SMP/E is a requirement for Installation and is an element of z/OS but can also be ordered as a separate product, 5655-G44, minimally V03.06.00.

Note: Installation might require migration to new z/OS releases to be service supported. See http://www.ibm.com/systems/z/os/zos/support/zos_eos_dates.html.

If you plan on installing the Japanese FMID JAKH622 then ensure you have codepage 939 which is the Latin-based Japanese codepage that displays both upper and lower case characters correctly. Mixed case character usage is required for the sample IGYWDDEF, IGYISMKD and IGYISMKD jobs; therefore, codepage 939 is required to run these jobs from the driving system.

Enterprise COBOL Developer Trial is installed into a file system, either HFS or zFS. Before installing Enterprise COBOL Developer Trial, you must ensure that the target system file system data sets are available for processing on the driving system. OMVS must be active on the driving system and the target system file data sets must be mounted on the driving system.

If you plan to install Enterprise COBOL Developer Trial in a zFS file system, this requires that zFS be active on the driving system. Information on activating and using zFS can be found in z/OS Distributed File Service zSeries File System Administration, SC24-5989.

5.2 Target System Requirements

This section describes the environment of the target system required to install and use Enterprise COBOL Developer Trial.

Enterprise COBOL Developer Trial installs in the z/OS (Z038) SREL.

5.2.1 Machine Requirements

Enterprise COBOL Developer Trial V06.02.00 will run on the following IBM System z servers:

- z14
- z13[®] or z13s[™]
- zEnterprise[®] EC12 or zEnterprise BC12
- zEnterprise 196 or zEnterprise 114
- z10[™] Enterprise Class and z10 Business Class

- z9® Enterprise Class or z9 Business Class

5.2.2 Programming Requirements

5.2.2.1 Installation Requisites: Installation requisites identify products that are required and *must* be present on the system or products that are not required but *should* be present on the system for the successful installation of this product.

Mandatory installation requisites identify products that are required on the system for the successful installation of this product.

Figure 7. Target System Mandatory Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5650-ZOS	z/OS	V02.01.00 or higher	N/A	No

Note: Installation might require migration to new z/OS releases to be service supported. See http://www.ibm.com/systems/z/os/zos/support/zos_eos_dates.html.

Conditional installation requisites identify products that are *not* required for successful installation of this product but can resolve such things as certain warning messages at installation time.

Enterprise COBOL Developer Trial has no conditional installation requisites.

5.2.2.2 Operational Requisites: Operational requisites are products that are required and *must* be present on the system or products that are not required but *should* be present on the system for this product to operate all or part of its functions.

Mandatory operational requisites identify products that are required for this product to operate its basic functions.

Figure 8. Target System Mandatory Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5650-ZOS	z/OS V02.01.00 or higher	z/OS Language Environment® and Program Management, required to compile and run COBOL applications

Note: Ensure that the PTF(s) for the following APAR is installed on your target system.

- PI84516 (z/OS V2R3 Language Environment)
- PI83544 and PI84517 (z/OS V2R1/V2R2 Language Environment)

Conditional operational requisites identify products that are *not* required for this product to operate its basic functions but are required at run time for this product to operate specific functions.

Target System Conditional Operational Requisites

- z/OS XML System Services, V02.01.00 (5650-ZOS)
- CICS® Transaction Server for z/OS V5.01.00 (5655-Y04)
- CICS Transaction Server for z/OS Value Unit Edition V5.01.00 (5722-DFJ)
- CICS Transaction Server for z/OS V4.02.00 (5655-S97)
- IBM DB2® 12.00.00 for z/OS (5650-DB2)
- IBM DB2 12 for z/OS Value Unit Edition (5770-AF3)
- IBM DB2 for z/OS V11.01.00 (5615-DB2)
- IBM DB2 for z/OS Value Unit Edition V11.01.00 (5697-P43)
- IBM IMS™ V14.00.00 (5635-A05)
- IBM IMS Transaction Manager Value Unit Edition V14.00.00 (5655-TM3)
- IBM IMS Database Value Unit Edition V14.00.00 (5655-DSE)
- IMS V13.01.00 (5635-A04)
- IMS Transaction Manager Value Unit Edition V13.01.00 (5655-TM2)
- IMS Database Value Unit Edition V13.01.00 (5655-DSM)
- DFSORT element of z/OS V02.00.00 (5650-ZOS)
- IBM z/OS High Level Assembler/MVS™ and VM and VSE V01.06.00 or later (5696-234)
- 31-bit SDK for z/OS Java™ Technology Edition V08.00.00 (5655-DGG)
- 31-bit SDK for z/OS Java Technology Edition V07.00.00 (5655-W43)
- 31-bit SDK for z/OS Java Technology Edition V06.00.00 (5655-R31)
- z/OS V02.01.00 Client Web Enablement Toolkit (5650-ZOS APAR OA46575)
- IBM Debug for z Systems® V14.01.00 (5655-Q50)
- Debug Tool for z/OS, V13.01.00 (5655-Q10)
- IBM Fault Analyzer for z/OS, V14.01.00 (5655-Q41)
- Fault Analyzer for z/OS, V13.01.00 (5655-Q11)
- IBM File Manager for z/OS, V14.01.00 (5655-Q42)
- File Manager for z/OS, V13.01.00 (5655-Q12)
- IBM Application Performance Analyzer for z/OS, V14.01.00 (5655-Q49)

- Application Performance Analyzer for z/OS, V13.01.00 (5655-Q09)
- IBM Developer for z Systems, V14.00.00 (5724-T07) (formerly IBM Rational® Developer for z Systems, V9.00.00)
- IBM Application Delivery Foundation for z Systems, V03.01.00 (5655-AC6)
- IBM Application Delivery Intelligence, V05.00.00 (5725-Y87)
- IBM Application Discovery and Delivery Intelligence, V05.00.00 (5737-B66)
- COBOL Report Writer V01.04.00 (5798-DYR,5798-DZX)
- IBM Automatic Binary Optimizer for z/OS V01.03.00 (5697-AB1)
- Enterprise COBOL for z/OS V05.01.00 (5655-W32)
- Enterprise COBOL for z/OS V04.02.00(5655-S71)
- Enterprise PL/I for z/OS V05.01.00 (5655-PL5)
- Enterprise PL/I for z/OS V04.05.00 (5655-W67)
- XL C/C++ with Enterprise COBOL (You must use the XL C/C++ feature of z/OS V02.01.00 (5650-ZOS) , or later.)
- IBM VS FORTRAN V02.01.00 (5668-806, 5688-087)

Note: COBOL requires a 31-bit Java SDK, 64-bit Java technology is not currently supported.

5.2.2.3 Toleration/Coexistence Requisites: Toleration/coexistence requisites identify products that must be present on sharing systems. 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 environment at different time intervals.

Enterprise COBOL Developer Trial has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites: Negative requisites identify products that must *not* be installed on the same system as this product.

Enterprise COBOL Developer Trial has no negative requisites.

5.2.3 DASD Storage Requirements

Enterprise COBOL Developer Trial libraries can reside on all supported DASD types.

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

Figure 9. Total DASD Space Required by Enterprise COBOL Developer Trial

Library Type	Total Space Required in 3390 Trks
Target	4547
Distribution	4555
File System	30

Notes:

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

- U** Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not need to refer to other tables or program directories for the data set size.
- S** Shared data set, allocated by this product and used by this product and other products. To determine the correct storage needed for this data set, add the storage size given in this table to those given in 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 other products. This data set is *not* allocated by this product. To determine the correct storage for this data set, add the storage size given in this table to those given in 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.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old release and reclaim the space that was used by the old release and any service that had been installed. You can determine whether 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 about the names and sizes of the required data sets, see 6.1.8, "Allocate SMP/E Target and Distribution Libraries" on page 24.

3. Abbreviations used for the file system path type are as follows.

- N** New path, created by this product.
- X** Path created by this product, but might 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 can be changed.
- The default block size of the data set can be changed.
- The data set can be merged with another data set that has equivalent characteristics.

- The data set can be either a PDS or a PDSE, except for SIGYCOMP, and AIGYMOD1, which must be PDSEs.

5. All target libraries listed have the following attributes:

- These data sets can be SMS-managed, but they are not required to be SMS-managed.
- These data sets are not required to reside on the IPL volume.
- The values in the "Member Type" column are not necessarily the actual SMP/E element types that are identified in the SMPMCS.

6. All target libraries that are listed and contain load modules have the following attributes:

- These data sets can be in the LPA, but they are not required to be in the LPA.
- These data sets can be in the LNKLST.
- These data sets are not required to be APF-authorized.
- Enterprise COBOL Developer Trial requires that the SMPLTS data set must be a PDSE. If your existing SMPLTS is a PDS, you will need to allocate a new PDSE and copy your existing SMPLTS into it and then change the SMPLTS DDDEF entry to indicate the new PDSE data set.

The following figures describe the target and distribution libraries and file system paths required to install Enterprise COBOL Developer Trial. The storage requirements of Enterprise COBOL Developer Trial must be added to the storage required by other programs that have data in the same library or path.

Note: Use the data in these tables to determine 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 Enterprise COBOL Developer Trial Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C M	L R C L	No. of 3390 Trks	No. of DIR Blks
SIGYCOMP	LMOD	ANY	U	PDSE	U	0	4500	n/a
SIGYMAC	MACRO	ANY	U	PDS	FB	80	10	5
SIGYPROC	PROC	ANY	U	PDS	FB	80	2	5
SIGYSAMP	SAMP	ANY	U	PDS	FB	80	35	10

Figure 11. Enterprise COBOL Developer Trial File System Paths

DDNAME	T Y P E	Path Name
SIGYHFS	N	/usr/lpp/IBM/cobol/dtv6r2/bin/IBM

Figure 12. Storage Requirements for Enterprise COBOL Developer Trial 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
AIGYHFS	U	PDS	VB	255	10	5
AIGYMOD1	U	PDSE	U	0	4500	n/a
AIGYSRC1	U	PDS	FB	80	45	12

5.3 FMIDs Deleted

Installing Enterprise COBOL Developer Trial might result in the deletion of other FMIDs. To see which FMIDs will be deleted, examine the ++VER statement in the SMPMCS of the product.

If you do not want to delete these FMIDs at this time, install Enterprise COBOL Developer Trial into separate SMP/E target and distribution zones.

Note: These FMIDs are not automatically deleted from the Global Zone. If you want to delete these FMIDs from the Global Zone, use the SMP/E REJECT NOFMID DELETEFMID command. See the SMP/E Commands book for details.

5.4 Special Considerations

COBOL and COBOL Developer Trial Co-existence:

Enterprise COBOL for z/OS, Enterprise COBOL Value Unit Edition for z/OS and Enterprise COBOL Developer Trial for z/OS, cannot be installed in the same CSI zone, or share the same target and distribution data set names.

PDSE Considerations:

Enterprise COBOL Developer Trial uses the "partitioned data set extended" or PDSE format for the SIGYCOMP target library. There are some operational differences between PDS and PDSE data sets. The PDS format may be shared by more than one z/OS system and no special precautions are necessary. However the PDSE format may only be shared by z/OS systems which are part of a sysplex or which are connected using Global Resource Serialization (are in a GRS complex). If z/OS systems share use of a PDSE data set outside of a sysplex or GRS environment, you may experience severe problems when the data set is updated. This is due to the fact that PDSE directory information is cached in storage, and when the data set is updated from one system the other system(s) have no knowledge of the update, and their cached directory information will be incorrect.

You must take care not to share the SIGYCOMP data set between z/OS systems unless they are in a sysplex or are connected in a GRS complex. If you need to share the content of the SIGYCOMP data set, a separate copy must be created for each z/OS 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 Enterprise COBOL Developer Trial.

Please note the following points:

- If you want to install Enterprise COBOL Developer Trial 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.
- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing Enterprise COBOL Developer Trial

6.1.1 SMP/E Considerations for Installing Enterprise COBOL Developer Trial

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of Enterprise COBOL Developer Trial.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 13. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

Figure 13. SMP/E Options Subentry Values

Subentry	Value	Comment
DSSPACE	(500,500,500)	3390 DASD tracks
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 Enterprise COBOL Developer Trial:

Figure 14. Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
IGYWEDIT	MACRO	ISPF editor macro to aid users in making changes to the sample jobs (Optional)	IBM.HAKH620.F3
IGYWSMPE	SMP/E	Sample job to define and prime a new SMP/E CSI (Optional)	IBM.HAKH620.F3
IGYWRECV	RECEIVE	Sample RECEIVE job	IBM.HAKH620.F3
IGYWZFS	ALLOCATE	Sample job to allocate a new zFS data set (Optional)	IBM.HAKH620.F3
IGYWALOC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HAKH620.F3
IGYISMKD	MKDIR	Sample job to invoke the supplied IGYMKDIR EXEC to allocate HFS or zFS paths	IBM.HAKH620.F3
IGYWDDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HAKH620.F3
IGYWAPLY	APPLY	Sample APPLY job	IBM.HAKH620.F3
IGYWIVP1	IVP	Sample job to verify installation has been successful	IBM.HAKH620.F3
IGYWIVP2	IVP	Sample job to verify installation has been successful	IBM.HAKH620.F3
IGYWACPT	ACCEPT	Sample ACCEPT job	IBM.HAKH620.F3

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.7, “Perform SMP/E RECEIVE” on page 23) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 14 on page 20 to find the appropriate relfile data set.

You can also copy the sample installation jobs from the tape or product files by submitting the following job. Depending on your distribution medium, use either the //TAPEIN or the //FILEIN DD statement and comment out or delete the other statement. Before you submit the job, add a job card and change the lowercase parameters to uppercase values to meet the requirements of your site.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//*****
/* Make the //TAPEIN DD statement below active if you install*
/* from a CBPDO tape by uncommenting the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HAKH620.F3,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.HAKH620.F3,UNIT=tunit,
/* VOL=SER=AKH620,LABEL=(4,SL),
/* DISP=(OLD,KEEP)
/******
/* Make the //FILEIN DD statement below active for
/* downloaded DASD files.
/******
/*FILEIN DD DSN=IBM.HAKH620.F3,UNIT=SYSALLDA,DISP=SHR,
/* VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(20,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
SELECT MEMBER=(IGYISMKD,IGYWACPT,IGYWALOC,IGYWAPLY)
SELECT MEMBER=(IGYWDEF,IGYWEDIT,IGYWIVP1,IGYWIVP2)
SELECT MEMBER=(IGYWRECV,IGYWSMPE,IGYWZFS)
/*

```

See the following information to update the statements in the previous sample:

TAPEIN:

- tunit** is the unit value that matches the product package.
- volser** is the volume serial that matches the product package.
- x** is the tape file number that indicates the location of the data set name on the tape.
- See the documentation that is provided by CBPDO for the location of IBM.HAKH620.F3 on the tape.

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 are stored.
- dasdvol** is the volume serial of the DASD device where the output data set resides.

SYSIN:

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

6.1.4 Run REPORT MISSINGFIX

The SMP/E REPORT MISSINGFIX command helps you determine whether any FIXCAT PTFs exist that are applicable and have not yet been installed. If you find that there are PTFs that need to be installed, we recommend that you install them, before installing COBOL Developer Trial Version 6.2.

Before you install Enterprise COBOL Developer Trial, it is recommended that you run REPORT MISSINGFIX. This requires a global zone with ZONEINDEX entries that describe all the target and distribution libraries to be reported on, the SET BOUNDARY command must specify the global zone.

Here is a sample REPORT MISSINGFIX command to run against your z/OS CSI, (include previous versions):

```
SET BDY(globalzone).
REPORT MISSINGFIX ZONES(targetzone)
FIXCAT(IBM.TargetSystem-RequiredService.Enterprise-COBOL.V5R1,
        IBM.TargetSystem-RequiredService.Enterprise-COBOL.V5R2,
        IBM.TargetSystem-RequiredService.Enterprise-COBOL.V6R1,
        IBM.TargetSystem-RequiredService.Enterprise-COBOL.V6R2).
```

For more information about REPORT MISSINGFIX, see the SMP/E manuals.

6.1.5 Set up ISPF Editor Macro (Optional)

To aid you in making changes to the SMP/E installation jobs (IGYISMKD, IGYWACPT, IGYWALOC, IGYWAPLY, IGYWDDEF, IGYWIVP1, IGYWIVP2, IGYWRECV, IGYWSMPE, and IGYWZFS), an ISPF editor macro, called IGYWEDIT, is supplied and is copied to your output data set **jcl-library-name** above. (See Figure 14 on page 20).

This macro lets you substitute proper values for all of the required variables in those jobs instead of making the changes repeatedly by hand.

Edit macro IGYWEDIT and provide the proper values, then copy it to any data set in your TSO logon procedure SYSEXEC concatenation. Consult the instructions in the macro for more information.

6.1.6 Allocate and Initialize the SMP/E CSI (Optional)

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

If you install into existing SMP/E data sets, make sure that you have enough space.

If you plan to install into an existing zone, the cluster should already have been allocated and primed. You can go on to the next step to perform a SMP/E RECEIVE.

To install into a new zone, use the IGYWSMPE sample job to allocate and prime the SMPCSI cluster. 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.

6.1.7 Perform SMP/E RECEIVE

If you have obtained Enterprise COBOL Developer Trial as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the Enterprise COBOL Developer Trial FMIDs, service, and HOLDDATA that are included on the CBPDO package. For more information, see the documentation that is included in the CBPDO.

You can also choose to edit and submit sample job IGYWRECV to perform the SMP/E RECEIVE for Enterprise COBOL Developer Trial. 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 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job IGYWALOC to allocate the SMP/E target and distribution libraries for Enterprise COBOL Developer Trial. 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.

6.1.9 Allocate, create and mount ZFS Files (Optional)

This job allocates, creates a mountpoint, and mounts zFS data sets.

If you plan to install Enterprise COBOL Developer Trial into a new z/OS UNIX file system, you can edit and submit the optional IGYWZFS job to perform the following tasks:

- Create the z/OS UNIX file system
- Create a mount point
- Mount the z/OS UNIX file system on the mountpoint

Consult the instructions in the sample job for more information.

The recommended z/OS UNIX file system type is zFS. The recommended mount point is *usr/lpp/IBM/cobol/dtv6r2*.

Before running the sample job to create the z/OS UNIX file system, you must ensure that OMVS is active on the driving system. zFS must be active on the driving system if you are installing Enterprise COBOL Developer Trial into a file system that is zFS.

If you create a new file system for this product, consider updating the BPXPRMxx PARMLIB member to mount the new file system at IPL time. This action can be helpful if an IPL occurs before the installation is completed.

```
MOUNT FILESYSTEM('#dsn')
MOUNTPOINT('usr/lpp/IBM/cobol/dtv6r2')
MODE(RDRW) /* can be MODE(READ) */
TYPE(ZFS) PARM('AGGRGROW') /* zFS, with extents */
```

See the following information to update the statements in the previous sample:

#dsn is the name of the data set holding the z/OS UNIX file system.

usr/lpp/IBM/cobol/dtv6r2 is the name of the mount point where the z/OS UNIX file system will be mounted.

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

6.1.10 Allocate File System Paths

The target system HFS or zFS data set must be mounted on the driving system when running the sample IGYISMKD job since the job will create paths in the HFS or zFS.

Before running the sample job to create the paths in the file system, you must ensure that OMVS is active on the driving system and that the target system's HFS or zFS file system is mounted to the driving system. zFS must be active on the driving system if you are installing Enterprise COBOL Developer Trial into a file system that is zFS.

If you plan to install Enterprise COBOL Developer Trial into a new HFS or zFS file system, you must create the mountpoint and mount the new file system to the driving system for Enterprise COBOL Developer Trial.

The recommended mountpoint is *usr/lpp/IBM/cobol/dtv6r2*.

Edit and submit sample job IGYISMKD to allocate the HFS or zFS paths for Enterprise COBOL Developer Trial. Consult the instructions in the sample job for more information.

If you create a new file system for this product, consider updating the BPXPRMxx PARMLIB member to mount the new file system at IPL time. This action can be helpful if an IPL occurs before the installation is completed.

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

6.1.11 Create DDDEF Entries

Edit and submit sample job IGYWDDEF to create DDDEF entries for the SMP/E target and distribution libraries for Enterprise COBOL Developer Trial. 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.

6.1.12 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job IGYWAPLY to perform an SMP/E APPLY CHECK for Enterprise COBOL Developer Trial. Consult the instructions in the sample job for more information.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holdata/390holddata.html>. The latest HOLDDATA may identify HIPER and FIXCAT APARs for the FMIDs you will be installing. An APPLY CHECK will help you determine if any HIPER or FIXCAT APARs are applicable to the FMIDs you are installing. If there are any

applicable HIPER or FIXCAT APARs, the APPLY CHECK will also identify fixing PTFs that will resolve the APARs, if a fixing PTF is available.

You should install the FMIDs regardless of the status of unresolved HIPER or FIXCAT APARs. However, do not deploy the software until the unresolved HIPER and FIXCAT APARs have been analyzed to determine their applicability. That is, before deploying the software either ensure fixing PTFs are applied to resolve all HIPER or FIXCAT APARs, or ensure the problems reported by all HIPER or FIXCAT APARs are not applicable to your environment.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the APPLY CHECK. The SMP/E root cause analysis identifies the cause only of *errors* and not of *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings, instead of errors).

Here are sample APPLY commands:

- a. To ensure that all recommended and critical service is installed with the FMIDs, receive the latest HOLDDATA and use the APPLY CHECK command as follows

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
FIXCAT(IBM.TargetSystem-RequiredService.Enterprise-COBOL.V6R2)
GROUPEXTEND .
```

Some HIPER APARs might not have fixing PTFs available yet. You should analyze the symptom flags for the unresolved HIPER APARs to determine if the reported problem is applicable to your environment and if you should bypass the specific ERROR HOLDS in order to continue the installation of the FMIDs.

This method requires more initial research, but can provide resolution for all HIPERs that have fixing PTFs available and are not in a PE chain. Unresolved PEs or HIPERs might still exist and require the use of BYPASS.

- b. To install the FMIDs without regard for unresolved HIPER APARs, you can add the BYPASS(HOLDCLASS(HIPER)) operand to the APPLY CHECK command. This will allow you to install FMIDs even though one or more unresolved HIPER APARs exist. After the FMIDs are installed, use the SMP/E REPORT ERRSYSMODS command to identify unresolved HIPER APARs and any fixing PTFs.

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
FIXCAT(IBM.TargetSystem-RequiredService.Enterprise-COBOL.V6R2)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER),HOLDFIXCAT) .
..any other parameters documented in the program directory
```

This method is quicker, but requires subsequent review of the Exception SYSMOD report produced by the REPORT ERRSYSMODS command to investigate any unresolved HIPERs. If

you have received the latest HOLDDATA, you can also choose to use the REPORT MISSINGFIX command and specify Fix Category IBM.ProductInstall-RequiredService to investigate missing recommended service.

It is recommended that you run REPORT MISSINGFIX specifying your COBOL category against OTHER target zones, to identify required PTFs that are missing from those other target zones. This is particularly important if COBOL is installed in a target zone different to LE (refer to 6.1.4, “Run REPORT MISSINGFIX” on page 22).

If you bypass HOLDDs during the installation of the FMIDs because fixing PTFs are not yet available, you can be notified when the fixing PTFs are available by using the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink.

2. After you take actions that are 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 applies all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

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

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

6.1.13 Run the Installation Verification Programs

Make sure you have applied the PTFs for the Language Environment and Program Management APARs listed in Figure 8 on page 13, then edit and submit sample jobs IGYWIVP1 and IGYWIVP2 to verify that you have installed Enterprise COBOL Developer Trial correctly. Refer to the instructions in the sample jobs for more information and expected output.

Expected Return Codes and Messages: You will receive return codes of 0 if these jobs run correctly.

Note: If PTF(s) for the Language Environment not already applied, the IGYWIVP1 sample job will fail at link step with a return code of 8 and a message:

```
IEW2456E 9207 SYMBOL IGZXLERR UNRESOLVED. MEMBER COULD NOT BE INCLUDED FROM THE DESIGNATED CALL LIBRARY.
```

6.1.14 Perform SMP/E ACCEPT

Edit and submit sample job IGYWACPT to perform an SMP/E ACCEPT CHECK for Enterprise COBOL Developer Trial. 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 PRE, ID, REQ, and IFREQ on the ACCEPT CHECK. The SMP/E root cause analysis identifies the cause of *errors* but not *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings rather than errors).

Before you use SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. In this way, you can save the entries that are produced from JCLIN in the distribution zone whenever a SYSMOD that contains inline JCLIN is accepted. For more information about the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E Commands book for details.

After you take actions that are 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 accepts all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

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

If PTFs that contain replacement modules are accepted, SMP/E ACCEPT processing will link-edit or bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages that indicate unresolved external references, which will result in a return code of 4 during the ACCEPT phase. You can ignore these messages, because the distribution libraries are not executable and the unresolved external references do not affect the executable system libraries.

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

6.2 Activating Enterprise COBOL Developer Trial

6.2.1 File System Execution

If you mount the file system in which you have installed Enterprise COBOL Developer Trial in read-only mode during execution, then you do not have to take further actions to activate Enterprise COBOL Developer Trial.

6.2.2 Product Customization

The publication *IBM Enterprise COBOL for z/OS Customization Guide (SC27-8712-01)* contains the necessary information to customize and use Enterprise COBOL Developer Trial.

The `/usr/lpp/IBM/cobol/dtv6r2/bin/cob2` is a shell script. If you put it in a location other than the default Enterprise COBOL File System Path `/usr/lpp/IBM/cobol/dtv6r2`, then change the environment variable `COBOL_INSTALL_DIR` as needed.

7.0 Notices

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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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Program Directory for IBM Enterprise COBOL Developer Trial for z/OS, September 2017

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