



**CONSOLIDATED MAIL OUTPATIENT
PHARMACY (CMOP)
INSTALLATION GUIDE**

Version 2.0

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CHAPTER ONE: REMOTE MEDICAL CENTER

Remote Medical Center

Introduction

The Consolidated Mail Outpatient Pharmacy (CMOP) software package establishes an interface for the electronic transfer of information between Veterans Affairs Medical Centers and the Consolidated Mail Outpatient Pharmacy host system for an integrated and highly automated outpatient prescription dispensing system.

This installation guide is divided into two sections. The first section should be used by the remote medical centers for the installation of the Consolidated Mail Outpatient Pharmacy (CMOP) software. The second section is for the CMOP host facility.

This version of the CMOP software is designed to selectively install files required for CMOP operations. This means that the host CMOP facility and the remote medical centers will have some differences in the files, routines, and options installed. It is recommended that the package first be loaded into your test account and Outpatient Pharmacy functionality tested by the users.

However, it is not recommended that you test the prescription data transmission functionality. Doing so may cause test data to be transmitted to the HOST facility for dispensing. Once you feel comfortable with the package, the routines should be installed in the production account.

****IMPORTANT****

Outpatient Pharmacy V. 6.0 must be fully patched including recently released patch PSO*6*158, Seq. #156.

CMOP Version 1.0 (if loaded at your site), must be fully patched through PSX*1*11.

For all remote medical centers installing this software, all pharmacy users should be off the system while installing the package. DUZ must be defined and valid, and DUZ(0) must be equal to "@" before installing the software. Prior to **installation**, all pre-installation tasks should be completed.

Pre-Installation

Routine Mapping Considerations for Install (ALPHA, DSM, VMS systems only)

CMOP exports fields in the Outpatient Pharmacy (OP) PRESCRIPTION file (#52) containing compiled cross references. These compiled routines in the Outpatient Pharmacy namespace (PSO) will be regenerated on installation. Therefore, prior to install, any mapped OP routines (PSO*) must be unmapped. Once install is completed, these map sets **must** be rebuilt to restore routine mapping for Outpatient Pharmacy.

Mail Group Setup

A **public** mail group **must** be set up with the name, CMOP MANAGERS. The mail group **must** have at least one **active** user as a member for the CMOP software to operate.

MailMan Server Option Setup

This software is designed to transmit data via MailMan between the remote medical centers and the host facility. MailMan servers are used to accomplish this data transmission.

For a server to function it must be associated with an entry in the BULLETIN file (#3.6). The selected bulletin entry must point to a mail group with at least one **active** user.

The installation process will set up the OPTION (#19) and BULLETIN file (#3.6) entries as shown in the example below.

Successful operation of the CMOP software is highly dependent on MailMan processing of the communications between the software and the user. The developer recommends that the medical centers and CMOP host facilities use the Sliding Window Protocol (SWP) for the best results.



The site must enter CMOP Managers in the MAIL GROUP field of the PSX CMOP entry in the BULLETIN file (#3.6).

Mail messages are used extensively to relate the status of jobs, deliver reports, and advise users of data or transmission problems. The transmission mechanism for prescription data is the MailMan server option S.PSXX CMOP SERVER. MailMan delivers data to this option which queues numerous background jobs to handle processing and releasing of prescriptions. Information Resources Management (IRM) should note that problems with MailMan may directly impact on the performance of the CMOP software.

Example

VA FileMan 21.0

Select OPTION: INQUIRE TO FILE ENTRIES

OUTPUT FROM WHAT FILE: OPTION // <RET> (5464 entries)
 Select OPTION NAME: PSXX CMOP SERVER Consolidated Mail Outpatient
 Pharmacy Server
 ANOTHER ONE: <RET>
 STANDARD CAPTIONED OUTPUT? YES// <RET> (YES)
 DISPLAY COMPUTED FIELDS? NO// <RET> (NO)
 DISPLAY AUDIT TRAIL? NO// <RET> (NO)

NAME: PSXX CMOP SERVER
 MENU TEXT: Consolidated Mail Outpatient Pharmacy Server
 TYPE: server CREATOR: POSTMASTER
 LOCK: PSXCMOPMGR PACKAGE: CMOP
 DESCRIPTION: This server acts as the receiver for data transmissions and
 other communications for the Consolidated Mail Outpatient Pharmacy system.
 ROUTINE: PSXSERV SERVER BULLETIN: PSX CMOP
 SERVER ACTION: RUN IMMEDIATELY SERVER MAIL GROUP: CMOP MANAGERS
 SUPPRESS BULLETIN: YES, SUPPRESS IT
 UPPERCASE MENU TEXT: CONSOLIDATED MAIL OUTPATIENT P

Select OPTION NAME: <RET>

VA FileMan Version 2 1.0

Select OPTION: Inquire to File Entries

OUTPUT FROM WHAT FILE: PACKAGE// BULLETIN (90 entries)
 Select BULLETIN NAME: PSX CMOP
 ANOTHER ONE: <RET>
 STANDARD CAPTIONED OUTPUT? YES// <RET> (YES)
 DISPLAY COMPUTED FIELDS? NO// <RET> (NO)

NAME: PSX CMOP SUBJECT: CMOP BULLETIN
 MESSAGE: ----CMOP message----
 MAIL GROUP: CMOP MANAGERS
 DESCRIPTION: This bulletin is required by the Consolidated Mail Outpatient
 Pharmacy system.

Select BULLETIN NAME: <RET>



The site must enter CMOP Managers in the MAIL GROUP field of the PSX CMOP entry in the BULLETIN file (#3.6).

Kernel Site Parameter Setup

MailMan patch XM*7.1*36 should be installed. When the patch is in place, set the field NETWORK - MAX LINES @ SEND TO to null as in the following example. This will allow larger CMOP transmissions to build without bumping into the preset Kernel site parameter limitations.

Example:

```
MSM>D ^XUP
```

```
Setting up programmer environment  
terminal type set to : C-VT100
```

```
Select OPTION NAME: XMKSP  
Kernel Site Parameters for MailMan
```

```
Select KERNEL SITE PARAMETERS DOMAIN NAME: (Enter Your Site's Domain Name)  
TIME ZONE: CST// ^NETWORK - MAX LINES @ SEND TO  
NETWORK - MAX LINES @ SEND TO: 15000// @  
SURE YOU WANT TO DELETE? Y (Yes)  
NETWORK - MAX LINES RECEIVED: 15000// ^
```

```
Select KERNEL SITE PARAMETERS DOMAIN NAME: <RET>
```

Resource Device Setup for Remote Medical Centers

The PSX resource device is set up to control the data transmissions to the CMOP host facility. See Resources in the Kernel Systems Manual for instructions on how to set up the PSX resource device as shown below. If this device is not set up correctly, CMOP data **will not** be transmitted properly.

From the System Manager Menu Option, Select Device. From Device Management select, Edit Devices by Specific Types. From there, select the *Resource Device Edit* option to set up the resource device entry.



Note: The device must be named PSX and set up as follows:

```
NAME: PSX                                $I: PSX  
LOCATION OF TERMINAL: NA                   RESOURCE SLOTS: 1  
TYPE: RESOURCES
```

*****WARNING*****

You **must** review the entries for the RX CONSULT file (#54) which are standardized for use with the Consolidated Mail Outpatient Pharmacy system. These entries are listed on the following page. If these entries (1-20) do **not** match entries 1-20 of your RX CONSULT file (#54), the installation of the CMOP software will be aborted and no updating will take place.

If your RX CONSULT file (#54) **does not match**, you must coordinate any necessary changes with the Outpatient Pharmacy staff to ensure all pointers, etc., to this file are resolved. Failure to validate data in this file and the respective entries in DRUG file (#50) which point to this file may cause errors on Outpatient Pharmacy (OP) prescription labels.

Installation

Contact your local Customer Service for the CMOP software.

The CMOP software can be loaded into your test or production accounts using the Kernel Installation Distribution System (KIDS) options as described in the installation example.

This version (2.0) of Consolidated Mail Outpatient Pharmacy requires, at least, the following VA software applications. This software is not included in CMOP and **must be installed** (including all released patches) **prior** to the installation of the CMOP V. 2.0 software to ensure complete functionality.

<u>Remote Medical Center</u>	<u>Minimum Version Required</u>
Kernel	8.0
MailMan	7.1
VA FileMan	21.0
National Drug File (NDF)	3.16
Outpatient Pharmacy (OP)	6.0 (must have patch number PSO*6*158, Seq. #156)

The user must receive the “Install Completed” notification before using the package.

Version 2.0 install was created using the Kernel (8.0) Installation and Distribution System (KIDS). The KIDS installation will selectively install all options used by the CMOP software according to the type site, CMOP Host or remote medical center. The result is that the host CMOP will retain only the host functionality and the remote medical centers will retain only the remote functionality.

MSM sites should install the software on the print server. On completion, the PSX* routines **must** be moved to all compute servers.

Example of Install



If your site maps Outpatient Pharmacy (OP) routines, turn off mapping. Once the CMOP software is installed, you can re-map OP routines.

```
Select OPTION NAME:      EVE          Systems Manager Menu
Select Systems Manager Menu Option:  Programmer Options
Select Programmer Options Option:    Kernel Installation & Distribution
System
Select Kernel Installation & Distribution System Option:  Installation
```

Remote Medical Center

Select Installation Option: LOAD a Distribution
Enter a Host File: CMOP_2.KID

KIDS Distribution saved on Feb 21, 1997@10:52:35
Comment: CMOP 2.0

This Distribution contains Transport Globals for the following Package(s):
CMOP 2.0

OK to continue? NO// YES

Want to Continue with Load? YES// <RET>
Loading Distribution...

Want to RUN the Environment Check Routine? YES// <RET>
CMOP 2.0

Will first run the Environment Check Routine, PSXRENV

Consolidated Mail Outpatient Pharmacy Install for Remote Medical Center.

Validating required RX CONSULT FILE entries.....
CMOPH 2.0

Will first run the Environment Check Routine, PSXHENV

CMOPH 2.0 Build will not be installed, Transport Global deleted!

Use INSTALL NAME: CMOP 2.0 to install this Distribution.

Select Installation Option: Verify Checksums in Transport Global

Select INSTALL NAME: CMOP 2.0 Loaded from Distribution
2/21/97@11:02:42

=> CMOP 2.0 ;Created on Feb 21, 1997@10:52:35

DEVICE: *[Select Device]*

PACKAGE: CMOP 2.0 Feb 21, 1997 11:04 am PAGE 1

111 Routine checked, 0 failed.

Select Installation Option: INstall Package(s)
Select INSTALL NAME: CMOP 2.0 Loaded from Distribution
2/21/97@11:02:42

=> CMOP 2.0 ;Created on Feb 21, 1997@10:52:35

This Distribution was loaded on Feb 21, 1997@11:02:42 with header of
CMOP 2.0 ;Created on Feb 21, 1997@10:52:35

It consisted of the following Install(s):
CMOP 2.0

CMOP 2.0

Will first run the Environment Check Routine, PSXRENV

Consolidated Mail Outpatient Pharmacy Install for Remote Medical Center.

[Medical centers that do not have a previous version of the CMOP software installed will see the following. Please enter the first letter of the CMOP facility you will be using.] [Sites that already have CMOP software installed will not see this part of the install.]

This install of the Consolidated Mail Outpatient Pharmacy software at your medical center requires that you select the CMOP Host Facility which will be receiving you Outpatient Pharmacy prescription data.

Select one of the following:

- B BEDFORD
- D DALLAS
- L LEAVENWORTH
- W WEST LA
- M MURFREESBORO
- H HINES

Select the CMOP to RECEIVE YOUR DATA : HINES (Enter the first letter of correct CMOP facility.)

You have chosen HINES CMOP to receive your transmissions.

[The following is common to all sites except for the "Note" following Files 550-550.2. The "Note" will only be present if these files already exist on the system.]

Validating required RX CONSULT FILE entries.....

Install Questions for CMOP 2.0

50 DRUG (Partial Definition)
Note: You already have the 'DRUG' File.

52 PRESCRIPTION (Partial Definition)
Note: You already have the 'PRESCRIPTION' File.

52.5 RX SUSPENSE (Partial Definition)
Note: You already have the 'RX SUSPENSE' File.

54 RX CONSULT (including data)
Note: You already have the 'RX CONSULT' File.
I will MERGE your data with mine.

550 CMOP SYSTEM
Note: You already have the 'CMOP SYSTEM' File.

Remote Medical Center

550.1 CMOP RX QUEUE

Note: You already have the 'CMOP RX QUEUE' File.

550.2 CMOP TRANSMISSION

Note: You already have the 'CMOP TRANSMISSION' File.

Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: *[Select Print Device]*

Install Started for CMOP 2.0 :
Feb 21, 1997@11:05:04

Installing Routines:
Feb 21, 1997@11:05:42

Installing Data Dictionaries:
Feb 21, 1997@11:06:15

Installing Data:
Feb 21, 1997@11:06:17

Installing PACKAGE COMPONENTS:

Installing BULLETIN

Installing SECURITY KEY

Installing INPUT TEMPLATE

Installing OPTION
Feb 21, 1997@12:14:23

Running Post-Initialization Routine: ^PSXPOST

Initialization complete!!

Updating Routine file...

The following Routines were created during this install:
CMOP 2.0

PSOXZA
PSOXZA1
PSOXZA2
PSOXZA3
PSOXZA4
PSOXZA5
PSOXZA6
PSOXZA7
PSOXZA8

Updating KIDS files...

CMOP 2.0 Installed.

Feb 21, 1997@12:14:36

Install Message sent

```
-----+-----+
100%  |           25           50           75           |
Complete +-----+-----+
```

Install Completed

Post-Installation

 To ensure the integrity of all prescription data, the Consolidated Mail Outpatient Pharmacy software should ALWAYS function at Veterans Affairs Medical Centers (VAMCs) with the Outpatient Pharmacy VERIFICATION turned ON.

Journaling Globals

Journaling of the PSX global is recommended for all Remote medical centers facilities.

Security Keys Used by CMOP Remote Medical Centers

The security keys listed below control the access necessary to operate the CMOP software. These keys should be assigned by the Chief of Pharmacy or a designee.

PSXCMOPMGR	This security key locks the <i>CMOP Site Manager Menu</i> .
PSX XMIT	Only holders of this security key and the PSXCMOPMGR key may transmit data to the CMOP using suspense options. This key also locks the <i>Transmission Menu</i> on the <i>CMOP Site Manager Menu</i> .
PSXRTRAN	This key allows the holder to access the <i>Re-transmit CMOP Data</i> option which re-sends previously transmitted data to the CMOP.
PSXAUTOX	This security key allows users access to the <i>Setup Auto-transmission</i> option. This key in combination with the PSXCMOPMGR and PSX XMIT are required to set up the auto-transmission schedule.
PSNMGR	This security key is used to lock the <i>CMOP Mark/Unmark (Single drug)</i> and the <i>Loop CMOP Match to Local Drug File</i> options which use the NATIONAL DRUG file (#50.6) to mark and match items for CMOP dispense. This key is not exported with CMOP.

PSXMAIL

This security key enables a site manager to specify who receives the various mail messages and alerts generated by the CMOP process. The user(s) assigned this key must be active in the system. When the mail messages are generated, the software will look for users with the PSXMAIL key who are active. If there are no users with this key or there are users with this key who are inactive, then the software will send the messages to all holders with the PSXCMOPMGR key.

PSXRESUB

This security key is used to lock the *Resubmit CMOP Rx* option and enables a designated user to resubmit Rx's to the CMOP.

Resource Requirements

A. Hardware Requirements

There are no additional hardware requirements for this package.

B. Routines

	<u>Routine Size</u>
PSXACK	3698
PSXACT	4735
PSXARC	4337
PSXARC1	4947
PSXARC2	2625
PSXARPT	3239
PSXAUTO	5208
PSXBKD	4881
PSXBKG	3930
PSXBLD	4542
PSXBLD1	3981
PSXCH	1270
PSXCMOP	3514
PSXCMOP0	2157
PSXCMOP1	3469
PSXCOPAY	1672
PSXCOSTU	3569
PSXCSCMN	3683
PSXCSDA	3436
PSXCSDC	2288
PSXCSDC1	3265
PSXCSDC2	1697
PSXCSHI	3315
PSXCSHI1	1444
PSXCSLG1	747
PSXCSLOG	3696
PSXCSMN1	3312
PSXCSMON	3074
PSXCSSUM	3435
PSXCST	3205
PSXCST1	1663
PSXCSTPG	3380
PSXCSUTL	3362

PSXDENT	419
PSXDQUE	2244
PSXDRPT	3133
PSXEDIT	4292
PSXEDRG	1739
PSXEDUTL	2754
PSXERR	4613
PSXERR1	1182
PSXHENV	1795
PSXH SYS	8523
PSXJOB	1327
PSXLBL	3315
PSXLBL1	4508
PSXLBL2	3346
PSXLBLNR	2408
PSXLBLPT	670
PSXLBLT	3183
PSXLBLU	4867
PSXLIST	4008
PSXLKUP	2381
PSXLTST	653
PSXMARK	4768
PSXMISC	3230
PSXMISC1	4137
PSXMSG	4416
PSXMST	2697
PSXNEW	3881
PSXNOCMP	2096
PSXNOTE	5235
PSXOCMOP	2232
PSXOPUTL	3358
PSXPLOG	851
PSXPOST	2494
PSXPURG	4642
PSXPURG1	1188
PSXQRY	6744
PSXQUE	4147
PSXRACT	3202
PSXRCVRY	3970
PSXRECV	4332
PSXRECV1	4449
PSXREF	1820
PSXREJ	3987
PSXREL	2229
PSXRENV	3589

PSXRESUB	2782
PSXRHLP	3486
PSXRPPL	5114
PSXRPPL1	4212
PSXRPT	6734
PSXRSTAT	4941
PSXRSUS	4600
PSXRSYU	3759
PSXRTN	5127
PSXRTN1	5040
PSXRTR	2648
PSXRTRAN	7067
PSXRXQU	3315
PSXRXU	3062
PSXSERV	1850
PSXSITE	4573
PSXSMRY	4840
PSXSND	3733
PSXSTAT	5094
PSXSTP	547
PSXSTRT	3438
PSXSUDCN	2987
PSXSYS	3388
PSXTNRPT	4667
PSXUNHLD	2434
PSXUNREL	2829
PSXUTL	3156
PSXVCK	3831
PSXVCK1	4729
PSXVEND	5905
PSXVIEW	2923
PSXVND	5420
PSXVPN	2625

Total routines 111

Total size 382686

C. Disk Storage

This version of Consolidated Mail Outpatient Pharmacy Version 2.0 contains 111 routines. These routines require approximately 3 82686 disk space.

Response Time Monitor hooks have been placed in the following routine:

<u>Routine</u>	<u>Purpose</u>
PSXRSUS	Data Transmission

D. Files

This package requires 19 files in addition to those of the Kernel and other files to which it points. Information about all files, including these can be obtained by using the VA FileMan to generate a list of file attributes. Please refer to the documentation for Outpatient Pharmacy V. 6.0 and National Drug File V. 3.16 for detailed information on resource requirements for these software packages.

E. Remote Medical Center Files

<u>File Numbers</u>	<u>File Names</u>
550	CMOP SYSTEM
550.1	CMOP RX QUEUE
550.2	CMOP TRANSMISSION
50	DRUG
50.6	NATIONAL DRUG
51.5	ORDER UNIT
52	PRESCRIPTION
52.5	RX SUSPENSE
54	RX CONSULT

CHAPTER TWO: CMOP HOST FACILITY

CMOP Host Facility

Introduction

*****Please Note*****

National Drug File Version 3.16 **must** be installed before installing the Consolidated Mail Outpatient Pharmacy (CMOP) software.

The Consolidated Mail Outpatient Pharmacy (CMOP) software package establishes an interface for the electronic transfer of information between Veterans Affairs Medical Centers (VAMCs) and the Consolidated Mail Outpatient Pharmacy (CMOP) host system for an integrated and highly automated outpatient prescription dispensing system.

This installation guide is divided into two sections. The first section should be used by the remote medical centers for the installation of Consolidated Mail Outpatient Pharmacy software. The second section is for the host CMOP facility.

This version of the CMOP software is designed to selectively install files required for CMOP operations. This means that the host CMOP facility and the remote medical centers will have some differences in the files, routines, and options installed. It is recommended that the package first be loaded into your test account and tested by the users. Once you feel comfortable with the package, the software should be installed into your production account.

For all host facilities installing this software, all users should be off the system while installing the software. DUZ must be defined and valid, and DUZ(0) must be equal to "@" before installation. Prior to **installing** the software all pre-installation tasks should be completed.

All CMOP host facilities are MSM sites. The diskette(s) containing the CMOP routines PSX* may be loaded into your test or production account using the Kernel Installation & Distribution System options as described in the section Example of Install.

This version (2.0) of Consolidated Mail Outpatient Pharmacy requires, at least, the following VA software applications. This software is not included in CMOP and **must be installed** (including all released patches) **prior** to the installation of the CMOP V. 2.0 software to ensure complete functionality.

<u>Host Facility</u>	<u>Minimum Version Required</u>
Kernel	8.0
MailMan	7.1
VA FileMan	21.0
National Drug File (NDF)	3.16

Version 2.0 install was created using the Kernel (8.0) Installation and Distribution System (KIDS). The KIDS installation will selectively install all options used by the CMOP software according to the type site, CMOP Host or remote medical center. The result is that the host CMOP will retain only the host functionality and the remote medical centers will retain only the remote functionality.

MSM sites should install the software on the print server. Once the install is finished on the print server, move all PSX* routines to all compute servers.

CMOP Host Facility Install for Printer

****IMPORTANT****

Each CMOP host facility should have a label printer(s) set up with new label stock forms for printing CMOP labels should the automated dispensing equipment fail. This will allow the CMOP to print labels for filling prescriptions manually and should only be used in an emergency situation.

The following barcode information may be helpful in setting up barcode labels.

Barcodes

This version of Consolidated Mail Outpatient Pharmacy includes the ability to print barcodes on the refill request form and on the multi-RX request form. The Kernel group responsible for the TERMINAL TYPE file (#3.2) has defined two new fields. To use the barcode capability, you should define new terminal types, for example, P-DS220 BARCODER and P-MT290 BARCODER. All parameters for these new types should be the same as those for the corresponding terminal type without the barcode capability. The two new fields (BAR CODE ON and BAR CODE OFF) should be entered.

For the DATASOUTH 220

BAR CODE ON =
 *27,"\$70s",*97,"H",\$\$('\$D(X):"04",X="M":"04",X="S":"02",X="L":"10",1:"04"),*94,
 "BDB"

Note: The letter following the \$70 is a lower -case s.

BAR CODE OFF =*94,"G",*27,"\$70c"

Note: The letter following the \$70 is a lower -case c.

For the DATASOUTH XL300 DD

BAR CODE ON =
 *27,"[lw",*27,\$s70",*94,"H",\$\$('\$D(X):"04",X="M":"04",X="S":"02",X="L":"10",1:
 "04"),*94,"BDB"

BAR CODE OFF=*94,"G",*27,"\$c70",*27,"[2w",!

For the MT-290

BAR CODE ON =

*26,"F0",\$\$('\$D(X):2,X="M":2,X="S":1,X="L":6,1:2),";000",*25,*20,"*

BAR CODE OFF = "*" ,*20,!,?\$\$(\$D(X1):X1,1:0),\$\$(\$D(X2):X2,1:"")

For the OTC-560

BAR CODE ON =*27,"[;",\$S('\$D(X):3,X="M":6,X="L":12,1:3),"}",*27,"[3t"

BAR CODE OFF = *27,"[0t"

For the GENICOM 4440

BAR CODE ON =*27,"[;",\$S('\$D(X):3,X="M":6,X="L":12,1:3),"}",*27,"[3t"

BAR CODE OFF = *27,"[0t"

In the DEVICE file (#3.5), each pharmacy label printer should have the appropriate entries in both the SUBTYPE and DEFAULT SUBTYPE fields.

On the printers, the form length must be set to 24 lines. This is feature 2 on the DS-220 and part of the main menu for the MT-290. Additionally, feature 46 on the DS-220, ESCAPE SEQUENCE DISABLE, must be set to 0 and the MT-290 must have the required barcode cartridge installed.

Barcodes can only be printed on the four inch labels. If you are still using the older three inch labels, you can not print barcodes.

While this section describes printing of barcodes on only the OTC-560, GENICOM-4440, DS-220, and MT-290 printers, the function is device independent and can be used with any printer which can print barcodes and which can be set for a form length of either four inches or 24 lines. The following information is intended as a guide for setting up the barcode fields for other printers.

For the DATASOUTH-200

BAR CODE ON=

*27,"[1w",*27,"\$70s",*94,"H",\$\$('\$D(X):"04",X="M":"04",X="S":"02",X="L":"10",1:"04"),*94,"BDB"

BAR CODE OFF=*94,"G",*27,"\$70c",*27,"[2w",!

For the MT-661

BAR CODE ON=

*27,"[<4h",*94,\$S(\$X<60:"T450",1:"T850"),*94,"W9;5;1",*94,"B1;35;1;3",*13

BAR CODE OFF=*13,*10,*27,"[<4l",*27,"[5w"

NOTE: The character after the [4 in the BAR CODE OFF above is a lower case L

For the DATASOUTH A600

BAR CODE OFF=\$C(94),"*", \$C(94),"PN"

BAR CODE ON=\$C(94),"PY", \$C(94),"M", \$C(94),"H03", \$C(94),\$S(\$X<80:"T0450",1:"T0850"), \$C(94),"BYB"

For the DATASOUTH XL400

BAR CODE OFF=*94,"G",*27,"\$70c"

BAR CODE ON=*27,"\$70s",*94,"H", \$S('\$D(X):"04",X="M":"04",X="S":"02",X="L":"10",1:"04"),*94,"BDB"

For the DATASOUTH PERFORMAX AS-600

BAR CODE OFF=\$C(94),"*", \$C(94),"PN"

BAR CODE ON=\$C(94),"PY", \$C(94),"M", \$C(94),"H03", \$C(94),\$S(\$X<80:"T0450"

Each of the two fields is the argument of a MUMPS Write command.

Three parameters are used.

X is the barcode height. Values can be S, M, or L. If X is undefined or not equal to one of these, the default value of S is used. S is 2/10 inch for the DS-220 and 1/6 inch for the MT-290. M is 4/10 inch for the DS-200 and 1/3 inch for the MT-290. L is one inch for both.

X1 is the value of \$X at the left edge of the barcode. If X1 is undefined, the default value of 0 is used.

X2 is the data to be barcoded. Remember that the code 39 character set which is being used by the VA is a limited subset of the ASCII character set containing only the numbers, upper case letters and eight punctuation characters. In most cases, any other characters are not printed. For example, the barcode for the string "123abc" will be the same as that for the string "123".

On most printers, printing a barcode is a graphics operation which causes the value of \$Y to be something other than the line count from the top of the page. Forms with barcodes on them must use a form feed to go to the top of the next form rather than a counted number of line feeds. This is the reason that printers being used to print barcodes on outpatient pharmacy labels must be set for a form length of 24 lines or four inches.

Pre-Installation

Pharmacists Releasing CMOP Prescriptions

1. All users (pharmacists) who will be releasing prescriptions must be entered by IRM as users on the CMOP DHCP system through the *Add a New User to the System* option under the *User Management* option on the *Systems Manager* menu. Once the users are entered a VA FileMan list of the NUMBER and NAME fields from the NEW PERSON file (#200) should be printed. These internal entry numbers for the users should be entered into the vendor system as the IDs for the pharmacists. This will be the information passed back to DHCP to identify the person responsible for the prescription. If the number received by DHCP from the vendor is not a valid pharmacist, that is, the user does not hold the PSXRPH security key, release data will not be filed for the prescriptions.
2. All pharmacists should be assigned the PSXRPH security key. Only pharmacists with this key will be allowed to be entered for manual release of prescriptions on the **VISTA** CMOP system. The manual release of prescriptions is necessary if **VISTA** labels are used for dispensing.

Mail Group Setup

A **public** mail group **must** be set up with the name, CMOP MANAGERS. The mail group **must** have at least one **active** user as a member for the CMOP software to operate.

MailMan Server Option Setup

This software is designed to transmit data via MailMan between the remote medical centers and the host facility. MailMan servers are used to accomplish this data transmission.

For a server to function it must be associated with an entry in the BULLETIN file (#3.6). The selected bulletin entry must point to a mail group with at least one **active** user.

A mail group **must** be set up with the name, CMOP MANAGERS. The mail group **must** have at least one **active** user as a member for the CMOP software to operate. It is recommended that at a minimum the CMOP System Manager be a member of this mail group.

The installation process will set up the OPTION (#19) and BULLETIN file (#3.6) entries as shown in the example below.

Successful operation of the CMOP software is highly dependent on MailMan processing of the communications between the software and the user. The developer recommends that the medical centers and CMOP host facilities use the Sliding Window Protocol (SWP) for the best results.



The site must enter CMOP Managers in the MAIL GROUP field of the PSX CMOP entry in the BULLETIN file (#3.6).

Mail messages are used extensively to relate the status of jobs, deliver reports, and advise users of data or transmission problems. The transmission mechanism for prescription data is the MailMan server option S.PSXX CMOP SERVER. MailMan delivers data to this option which queues numerous background jobs to handle processing and releasing of prescriptions. Information Resources Management (IRM) should note that problems with MailMan may directly impact on the performance of the CMOP software.

Example

VA FileMan 21.0

Select OPTION: INQUIRE TO FILE ENTRIES

```
OUTPUT FROM WHAT FILE: OPTION //      <RET> (5464 entries)
Select OPTION NAME:  PSXX CMOP SERVER      Consolidated Mail Outpatient
Pharmacy Server
ANOTHER ONE:  <RET>
STANDARD CAPTIONED OUTPUT? YES//      <RET> (YES)
DISPLAY COMPUTED FIELDS? NO//      <RET> (NO)
DISPLAY AUDIT TRAIL? NO//      <RET> (NO)
NAME: PSXX CMOP SERVER
  MENU TEXT: Consolidated Mail Outpatient Pharmacy Server
  TYPE: server                                CREATOR: POSTMASTER
  LOCK: PSXCMOPMGR                            PACKAGE: CMOP
  DESCRIPTION: This server acts as the receiver for data transmissions and
other communications for the Consolidated Mail Outpatient Pharmacy system.
  ROUTINE: PSXSERV                            SERVER BULLETIN: PSX CMOP
  SERVER ACTION: RUN IMMEDIATELY              SERVER MAIL GROUP: CMOP MANAGERS
  SUPPRESS BULLETIN: YES, SUPPRESS IT
  UPPERCASE MENU TEXT: CONSOLIDATED MAIL OUTPATIENT P
```

Select OPTION NAME: <RET>

VA FileMan Version 21.0

Select OPTION: Inquire to File Entries

OUTPUT FROM WHAT FILE: PACKAGE// BULLETIN (90 entries)

Select BULLETIN NAME: PSX CMOP

ANOTHER ONE: <RET>

STANDARD CAPTIONED OUTPUT? YES// <RET> (YES)

DISPLAY COMPUTED FIELDS? NO// <RET> (NO)

NAME: PSX CMOP

SUBJECT: CMOP BULLETIN

MESSAGE: ----CMOP message----

MAIL GROUP: CMOP MANAGERS

DESCRIPTION: This bulletin required by the Consolidated Mail Outpatient Pharmacy system.

Select BULLETIN NAME: <RET>



The site must enter CMOP Managers in the MAIL GROUP field of the PSX CMOP entry in the BULLETIN file (#3.6).

Kernel Site Parameter Setup

MailMan patch XM*7.1*36 should be installed. When patch is in place, set the fields NETWORK - MAX LINES @ SEND TO and NETWORK - MAX LINES RECEIVED to null as in the following example. This will allow larger CMOP transmissions to build without bumping into the preset Kernel site parameter limitations.

Example:

MSM>D ^XUP

Setting up programmer environment
terminal type set to : C-VT100

Select OPTION NAME: XMKSP

Kernel Site Parameters for MailMan

Select KERNEL SITE PARAMETERS DOMAIN NAME: **(Enter Your Site's Domain Name)**

TIME ZONE: CST// ^NETWORK - MAX LINES @ SEND TO

NETWORK - MAX LINES @ SEND TO: 15000// @

SURE YOU WANT TO DELETE? Y (Yes)

NETWORK - MAX LINES RECEIVED: 15000// @

SURE YOU WANT TO DELETE? Y (Yes)

Select KERNEL SITE PARAMETERS DOMAIN NAME: <RET>

Resource Device Setup for Host Facility

The PSX resource device is set up to control the data transmissions to the CMOP host facility. See Resources in the Kernel Systems Manual for instructions on how to set up the PSX resource device as shown below. If this device is not set up correctly, CMOP data **will not** be transmitted. From the System Manager Menu Option, Select Device. From Device Management select, Edit Devices by Specific Types. From there, select the *Resource Device Edit* option to set up the resource device entry.



Note: The device must be named PSX and set up as follows:

```
NAME: PSX                                $I: PSX
LOCATION OF TERMINAL: NA                   RESOURCE SLOTS: 1
TYPE: RESOURCES
```

*****WARNING*****

You **must** review the entries for the RX CONSULT file (#54) which are standardized for use with the Consolidated Mail Outpatient Pharmacy system. These entries are listed on the following page. If these entries (1-20) do **not** match entries 1-20 of your RX CONSULT file (#54), the installation of the CMOP software will be aborted and no updating will take place.

If your RX CONSULT file (#54) **does not match**, you must coordinate any necessary changes with the Outpatient Pharmacy staff to ensure all pointers, etc., to this file are resolved. Failure to validate data in this file and the respective entries in DRUG file (#50) which point to this file may cause errors on Outpatient Pharmacy prescription labels.

Rx Consult List

RX CONSULT LIST		MAY 31,1994 14:53	PAGE 1
NUMBER	NAME	TEXT	
1	DROWSINESS	-MAY CAUSE DROWSINESS- Alcohol may intensify this effect. USE CARE when driving or when operating dangerous machinery.	
2	FINISH	IMPORTANT: Finish all this medication unless otherwise directed by prescriber.	
3	EMPTY STOMACH	Take medication on an EMPTY STOMACH 1 hour before or 2-3 hours after a meal unless otherwise directed by your doctor.	
4	NO DAIRY PRODUCTS	Do not take antacids or iron preparations or eat dairy products within 1 hour of taking this medication.	
5	WATER	Take with plenty of WATER.	
6	DISCOLORATION	May cause discolored urine or feces.	
7	DIURETIC K	It may be advisable to drink a full glass of orange juice or eat a banana daily while on this medication.	
8	NO ALCOHOL	DO NOT DRINK ALCOHOLIC BEVERAGES when taking this medication.	
9	ADVICE	DO NOT TAKE non-prescription drugs without medical advice.	
10	WITH FOOD	TAKE WITH FOOD OR MILK.	
11	SUNLIGHT	Avoid prolonged exposure to SUNLIGHT and finish all this medication unless otherwise directed by prescriber.	
12	SHAKE WELL	SHAKE WELL	
13	EXTERNAL	For external use ONLY.	
14	STRENGTH	NOTE DOSAGE STRENGTH	
15	REFRIGERATE	REFRIGERATE -DO NOT FREEZE	
16	DUPLICATE	This prescription CANNOT be refilled without a written duplicate from your physician.	
17	EXPIRATION DATE	Do not use after specified date.	
18	NO REFILL	THIS PRESCRIPTION CANNOT BE REFILLED.	
19	SAME DRUG	This is the same medication you have been getting. Color, size or shape may appear different.	
20	NO TRANSFER	CAUTION: Federal law prohibits the transfer of this drug to any person other than the patient for whom it was prescribed.	

Device Setup for Host CMOP Facility

SETUP OF CMOP DEVICE USED FOR DATA TRANSMISSIONS TO VENDOR SYSTEM *[The following file entry must be added to the DEVICE file (#3.5).]*

```
NAME: CMOP                                $I: 4
ASK PARAMETERS: NO                        PRIORITY AT RUN TIME: 1
VOLUME SET(CPU): PSA                     LOCATION OF TERMINAL: N/A
ASK HOST FILE: NO                         ASK HFS I/O OPERATION: NO
SUPPRESS FORM FEED AT CLOSE: YES         MARGIN WIDTH: 255
FORM FEED: #                             PAGE LENGTH: 66
BACK SPACE: $C(8)
MNEMONIC: CMOP
SUBTYPE: P -OTHER                         TYPE: OTHER
```

The system manager should edit the **AUTOEXEC.BAT** file so that the mode command line reads as follows:

either **MODE COM1:96,8,N,1**

or **MODE COM2:96,8,N,1**

depending on the COM port used by the CMOP device.

In the manager account of the host CMOP PC system (MSM) the port definition of the CMOP device should be set up as follows:

>D ^%ZUCI

UCI: MGR ..Switched to: MGR

>D ^SYSGEN

MSM - System Generation Utility

Select SYSGEN Option: <RET>

- 1 - Display Configuration Parameters
- 2 - Create New Configuration
- 3 - Edit Configuration Parameters
- 4 - Rename Configuration
- 5 - Delete Configuration
- 6 - Set Default Startup Configuration
- 7 - UCI Management
- 8 - Hardware Identification
- 9 - Buffer Pool Size
- 10 - Database Definition
- 13 - Mnemonic Namespaces

Select Option: 3 - Edit Configuration Parameters

Select Configuration PSA: <RET> PSA

Select SYSGEN Option: <RET>

- 1 - SYSGEN (step through full SYSGEN)

- 2 - Backspace, Line Delete Character
- 3 - Autostarts and Automounts
- 4 - Maximum Partitions
- 5 - Programmer Access Code
- 6 - MSM Disk Usage
- 7 - VIEW Command Restriction
- 8 - Tied Terminal Table
- 9 - Port (Terminal) Definition
- 10 - Multi-port I/O Card Definition
- 11 - Automatic Partition Startup
- 12 - Default Partition Size
- 13 - Translation/Replication Table Maintenance
- 16 - Tape Device Definition
- 17 - Global Defaults
- 18 - LOCK Table Size
- 19 - Edit Configuration Comment
- 20 - Mode Flags
- 21 - Display Configuration Parameters

Select Option: 9 - Port (Terminal) Definition

Terminal Configuration:

Port Number	Port Type	Port Addr	Tied Index	Line Width	Initial Parms	Initial Status
1	PC/DOS	CON		80	Console	/Echo/CRT
3	PC/DOS	LPT1		132	Parallel	/OutDev
4	PC/DOS	COM1		255	9600,8B+1S	/8bit/CRT /NoLog

Select Port Number: 4

Port Types: <RET>

- 1 - PC CONSOLE
- 2 - Serial Communication Ports (COM)
- 3 - Parallel Printers (LPT)
- 4 - ARNET Multiport Card
- 5 - Quadport -AT Card
- 6 - AST 4 Port/XN Card
- 7 - MCC Card
- 8 - Console Window Devices
- 9 - ARNET SmartPort card
- 10 - Bios LPT device
- 11 - LAT Port - connection to a specific port and server

Select Option <2>: <RET> 2 - Serial Communication Ports (COM)

Port Address <1> <RET> 1

Tied Terminal Index <>: <RET>

Terminal Line Width <255>: <RET> 255

CMOP Host Facility

Select Echo Option:

- 1 - ON
- 2 - OFF

Select Option <ON>: **OFF** OFF

Escape Processing Mode:

- 1 - OFF
- 2 - ON

Select Option <OFF>: **<RET>** OFF

8-bit Mode:

- 1 - OFF
- 2 - ON

Select Option <ON>: **<RET>** ON

Pass All Mode:

- 1 - OFF
- 2 - ON

Select Option <OFF>: **<RET>** OFF

Line Feed Suppression:

- 1 - OFF
- 2 - ON

Select Option <OFF>: **<RET>** OFF

Modem Controlled:

- 1 - NO
- 2 - YES - AUTO ANSWER (DTR ON)
- 3 - YES - NO AUTO ANSWER (DTR OFF)

Select Option <2>: 1 1 - NO

Upper-Case Setup:

- 1 - OFF
- 2 - ON

Select Option <OFF>: **<RET>** OFF

Select 'Output -Only' Mode:

- 1 - OFF (Input/Output Device)
- 2 - ON (Output -only device)

Select Option <OFF>: **<RET>** OFF (Input/Output Device)

Login Allowed:

- 1 - YES
- 2 - NO

Select Option <YES>: **NO** NO

CRT Mode:

- 1 - ON
- 2 - OFF

Select Option <ON>: <RET> ON

Select Initialization Option:

- 1 - 7 Data Bits, No Parity, and 1 Stop Bit
- 2 - 7 Data Bits, Even Parity, and 1 Stop Bit
- 3 - 7 Data Bits, Odd Parity, and 1 Stop Bit
- 4 - 7 Data Bits, No Parity, 2 Stop Bits
- 5 - 7 Data Bits, Even Parity, and 2 Stop Bits
- 6 - 7 Data Bits, Odd Parity, 2 Stop Bits
- 7 - 8 Data Bits, No Parity, and 1 Stop Bit
- 8 - 8 Data Bits, Even Parity, and 1 Stop Bit
- 9 - 8 Data Bits, Odd Parity, and 1 Stop Bit
- 10 - 8 Data Bits, No Parity, 2 Stop Bits
- 11 - 8 Data Bits, Even Parity, and 2 Stop Bits
- 12 - 8 Data Bits, Odd Parity, 2 Stop Bits

Select Option <7>: <RET> 7 - 8 Data Bits, No Parity, and 1 Stop Bit

Select Baud Rate: <RET>

- 1 - 50
- 2 - 75
- 3 - 110
- 4 - 134.5
- 5 - 150
- 6 - 200
- 7 - 300
- 8 - 600
- 9 - 1200
- 10 - 1800
- 11 - 2400
- 12 - 4800
- 13 - 9600
- 14 - 19200

Select Option <13>: <RET> 13 - 9600

Flow Control :

- 1 - ON
- 2 - OFF

Select Port Number: <RET>

Installation

Example of Install

```

Select OPTION NAME:  EVE           Systems Manager Menu

Select Systems Manager Menu Option:  Programmer Options

Select Programmer Options Option:    Kernel Installation & Distribution
System

Select Kernel Installation & Distribution System Option:  Installation

Select Installation Option:  LOAD a Distribution
Enter a Host File:  CMOP2_.KID

KIDS Distribution saved on Feb 21, 1997@10:52:35
Comment: CMOP 2.0

This Distribution contains Transport Globals for the following Package(s):
    CMOP 2.0
    CMOPH 2.0
OK to continue? NO//  YES

Want to Continue with Load? YES//  <RET>
Loading Distribution...

Want to RUN the Environment Check Routine? YES//  <RET>
    CMOP 2.0
Will first run the Environment Check Routine, PSXRENV

CMOP 2.0 Build will not be installed, Transport Global deleted!

    CMOPH 2.0
Will first run the Environment Check Routine, PSXHENV

Consolidated Mail Outpatient Pharmacy Install for Host Facility.

[The following is common to all sites except for the "Note" following Files 552-555. The "Note" will be
present if these files already exist on the system.]

Use INSTALL NAME: CMOPH 2.0 to install this Distribution.

Select Installation Option:  VERify Checksums in Transport Global
Select INSTALL NAME: CMOPH 2.0           Loaded from Distribution
2/21/97@10:57:11

=> CMOP 2.0      ;Created on Feb 21, 1997@10:52:35
DEVICE:  [Select Device]

PACKAGE: CMOPH 2.0           Feb 21, 1997 10:58 am           PAGE 1
-----

```

CMOP Host Facility

110 Routine checked, 0 failed.

Select Installation Option: Install Package(s)
Select INSTALL NAME: CMOPH 2.0 Loaded from Distribution
2/21/97@10:57:11

=> CMOP 2.0 ;Created on Feb 21, 1997@10:52:35

This Distribution was loaded on Feb 21, 1997@10:57:11 with header of
CMOP 2.0 ;Created on Feb 21, 1997@10:52:35
It consisted of the following Install(s):
CMOPH 2.0

CMOPH 2.0
Will first run the Environment Check Routine, PSXHENV

Consolidated Mail Outpatient Pharmacy Install for Host Facility.

Install Questions for CMOPH 2.0

50 DRUG (Partial Definition)
Note: You already have the 'DRUG' File.

54 RX CONSULT (including data)
Note: You already have the 'RX CONSULT' File.
I will MERGE your data with mine.

552 CMOP NATIONAL SITE
Note: You already have the 'CMOP NATIONAL SITE' File.

552.1 CMOP REFERENCE
Note: You already have the 'CMOP REFERENCE' File.

552.2 CMOP DATABASE
Note: You already have the 'CMOP DATABASE' File.

552.3 CMOP RELEASE
Note: You already have the 'CMOP RELEASE' File.

552.4 CMOP MASTER DATABASE
Note: You already have the 'CMOP MASTER DATABASE' File.

552.5 CMOP COST STATS
Note: You already have the 'CMOP COST STATS' File.

553 CMOP INTERFACE

Note: You already have the 'CMOP INTERFACE' File.

553.1 CMOP QUERY

Note: You already have the 'CMOP QUERY' File.

554 CMOP OPERATIONS

Note: You already have the 'CMOP OPERATIONS' File.

555 CMOP MASTER DATABASE ARCHIVE

Note: You already have the 'CMOP MASTER DATABASE ARCHIVE' File.

Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO

Enter the Device you want to print the Install messages.
 You can queue the install by enter a 'Q' at the device prompt.
 Enter a '^' to abort the install.

DEVICE: HOME// *[Select Print Device]*

Install Started for CMOPH 2.0 :
 Feb 21, 1997@10:59:44

Installing Routines:
 Feb 21, 1997@11:00:23

Installing Data Dictionaries:
 Feb 21, 1997@12:19:26

Installing Data:
 Feb 21, 1997@12:19:26

Installing PACKAGE COMPONENTS:

Installing BULLETIN

Installing SECURITY KEY

Installing INPUT TEMPLATE
 CMOPH 2.0

 Installing OPTION
 Feb 21, 1997@12:19:51

Running Post-Install Routine: ^PSXPOST

Initialization complete!!

Updating Routine file...

Updating KIDS files...

CMOPH 2.0 Installed.

CMOP Host Facility

Feb 21, 1997@12:20:02

Install Message sent



Install Completed

Post-Installation

Journaling Globals

Journaling of the PSX global is recommended for all HOST facilities.

Security Keys Used by CMOP Host Facilities

The security keys listed below control the access necessary to operate the CMOP software. At the host CMOP, these keys should be assigned by the CMOP Director or a designee.

PSXCMOPMGR	This security key locks the <i>CMOP System Management Menu</i> .
PSXCOST	This key allows the holder to access the compile/recompile, initialize, update, and purge options of the <i>Facility Cost Management</i> menu.
PSXRPH	This key should only be assigned to the pharmacists who will be responsible for the release of prescriptions at the CMOP. The user must have this key to manually release Rx's at the CMOP host facility.
PSNMGR	This security key is used to lock the <i>CMOP Mark/Unmark (Single drug)</i> and the <i>Loop CMOP Match to Local Drug File</i> options which use the NATIONAL DRUG file (#50.6) to mark and match items for CMOP dispense. This key is not exported with CMOP.
PSXMAIL	This security key enables a site manager to specify who receives the various mail messages and alerts generated by the CMOP process. The user(s) assigned this key must be active in the system. When the mail messages are generated, the software will look for users with the PSXMAIL key who are active. If there are no users with this key or there are users with this key who are inactive, then the software will send the messages to all holders with the PSXCMOPMGR key.

Background Jobs

At the host CMOP facility , it is recommended that the system manager schedule the background jobs to purge data from the CMOP DATABASE file (#552.2), the CMOP REFERENCE file (#552.1), the CMOP RELEASE file (#552.3), and the CMOP Release Acknowledgements from the CMOP OPERATIONS file (#554) on a scheduled basis.

Both the CMOP REFERENCE file (#552.1) and the CMOP DATABASE file (#552.2) are purged by the same job. This job is scheduled by using the *Nightly Purge of CMOP Database*, [PSX PURGE CMOP DATABASE] under the *Operations Management* menu option on the *CMOP System Management Menu*. This job should be scheduled to run during non-peak hours to lessen the impact on system operations. Once scheduled, this job will reschedule to run again every 24 hours. This job will purge the data from the SITE TEXT field (#14) in the CMOP REFERENCE file (#552.1), and related data from the CMOP DATABASE file (#552.2) for those transmissions marked as Closed in the STATUS field (#1) of the CMOP REFERENCE file (#552.1).

The purge of the CMOP RELEASE file (#552.3) is scheduled through the *Nightly Purge of Release Data*, [PSX PURGE RELEASE] option under the *Operations Management* menu on the *CMOP System Management Menu*. This job should be scheduled to run during non-peak hours to lessen the impact on system operations. Once scheduled, this job will reschedule to run every 24 hours. It will purge all data from the CMOP RELEASE file (#552.3) that is marked as Ready to Purge in the PURGE field (#1).

The purge of the Release Data Acknowledgements from the CMOP OPERATIONS file (#554) is scheduled through the *Nightly Purge of Release Data* [PSX PURGE RELEASE] option under the *Operations Management* menu on the *CMOP System Management Menu*. This job should be scheduled to run during non-peak hours to lessen the impact on the system's performance. When scheduling this job, the user is required to enter the number of days of acknowledgements to keep in the file. Once scheduled, this job will reschedule to run every 24 hours.

These three jobs should be scheduled upon installation of the CMOP software. Only one schedule can be set up at a time for these jobs. If the system has to be shut down, these three jobs should be unscheduled first. They can be unscheduled using the same options used to set up the schedule. Once the system is brought back up, these jobs should be rescheduled again. If the system goes down, these jobs should be rescheduled once the system is restored.

Resource Requirements

A. Hardware Requirements

The host facility must support a port to port connection between the **VISTA** CMOP PC system and the vendor PC system. Label printers should be available for the **VISTA** CMOP system for use in the event of a system failure on the automated dispensing system.

B. Routines

	<u>Routine Size</u>
PSXACK	3698
PSXACT	4735
PSXARC	4337
PSXARC1	4947
PSXARC2	2625
PSXARPT	3239
PSXAUTO	5208
PSXBKD	4881
PSXBKG	3930
PSXBLD	4542
PSXBLD1	3981
PSXCH	1270
PSXCMOP	3514
PSXCMOP0	2157
PSXCMOP1	3469
PSXCOPAY	1672
PSXCOSTU	3569
PSXCSCMN	3683
PSXCSDA	3436
PSXCSDC	2288
PSXCSDC1	3265
PSXCSDC2	1697
PSXCSHI	3315
PSXCSHI1	1444
PSXCSLG1	747
PSXCLOG	3696
PSXCSPMN1	3312
PSXCSPMN	3074
PSXCSSUM	3435
PSXCST	3205
PSXCST1	1663
PSXCSTPG	3380

PSXCSUTL	3362
PSXDENT	419
PSXDQUE	2244
PSXDRPT	3133
PSXEDIT	4292
PSXEDRG	1739
PSXEDUTL	2754
PSXERR	4613
PSXERR1	1182
PSXHENV	1795
PSXH SYS	8523
PSXJOB	1327
PSXLBL	3315
PSXLBL1	4508
PSXLBL2	3346
PSXLBLNR	2408
PSXLBLPT	670
PSXBLT	3183
PSXBLU	4867
PSXLIST	4008
PSXLKUP	2381
PSXLTST	653
PSXMARK	4768
PSXMISC	3230
PSXMISC1	4137
PSXMSG	4416
PSXMST	2697
PSXNEW	3881
PSXNOCMP	2096
PSXNOTE	5235
PSXOCMOP	2232
PSXOPUTL	3358
PSXPLOG	851
PSXPOST	2494
PSXPURG	4642
PSXPURG1	1188
PSXQRY	6744
PSXQUE	4147
PSXRACT	3202
PSXRCVRY	3970
PSXRECV	4332
PSXRECV1	4449
PSXREF	1820
PSXREJ	3987
PSXREL	2229

PSXRENV	3589
PSXRESUB	2782
PSXRHLP	3486
PSXRPPL	5114
PSXRPPL1	4212
PSXRPT	6734
PSXRSTAT	4941
PSXRSUS	4600
PSXRSYU	3759
PSXRTN	5127
PSXRTN1	5040
PSXRTR	2648
PSXRTRAN	7067
PSXRXQU	3315
PSXRXU	3062
PSXSERV	1850
PSXSITE	4573
PSXSMRY	4840
PSXSND	3733
PSXSTAT	5094
PSXSTP	547
PSXSTRT	3438
PSXSUDCN	2987
PSXSYS	3388
PSXTNRPT	4667
PSXUNHLD	2434
PSXUNREL	2829
PSXUTL	3156
PSXVCK	3831
PSXVCK1	4729
PSXVEND	5905
PSXVIEW	2923
PSXVND	5420
PSXVPN	2625

Total routines 111

Total size 382686

C. Disk Storage

Disk storage requirements for prescription data at the host CMOP facility should be calculated based on 3-5 prescription records per block.

D. Files

This package requires 19 files in addition to those of the Kernel and other files to which it points. Information about all files, including these can be obtained by using the VA FileMan to generate a list of file attributes. Please refer to the documentation for Outpatient Pharmacy V. 6.0 and National Drug File V. 3.16 for detailed information on resource requirements for these software packages.

E. Host Facility

<u>File Numbers</u>	<u>File Names</u>
552	CMOP NATIONAL SITE
552.1	CMOP REFERENCE
552.2	CMOP DATABASE
552.3	CMOP RELEASE
552.4	CMOP MASTER DATABASE
552.5	CMOP COST STATS
553	CMOP INTERFACE
553.1	CMOP QUERY
554	CMOP OPERATIONS
555	CMOP MASTER DATABASE ARCHIVE
50	DRUG
50.6	NATIONAL DRUG
51.5	ORDER UNIT
54	RX CONSULT

The namespace for the Consolidated Mail Outpatient Pharmacy package is PSX.