



**Program Directory for  
IBM Content Manager  
OnDemand Enhanced Retention Manager  
for z/OS**

V9.5.0

Program Number 5697-CMD

FMID J272953

for use with  
z/OS

Document Date: September 2014

GI13-2332-00

**Note**

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 20.

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## 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 Manager. This publication refers to IBM Content Manager OnDemand Enhanced Retention Manager as IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic program materials and documentation for IBM Content Manager OnDemand Enhanced Retention Manager V9.5.
- 3.0, "Program Support" on page 6 describes the IBM support available for IBM Content Manager OnDemand Enhanced Retention Manager V9.5.
- 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 Content Manager OnDemand Enhanced Retention Manager V9.5.
- 5.0, "Installation Requirements and Considerations" on page 9 identifies the resources and considerations that are required for installing and using IBM Content Manager OnDemand Enhanced Retention Manager V9.5.
- 6.0, "Installation Instructions" on page 15 provides detailed installation instructions for IBM Content Manager OnDemand Enhanced Retention Manager V9.5. It also describes the procedures for activating the functions of IBM Content Manager OnDemand Enhanced Retention Manager V9.5, or refers to appropriate publications.

Before installing IBM Content Manager OnDemand Enhanced Retention Manager V9.5, 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. 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 Content Manager OnDemand Enhanced Retention Manager V9.5 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 Content Manager OnDemand Enhanced Retention Manager V9.5 are included on the CBPDO tape.

Do not use this program directory if you install IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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.

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## **1.1 IBM Content Manager OnDemand Enhanced Retention Manager V9.5 Description**

ODF is the report distribution feature for IBM Content Manager OnDemand for z/OS systems. ODF provides an easy way to automatically group reports and portions of reports together and distribute the reports to multiple users. ODF distributions can be sent to the JES spool with the appropriate options for printing, a z/OS data set, or in an email as an attachment.

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## **1.2 IBM Content Manager OnDemand Enhanced Retention Manager V9.5 FMIDs**

IBM Content Manager OnDemand Enhanced Retention Manager V9.5 consists of the following FMIDs:

J272953

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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for IBM Content Manager OnDemand Enhanced Retention Manager V9.5 is 5697-CMD.

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 Content Manager OnDemand Enhanced Retention Manager V9.5. 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 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 Content Manager OnDemand Enhanced Retention Manager V9.5 in the *CBPDO Memo To Users Extension*.

Figure 1 describes the program file content for IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

*Figure 1. Program File Content*

<b>Name</b>	<b>O R G</b>	<b>R E C M</b>	<b>L R E C L</b>	<b>BLK SIZE</b>
SMPMCS	SEQ	FB	80	6400
IBM.J272953.F1	PDS	U	0	6144
IBM.J272953.F2	PDS	FB	80	8800

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### 2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

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## 2.3 Program Publications

The following sections identify the basic publications for IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

### 2.3.1 Basic Program Publications

Figure 2 identifies the basic unlicensed program publications for IBM Content Manager OnDemand Enhanced Retention Manager V9.5. One copy of each of these publications is included when you order the basic materials for IBM Content Manager OnDemand Enhanced Retention Manager V9.5. Additional copies can be obtained from the IBM Publications Website at URL:

<http://www.ibm.com/shop/publications/order/> Contact your IBM representative for further assistance.

<i>Figure 2. Basic Material: Unlicensed Publications</i>	
Publication Title	Form Number
IBM Content Manager OnDemand Enhanced Retention Manager for z/OS Program Directory	GI13-2332-00
IBM Content Manager OnDemand Enhanced Retention Manager for z/OS License Program Spec	GC27-6382-00

Figure 3 identifies the basic unlicensed softcopy publications for IBM Content Manager OnDemand Enhanced Retention Manager V9.5. Those publications that are in softcopy format can be obtained from the IBM Publications Center website at <http://www.ibm.com/shop/publications/order/>.

<i>Figure 3. Basic Material: Unlicensed Softcopy Publications</i>		
Publication Title	Form Number	Media Format
IBM Content Manager OnDemand Enhanced Retention Management Guide	SC19-3362-01	Web
<b>Note:</b> To view any of these documents, go to one of the following websites:		
<ul style="list-style-type: none"><li>• The IBM Publications Center Website (<a href="http://www.elink.ibm.link.ibm.com/publications/servlet/pbi.wss">http://www.elink.ibm.link.ibm.com/publications/servlet/pbi.wss</a>) Select your locale, and search for the manuals.</li><li>• The IBM Content Manager OnDemand Knowledge Center at: <a href="http://www.ibm.com/support/knowledgecenter/SSQHWE/welcome">http://www.ibm.com/support/knowledgecenter/SSQHWE/welcome</a></li></ul>		

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## 2.4 Program Source Materials

No program source materials or viewable program listings are provided for IBM Content Manager OnDemand Enhanced Retention Manager V9.5.



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## 2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 4 on page 5 during the installation of IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

<i>Figure 4. Publications Useful During Installation</i>		
<b>Publication Title</b>	<b>Form Number</b>	<b>Media Format</b>
<i>IBM SMP/E for z/OS User's Guide</i>	SA22-7773	<a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a>
<i>IBM SMP/E for z/OS Commands</i>	SA22-7771	<a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a>
<i>IBM SMP/E for z/OS Reference</i>	SA22-7772	<a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a>
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA22-7770	<a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a>

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## 3.0 Program Support

This section describes the IBM support available for IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

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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 you install IBM Content Manager OnDemand Enhanced Retention Manager V9.5, 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 6.1.5, "Perform SMP/E APPLY" on page 17 for a sample APPLY command

If you obtained IBM Content Manager OnDemand Enhanced Retention Manager V9.5 as part of a CBPDO, HOLDDATA is included.

If the CBPDO for IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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 IBM Content Manager OnDemand Enhanced Retention Manager V9.5 are included in Figure 5

*Figure 5. PSP Upgrade and Subset ID*

UPGRADE	SUBSET	Description
ODMP950	J272953	OND Enhanced Retention Manager

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### 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 6 on page 7 identifies the component IDs (COMPID) for IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

<i>Figure 6. Component IDs</i>			
<b>FMID</b>	<b>COMPID</b>	<b>Component Name</b>	<b>RETAIN Release</b>
J272953	5655H3900	OND Enhanced Retention Manager	953

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## 4.0 Program and Service Level Information

This section identifies the program and relevant service levels of IBM Content Manager OnDemand Enhanced Retention Manager V9.5. 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.

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### 4.1 Program Level Information

The following APAR fixes against previous releases of IBM Content Manager OnDemand Enhanced Retention Manager V9.5 have been incorporated into this release. They are listed by FMID.

- FMID J272953

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### 4.2 Service Level Information

No PTFs against this release of IBM Content Manager OnDemand Enhanced Retention Manager V9.5 have been incorporated into the product package.

Frequently check the IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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-REQUIRESERVICE)** operand on your APPLY CHECK command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating IBM Content Manager OnDemand Enhanced Retention Manager V9.5. 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.

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### 5.1 Driving System Requirements

This section describes the environment of the driving system required to install IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

#### 5.1.1 Machine Requirements

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

#### 5.1.2 Programming Requirements

Figure 7. Driving System Software Requirements

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
Any <b>one</b> of the following:				
5694-A01	z/OS	V01.13.00	N/A	No
5655-G44	IBM SMP/E for z/OS	V03.06.00	N/A	No
<b>Note:</b> <ul style="list-style-type: none"><li>• Unix System Services tailored and operational.</li><li>• TCP/IP tailored and operational.</li><li>• Language Environment tailored and operational.</li><li>• Linkage Editor/Program Binder tailored and operational.</li><li>• The XL C/C++ libraries available.</li><li>• IBM Tivoli Directory Server (IBM TDS, LDAP) for z/OS libraries available</li></ul>				

**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 V03.05.00.

**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](http://www.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 Content Manager OnDemand Enhanced Retention Manager V9.5.

IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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 Content Manager OnDemand Enhanced Retention Manager V9.5 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 Content Manager OnDemand Enhanced Retention Manager V9.5 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. These products are specified as PREs or REQs.

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.

Program Number	Product Name and Minimum VRM/Service Level	Function
5694-A01	z/OS V1.13.0 or later	XL C/C++

### 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.

## 5.2.3 DASD Storage Requirements

IBM Content Manager OnDemand Enhanced Retention Manager V9.5 libraries can reside on all supported DASD types.

Figure 9 on page 12 lists the total space that is required for each type of library.

<i>Figure 9. Total DASD Space Required by IBM Content Manager OnDemand Enhanced Retention Manager V9.5</i>		
<b>Library Type</b>	<b>Total Space Required in 3390 Trks</b>	<b>File System Description</b>
Target	5	
Distribution	5	
File System(s)	1	

### Note:

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.

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 with the exception of SARSLOAD and AARSOBJ1 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 LNKLIST.
- 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 Content Manager OnDemand Enhanced Retention Manager V9.5. The storage requirements of IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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 IBM Content Manager OnDemand Enhanced Retention Manager V9.5 Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G A N I Z A T I O N	R E C O R D S	L I B R A R Y	No. of 3390 Trks	No. of DIR Blks
SARSLOAD	LOAD	ANY	S	PDSE	U	0	5	N/A

Figure 11. IBM Content Manager OnDemand Enhanced Retention Manager V9.5 File System Paths

DDNAME	T Y P E	Path Name
SARSEBIN	N	/usr/lpp/ars/V9R0M0/bin/exits/IBM/

Figure 12. Storage Requirements for IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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	U	PDSE	U	0	5	N/A

### 5.3 FMIDs Deleted

Installing IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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 Content Manager OnDemand Enhanced Retention Manager V9.5 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 Content Manager OnDemand Enhanced Retention Manager V9.5 has no special considerations for the target system.

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## 6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

Please note the following points:

- If you want to install IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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, H272950

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### 6.1 Installing IBM Content Manager OnDemand Enhanced Retention Manager V9.5

#### 6.1.1 SMP/E Considerations for Installing IBM Content Manager OnDemand Enhanced Retention Manager V9.5

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of IBM Content Manager OnDemand Enhanced Retention Manager V9.5.

#### 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.

<i>Figure 13. SMP/E Options Subentry Values</i>		
<b>Subentry</b>	<b>Value</b>	<b>Comment</b>
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 Content Manager OnDemand Enhanced Retention Manager V9.5:

Job Name	Job Type	Description	RELFILE
ARSREC	RECEIVE	Sample RECEIVE job	IBM.H272950.F9
ARSAPP	APPLY	Sample APPLY job	IBM.H272950.F9
ARSACC	ACCEPT	Sample ACCEPT job	IBM.H272950.F9

**Note:**  
All SMP/E sample jobs have been shipped in the base FMID, H272950

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 14 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.H272950.F9,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.H272950.F9,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jc1-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 IBM.H272950.F9

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 Content Manager OnDemand Enhanced Retention Manager V9.5 as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the IBM Content Manager OnDemand Enhanced Retention Manager V9.5 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 Content Manager OnDemand Enhanced Retention Manager V9.5. Consult the instructions in the sample job for more information.

**Expected Return Code and Messages from RECEIVE: RC=00**

**Expected Return Code and Messages from ARSMZFS: RC=00**

## 6.1.5 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 Content Manager OnDemand Enhanced Retention Manager V9.5. 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/holddata/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 the 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 Code and Messages from APPLY CHECK: RC=00**

**Expected Return Codes and Messages from APPLY: RC=00**

## 6.1.6 Perform SMP/E ACCEPT

Edit and submit sample job ARSACC to perform an SMP/E ACCEPT CHECK for IBM Content Manager OnDemand Enhanced Retention Manager V9.5. 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 only *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 Code and Messages from ACCEPT CHECK: RC=00**

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 Code and Messages from ACCEPT: RC=00**

## 6.1.7 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 Content Manager OnDemand Enhanced Retention Manager V9.5, 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.

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## 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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## Reader's Comments

### Program Directory for IBM Content Manager OnDemand Enhanced Retention Manager, September 2014

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