IBM

Program Directory for

IBM Content Manager OnDemand

Enhanced Retention Management

for z/OS

V10.5.0

Program Number 5697-CM1

FMID J272A52

for Use with
z/OS

Document Date: March 2020

> **Note**
>
> Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 21.

Contents

Figures

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 Content Manager OnDemand Enhanced Retention Management. This publication refers to IBM Content Manager OnDemand Enhanced Retention Management as IBM CMOD ERM V10.5.0.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic program materials and documentation for IBM CMOD ERM V10.5.0.

- 3.0, "Program Support" on page 6 describes the IBM support available for IBM CMOD ERM V10.5.0.

- 4.0, "Program and Service Level Information" on page 8 lists the APARs (program level) and PTFs (service level) that have been incorporated into IBM CMOD ERM V10.5.0.

- 5.0, "Installation Requirements and Considerations" on page 9 identifies the resources and considerations that are required for installing and using IBM CMOD ERM V10.5.0.

- 6.0, "Installation Instructions" on page 15 provides detailed installation instructions for IBM CMOD ERM V10.5.0. It also describes the procedures for activating the functions of IBM CMOD ERM V10.5.0, or refers to appropriate publications.

Before installing IBM CMOD ERM V10.5.0, 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; after which, keep the documents for your 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 CMOD ERM V10.5.0 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 IBM CMOD ERM V10.5.0 are included on the CBPDO tape.

Do not use this program directory if you install IBM CMOD ERM V10.5.0 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 IBM CMOD ERM V10.5.0 Description

Content Manager OnDemand was designed to store and manage extremely high volumes of computer generated documents. As companies are faced with a variety of regulatory policies and litigation, special design considerations must be taken into account to properly manage such a large collection of data. Content Manager OnDemand Enhanced Retention Management provides the ability to hold or suspend the retention of documents so that the expiration for those documents can be prevented until the hold is released.

1.2 IBM CMOD ERM V10.5.0 FMID

IBM CMOD ERM V10.5.0 consists of the following FMID:

J272A52

2.0 Program Materials

An IBM program is identified by a program number. The program number for IBM CMOD ERM V10.5.0 is 5697-CM1.

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 IBM CMOD ERM V10.5.0. 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 15 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for IBM CMOD ERM V10.5.0 in the *CBPDO Memo To Users Extension*.

Figure 1 describes the program file content for IBM CMOD ERM V10.5.0. 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. Program File Content				
Name	**ORG**	**RECFM**	**LRECL**	**BLK SIZE**
SMPMCS	SEQ	FB	80	6400
IBM.J272A52.F1	PDSE	U	0	6144
IBM.J272A52.F2	PDSE	FB	80	8800

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IBM CMOD ERM V10.5.0.

2.3 Program Publications

The following sections identify the basic publications for IBM CMOD ERM V10.5.0.

Figure 2 on page 4 identifies the basic unlicensed publications for IBM CMOD ERM V10.5.0. Those that are in softcopy format publications can be obtained from the IBM Content Manager OnDemand Knowledge Center at: http://www.ibm.com/support/knowledgecenter/SSQHWE_10.5.0

Figure 2. Basic Material: Unlicensed Publications		
Publication Title	**Form Number**	**Media Format**
IBM Content Manager OnDemand Enhanced Retention Management for z/OS Program Directory	GI13-4558-01	Web
IBM Content Manager OnDemand Enhanced Retention Management for z/OS License Program Spec	LC27-9025-01	Web
Enhanced Retention Management Guide		Web
Note:		
To view any of these documents, go to the following website:		
• The IBM Content Manager OnDemand Knowledge Center at: http://www.ibm.com/support/knowledgecenter/SSQHWE_10.5.0		

2.4 Program Source Materials

No program source materials or viewable program listings are provided for IBM CMOD ERM V10.5.0.

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 3 during the installation of IBM CMOD ERM V10.5.0.

Figure 3 (Page 1 of 2). Publications Useful During Installation		
Publication Title	**Form Number**	**Media Format**
IBM SMP/E for z/OS User's Guide	SA23-2277	http://www.ibm.com/shop/publications/order/
IBM SMP/E for z/OS Commands	SA23-2275	http://www.ibm.com/shop/publications/order/
IBM SMP/E for z/OS Reference	SA23-2276	http://www.ibm.com/shop/publications/order/

Figure 3 (Page 2 of 2). Publications Useful During Installation		
Publication Title	**Form Number**	**Media Format**
IBM SMP/E for z/OS Messages, Codes, and Diagnosis	GA32-0883	http://www.ibm.com/shop/ publications/order/

3.0 Program Support

This section describes the IBM support available for IBM CMOD ERM V10.5.0.

3.1 Program Services

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

3.2 Preventive Service Planning

Before you install IBM CMOD ERM V10.5.0, 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 6.1.7, "Perform SMP/E APPLY" on page 17 for a sample APPLY command

If you obtained IBM CMOD ERM V10.5.0 as part of a CBPDO, HOLDDATA is included.

If the CBPDO for IBM CMOD ERM V10.5.0 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://wwww.ibm.com/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 CMOD ERM V10.5.0 are included in Figure 4.

Figure 4. PSP Upgrade and Subset ID		
UPGRADE	**SUBSET**	**Description**
ODMP1050	J272A52	OND Enhanced Retention Management

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 7 identifies the component IDs (COMPID) for IBM CMOD ERM V10.5.0.

Figure 5. Component IDs			
FMID	**COMPID**	**Component Name**	**RETAIN Release**
J272A52	5655H3900	OND Enhanced Retention Manager	A52

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of IBM CMOD ERM V10.5.0. 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

No APARs have been incorporated into IBM CMOD ERM V10.5.0.

4.2 Service Level Information

No PTFs against this release of IBM CMOD ERM V10.5.0 have been incorporated into the product package.

Frequently check the IBM CMOD ERM V10.5.0 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.PRODUCTINSTALL-REQUIREDSERVICE)** 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 IBM CMOD ERM V10.5.0. 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 IBM CMOD ERM V10.5.0.

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	V02.03.00	N/A	No
Note:				
• Unix System Services tailored and operational				
• TCP/IP tailored and operational				
• Language Environment tailored and operational				
• Linkage Editor/Program Binder tailored and operational				
• The XL C/C++ libraries available				

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-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html.

5.2 Target System Requirements

This section describes the environment of the target system required to install and use IBM CMOD ERM V10.5.0.

IBM CMOD ERM V10.5.0 installs in the DBS (P115) 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

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. These products are specified as PREs or REQs.

IBM CMOD ERM V10.5.0 has no mandatory installation requisites.

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. These products are specified as IF REQs.

IBM CMOD ERM V10.5.0 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.

IBM CMOD ERM V10.5.0 has no mandatory operational requisites.

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. These products are specified as IF REQs.

Figure 7. Target System Conditional Operational Requisites		
Program Number	**Product Name and Minimum VRM/Service Level**	**Function**
5650-ZOS	z/OS V02.03.0 or later	XL C/C++ Compiler

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.

IBM CMOD ERM V10.5.0 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.

IBM CMOD ERM V10.5.0 has no negative requisites.

5.2.3 DASD Storage Requirements

IBM CMOD ERM V10.5.0 libraries can reside on all supported DASD types.

Figure 8 on page 12 lists the total space that is required for each type of library.

Figure 8. Total DASD Space Required by IBM CMOD ERM V10.5.0		
Library Type	**Total Space Required in 3390 Trks**	**File System Description**
Target	5	
Distribution	5	
File System(s)	1	zFS or HFS

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 6.1.5, "Allocate SMP/E Target and Distribution Libraries" on page 17.

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.

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, with the exception of SARSLOAD which must be APF-authorized.

The following figures describe the target and distribution libraries and file system paths required to install IBM CMOD ERM V10.5.0. The storage requirements of IBM CMOD ERM V10.5.0 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 9. Storage Requirements for IBM CMOD ERM V10.5.0 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
SARSLOAD	LOAD	ANY	E	PDSE	U	0	5	N/A

Figure 10. IBM CMOD ERM V10.5.0 File System Paths		
DDNAME	T Y P E	Path Name
SARSEBIN	P	/usr/lpp/ars/V10R5M0/bin/exits/IBM/

Figure 11. Storage Requirements for IBM CMOD ERM V10.5.0 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
AARSOBJ1	E	PDSE	U	0	5	N/A

5.3 FMIDs Deleted

Installing IBM CMOD ERM V10.5.0 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 IBM CMOD ERM V10.5.0 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

IBM CMOD ERM V10.5.0 has no special considerations for the target system.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IBM CMOD ERM V10.5.0.

Please note the following points:

- If you want to install IBM CMOD ERM V10.5.0 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.

- All SMP/E sample jobs have been shipped in the base FMID, H272A50.

6.1 Installing IBM CMOD ERM V10.5.0

6.1.1 SMP/E Considerations for Installing IBM CMOD ERM V10.5.0

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of IBM CMOD ERM V10.5.0.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 12. 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.

Subentry	Value	Comment
Figure 12. SMP/E Options Subentry Values		
DSSPACE	Default	Standard SMP/E Default
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 IBM CMOD ERM V10.5.0:

Figure 13. Sample Installation Jobs			
Job Name	**Job Type**	**Description**	**RELFILE**
ARSREC	RECEIVE	Sample RECEIVE job	IBM.H272A50.F7
ARSAPP	APPLY	Sample APPLY job	IBM.H272A50.F7
ARSACC	ACCEPT	Sample ACCEPT job	IBM.H272A50.F7
Note:			
All SMP/E sample jobs have been shipped in the base FMID, H272A50.			

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.4, "Perform SMP/E RECEIVE" on page 17) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 13 on page 15 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=*
//TAPEIN   DD DSN=IBM.H272A50.F7,UNIT=tunit,
//         VOL=SER=volser,LABEL=(x,SL),
//         DISP=(OLD,KEEP)
//FILEIN   DD DSN=IBM.H272A50.F7,UNIT=SYSALLDA,DISP=SHR,
//         VOL=SER=filevol
//OUT      DD DSNAME=jcl-library-name,
//         DISP=(NEW,CATLG,DELETE),
//         VOL=SER=dasdvol,UNIT=SYSALLDA,
//         SPACE=(TRK,(100,10,45))
//SYSUT3   DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN    DD *
    COPY INDD=xxxxIN,OUTDD=OUT
/*
```

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.H272A50.F7 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 Perform SMP/E RECEIVE

If you have obtained IBM CMOD ERM V10.5.0 as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the IBM CMOD ERM V10.5.0 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 ARSREC to perform the SMP/E RECEIVE for IBM CMOD ERM V10.5.0. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages:RC=00

6.1.5 Allocate SMP/E Target and Distribution Libraries

All data sets used by IBM CMOD ERM V10.5.0 are allocated by other products, so no new allocations are required.

6.1.6 Create DDDEF Entries

All DDDEFs used by IBM CMOD ERM V10.5.0 are created by other products, so no new DDDEFs are required.

6.1.7 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job ARSAPP to perform an SMP/E APPLY CHECK for IBM CMOD ERM V10.5.0. Consult the instructions in the sample job for more information.

   Perform an SMP/E APPLY CHECK for IBM CMOD ERM V10.5.0.

   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)
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)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER)) .
  ..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.

If you bypass HOLDs 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.

6.1.8 Perform SMP/E ACCEPT

Edit and submit sample job ARSACC to perform an SMP/E ACCEPT CHECK for IBM CMOD ERM V10.5.0. Consult the instructions in the sample job for more information.

Perform an SMP/E ACCEPT CHECK for IBM CMOD ERM V10.5.0.

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.

Expected Return Codes and Messages from ACCEPT if no PTFs are being installed: You will receive a return code of 0 if this job runs correctly.

6.1.9 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command identifies requisites for products that are installed in separate zones. This command also creates APPLY and ACCEPT commands in the SMPPUNCH data set. You can use the APPLY and ACCEPT commands to install those cross-zone requisites that the SMP/E REPORT CROSSZONE command identifies.

After you install IBM CMOD ERM V10.5.0, 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 that describe all the target and distribution libraries to be reported on.

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

6.2 Product Customization

The publication *Enhanced Retention Management Guide* contains the necessary information to customize and use IBM CMOD ERM V10.5.0.

7.0 Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

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".

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the

    IBM Director of Licensing
    IBM Corporation
    North Castle Drive
    Armonk, New York 10504-1785
    USA

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

    Intellectual Property Licensing
    Legal and Intellectual Property Law
    IBM Japan, Ltd.
    19-21, Nihonbashi-Hakozakicho, Chuo-ku
    Tokyo 103-8510, Japan

7.1 Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

21

Reader's Comments

Program Directory for IBM Content Manager OnDemand Enhanced Retention Management, March 2020

We appreciate your input on this publication. Feel free to comment on the clarity, accuracy, and completeness of the information or give us any other feedback that you might have.

Use one of the following methods to send us your comments:

1. Send an email to comments@us.ibm.com

2. Use the form on the Web at:

www.ibm.com/software/data/rcf/

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

IBM or any other organizations will only use the personal information that you supply to contact you about the issues that you submit.

Thank you for your participation.

IBM

Printed in USA