



**Program Directory for
Remote Spooling Communications Subsystem
(RSCS) Networking for z/VM**

function level 540

Program Number 5741-A05

for Use with
z/VM version 5 release 4

Document Date: September 2008

GI11-2893-00

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 105.

This program directory, dated September 2008, applies to RSCS Networking for z/VM, function level 540 (RSCS), Program Number 5741-A05.

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Summary of Changes

The following describes the different revision indicators used and the time frame when they were inserted:

- The -00 suffix level is September 2008.

RSCS Web Information

The RSCS web page can be visited at URL: <http://www.ibm.com/s390/vm/related/rscs>

There you will find:

- Additional useful information, hints, and tips.
- A PDF version of the RSCS FL540 program directory available for viewing.
- The ability to subscribe to future information updates.

1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of RSCS Networking for z/VM and RSCS Data Interchange Manager. The *z/VM: RSCS Networking Planning and Configuration* book is used as reference material for RSCS and all RSCS server machines. You should read all of this program directory before installing the program and then keep it for future reference.

When you are ready to install RSCS Networking for z/VM, read 3.1, “Preventive Service Planning” on page 6. This section tells you how to find any updates to the information and procedures in this program directory.

Note!

Knowledge of VMSES/E is required prior to installing and/or servicing RSCS. For a complete description of VMSES/E refer to *z/VM: VMSES/E Introduction and Reference*.

The program directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for RSCS.
- 3.0, “Program Support” on page 6 describes the IBM support available for RSCS.
- 4.0, “Program and Service Level Information” on page 7 lists the APARs (program level) and PTFs (service level) incorporated into RSCS.
- 5.0, “Installation and Migration Requirements and Considerations” on page 9 identifies the resources and considerations for installing and using RSCS.
- 6.0, “Installation Instructions” on page 18 provides detailed installation instructions for RSCS.
- 7.0, “Service Instructions” on page 34 provides detailed servicing instructions for RSCS.
- Appendix A, “Test the Installation/Service for RSCS” on page 48 provides instructions on testing for RSCS.
- Appendix B, “Local Modification Example: Assemble File” on page 69 provides a local modification example for RSCS.
- Appendix C, “Applying a Recommended Service Upgrade (RSU) Tape For RSCS” on page 72 provides detailed RSU install instructions for RSCS.
- Appendix D, “Supplied Sample Packages” on page 78 provides a list of sample packages provided with RSCS.
- Appendix E, “Moving RSCS to SFS Directories and Creating a PPF Override” on page 96 provides detailed information on moving RSCS into the shared file system (SFS) and overriding the default Product Parameter File (PPF).

- Appendix F, “Disabling RSCS” on page 103 provides a description of disabling RSCS FL540 if on z/VM, when RSCS is not licensed.

1.1 Important RSCS Install Information

RSCS is pre-installed on the z/VM® System deliverable in a disabled state. Most of the installation steps have already been completed. You will still need to complete some planning steps and the steps to place RSCS into production. In addition, you should be aware of information provided in 6.3, “Local Modifications to RSCS (Optional)” on page 20.

RSCS is preinstalled disabled. While disabled, support for most RSCS TCP/IP printing and sender-initiated file transfer functions are available. All other RSCS functions are disabled, and attempts to use them will result in the issuance of either message DMT257I or DMT258I. Message DMT257I will also be issued if RSCS detects it is running disabled during initialization.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for RSCS is 5741-A05.

The program announcement material describes the features supported by RSCS. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify:

- The basic and optional program materials available with this program
- Program publications.

2.1 Basic Machine-Readable Material

RSCS is distributed pre-installed as part of the z/VM version 5 release 4 System deliverable. Therefore, there are no basic machine readable materials. RSCS is a priced feature, so it is installed disabled. You must order RSCS to enable and use the full product. Refer to the z/VM version 5 release 4 Software Announcement for information on ordering z/VM version 5 release 4 and its features.

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for RSCS.

2.3 Program Publications

The following sections identify the basic and optional publications for RSCS.

2.3.1 Basic Program Publications

Figure 1 identifies the basic program publications for RSCS.

Figure 1. Basic Material

Publication Title	Form Number
z/VM: RSCS Networking Planning and Configuration	SC24-6155
z/VM: RSCS Networking Operation and Use	SC24-6154
z/VM: RSCS Networking Exit Customization	SC24-6152
z/VM: RSCS Networking Messages and Codes	GC24-6153

2.3.2 Optional Program Publications

Figure 2 on page 4 identifies the optional publications for RSCS.

Figure 2. *Optional Material*

Publication Title	Form Number
z/VM: RSCS Networking Diagnosis	GC24-6151

2.3.3 Softcopy Publications

RSCS publications are supplied softcopy on the *IBM Online Library: z/VM Collection* in BookManager® and Adobe® Portable Document Format (PDF). One copy of the *IBM Online Library: z/VM Collection on DVD* is included when you order the basic materials for z/VM V5.4.

In addition, the RSCS softcopy publications, including this program directory, are available as PDF from the z/VM internet library home page on the World Wide Web; the URL for this home page is:

www.ibm.com/eserver/zseries/zvm/library

The z/VM publications can be ordered separately, for a fee, using the specific publication number through the IBM Publication Center at:

www.ibm.com/shop/publications/order

The Publications Center is a world wide central repository for IBM product publications and marketing material. Furthermore, a large number of publications are available online in various file formats (e.g. Adobe PDF), which can currently be downloaded free of charge.

2.4 Program Source Materials

No program source materials or viewable program listings are provided with RSCS.

2.5 Publications Useful During Installation/Service

The publications listed in Figure 3 may be useful during the installation of RSCS. To order copies, contact your IBM representative.

Figure 3 (Page 1 of 2). *Publications Useful During Installation / Service on z/VM V5.4*

Publication Title	Form Number
z/VM: VMSES/E Introduction and Reference	GC24-6130
z/VM: Service Guide	GC24-6117

Figure 3 (Page 2 of 2). Publications Useful During Installation / Service on z/VM V5.4

Publication Title	Form Number
z/VM: CMS Commands and Utilities Reference	SC24-6073
z/VM: CMS File Pool Planning, Administration, and Operation	SC24-6074
z/VM: CP Planning and Administration	SC24-6083
z/VM: Saved Segments Planning and Administration	SC24-6116
z/VM: Group Control System	SC24-6098
z/VM: Other Components Messages and Codes	GC24-6120
z/VM: CMS and REXX/VM Messages and Codes	GC24-6118
z/VM: CP Messages and Codes	GC24-6119

3.0 Program Support

This section describes the IBM support available for RSCS.

3.1 Preventive Service Planning

Before installing RSCS, check with your IBM Support Center or use IBMLink™ (Service Link) to see if there is additional Preventive Service Planning (PSP) information available. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 4. PSP Upgrade and Subset ID

Retain				
COMPID	Release	Upgrade	Subset	Description
568409601	540	RSCS540	RSCS/540	Install information
568409601	540	RSCS540	yynnRSU	RSU service recommendations

Note: RSU-BY-LVL information can be obtained from the vm service rsu web site at url:

www.ibm.com/eserver/zseries/zvm/service/rsu

3.2 Statement of Support Procedures

With RSCS Networking for z/VM you are entitled to support under the basic warranty for z/VM V5.4. Also, note that the Software Subscription and Support for RSCS is *automatically* added to your order - this provides zSeries® service to which you are likely accustomed. If you do not want the Software Subscription and Support for RSCS, then you must take specific action to decline it when ordering RSCS.

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent.

Figure 5 identifies the component IDs (COMPID), Retain Release and Field Engineering Service Numbers (FESN) for RSCS.

Figure 5. Component IDs

Retain			
COMPID	Release	Component Name	FESN
568409601	540	RSCS FL540	0465049

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of RSCS FL540. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The following APAR fixes against RSCS FL530 have been incorporated into this release:

VM64276

VM64338

The following APAR fixes against the V3R2 release of RSCS have been incorporated into this release:

VM59347	VM60390	VM60968	VM61545	VM62369	VM62945
VM59898	VM60418	VM61009	VM61635	VM62378	VM62995
VM59910	VM60447	VM61044	VM61643	VM62384	VM63005
VM59974	VM60448	VM61049	VM61720	VM62401	VM63092
VM59999	VM60473	VM61052	VM61767	VM62464	VM63129
VM60020	VM60483	VM61066	VM61791	VM62465	VM63150
VM60055	VM60484	VM61099	VM61817	VM62504	VM63200
VM60071	VM60522	VM61167	VM61875	VM62514	VM63227
VM60080	VM60533	VM61210	VM61888	VM62531	VM63342
VM60142	VM60566	VM61245	VM61891	VM62540	VM63451
VM60176	VM60581	VM61287	VM61901	VM62543	VM63456
VM60231	VM60615	VM61295	VM61946	VM62563	VM63537
VM60233	VM60695	VM61312	VM62030	VM62625	VM63539
VM60251	VM60726	VM61318	VM62042	VM62633	VM63615
VM60257	VM60746	VM61374	VM62121	VM62642	VM63644
VM60277	VM60763	VM61388	VM62148	VM62674	VM63684
VM60309	VM60849	VM61401	VM62149	VM62690	VM63718
VM60314	VM60867	VM61430	VM62206	VM62701	VM63934
VM60319	VM60897	VM61437	VM62240	VM62782	VM64147
VM60323	VM60931	VM61451	VM62263	VM62790	VM64170
VM60325	VM60941	VM61467	VM62277	VM62830	VM64276
VM60331	VM60957	VM61481	VM62352	VM62920	VM64338
VM60389	VM60966	VM61525	VM62360		

4.2 Service Level Information

This is the initial release of RSCS FL540. There are no PTFs on the installation tape.

4.3 Cumulative Service Tape

Cumulative service for RSCS is available through a periodic, preventive service tape, the Recommended Service Upgrade (RSU). The RSU tape is used to provide service updates for multiple z/VM components and features (including RSCS) and is often referred to as a *stacked* RSU tape.

The stacked RSU can be obtained by ordering PTF UM975*n*0; where *n* indicates the release of z/VM you are running. For example, if you are running z/VM V5.4 then the RSU PTF number is UM97540.

Check the PSP bucket upgrade RSCS540 and subset yynnRSU (where yynn is the RSU service level) for the latest RSU available. For a list of the PTFs included on the RSU, see the service memo from the tape or refer to the RSU-BY-LVL information obtained from the VM service RSU web site at url:

www.ibm.com/eserver/zseries/zvm/service/rsu

5.0 Installation and Migration Requirements and Considerations

The following sections identify the system requirements for installing and activating RSCS.

5.1 Hardware Requirements

There are no special requirements for RSCS.

5.2 Program Considerations

The following sections list the programming considerations for installing RSCS and activating its functions.

5.2.1 Operating System Requirements

The following operating systems can be used to install RSCS:

- z/VM version 5 release 4

5.2.2 Migration Considerations

For information on migrating from RSCS V3R2 refer to 6.4.2, “Setup the RSCS Server Machines (Migration from RSCS V3R2.0)” on page 26. For information on migrating from RSCS FL530 refer to 6.4.3, “Setup the RSCS Server Machines (Migration from RSCS FL530)” on page 29.

If you use the new migration procedure, as documented in the *z/VM: Guide for Automated Installation and Service*, to migrate RSCS from a z/VM version 5 system, the customizable files will be migrated to z/VM V5.4, where possible. If the customizable files have been changed on the new level of RSCS and you have made changes to them on your current system, you will be told to rework your changes.

Note: When using the new migration procedure you may receive message VMFMGR2308W for L0000 local modifications. These were IBM preprimed local mods on RSCS V3R2 which were removed with the new RSCS. Once you get these messages the MIGRATE EXEC will not complete until you rework these local mods. In this case you can remove the local mods by issuing the following commands. The VMFREM command will update the VM SYSLMOD file and mark these local mods as reworked.

```
vmfsetup servp2p RSCS (link
vmfrem ppf servp2p RSCS mod 10000 (unrec
  (if message 2131R is received reply with a 2 to bypass the part)
vmfsetup detach
```

After you complete any other outstanding tasks per the migration procedure you should be able to issue the MIGRATE RSCS command to complete the migration.

5.2.2.1 Place into Production EXEC name change

The EXEC used to place RSCS into production has been changed from IN2PROD to RSC2PROD. If you have any of your own code that uses this EXEC then you have to change it to use the new name.

5.2.3 RSCS Supplied Samples

For a list of all samples supplied with RSCS FL540, see Appendix D, "Supplied Sample Packages" on page 78.

Note: The CRONOWN and PROFLIST Packages are not longer shipped.

5.2.4 Program Installation / Service Considerations

This section describes items that should be considered before you install or service RSCS.

Note - z/VM Automated Service Procedure

If you modify any of the IBM-supplied default user IDs, minidisk addresses, or SFS directory names associated with RSCS and you plan on using the z/VM automated service procedure (the **SERVICE** and **PUT2PROD** commands) to service your z/VM system, then you must create a PPF override for the **SERVP2P \$PPF** file.

You must also use the **VMFUPDAT SYSSUF** command to update the VM SYSSUF Software Inventory file, so that your PPF override for SERVP2P is used for automated service processing. For more information about PPF overrides, see the *VMSES/E Introduction and Reference*.

- RSCS Networking for z/VM is pre-installed on the z/VM version 5 system deliverable.
- VMSES/E is used to install and service this product.
- If you choose to move RSCS from minidisk to SFS, and you did not do it at initial z/VM install time, or if you want to change from the default SFS file pool or directories, then you will need to follow the steps in Appendix E, "Moving RSCS to SFS Directories and Creating a PPF Override" on page 96. These steps will have you create the SFS directories, move the files to the SFS directories and create a PPF override file.
- If multiple users install and maintain licensed products on your system there may be a problem getting the necessary access to MAINT's 51D disk. If you find that there is contention for write access to the 51D disk, you can eliminate it by converting the Software Inventory from minidisk to the Shared File System (SFS). See the *VMSES/E Introduction and Reference* manual section "Changing the Software Inventory to an SFS directory", for information on how to make this change.
- RSU tapes will be supplied as necessary. Service between refresh tapes can be obtained via CORrective service.

5.2.5 Required Service

There is no required service for installing RSCS.

5.2.6 Required Program Products / Components

The GCS component of z/VM is required to run RSCS FL540

The following is required to run RSCS FL540 if SNA links are desired or if reassembly of modules DMTLOG, DMTVXT, DMTSCT, DMTSNE, DMTSPT, or DMTSJE is desired:

- The High Level Assembler V1R5 is required if reassembling any of the above RSCS modules with VTAM® MACLIBs. They will not assemble cleanly using older assemblers.

The following is required to run RSCS Data Interchange Manager or any of the TCP/IP drivers provided with RSCS FL540:

- IBM VM TCP/IP supplied with z/VM.

The following is required to run the GETHOSTC MODULE (which provides Domain Name Server support for RSCS):

- The C runtime library supplied with z/VM.

IBM Library for REXX on zSeries (5695-014) version 1 release 4 is required if using compiled EXECs is preferred. The only EXECs which are compiled are MCOMP, MCONV, and ACHAMAIN.

5.2.7 User ID Directory Information

Several user directory statements supplied in the 5VMRSC40 PRODPART file have user IDs that have privilege classes other than G. These privilege classes are required for the following reasons:

- The RSCS virtual machine must have class B privilege for any of the following:
 - If the configuration file (RSCS CONFIG) contains a MSGNOH record, or
 - If telecommunication lines and local 3270 printers are attached by ATTACH statements in a PROFILE GCS or issued from the RSCS console.
- The XCHANGE machine must have class B privilege if you wish Data Interchange Manager to issue messages using MSGNOH.
- If you have the RACF® Security Server for z/VM, FL540, feature installed, the XCHANGE machine must have the following RACF PERMIT statements to operate correctly:

```
RACF Permit XCHANGE class(VMBATCH) id (XCHANGE) acc(control)
RACF Permit RSCS class(VMBATCH) id (XCHANGE) acc(control)
```

- The RSCSAUTH machine must have class B privilege if you wish RSCSAUTH messages to be issued using MSGNOH.

5.2.8 Program Installation Considerations for RSCS Data Interchange Manager

- If you wish to change the language of messages issued by Data Interchange Manager to uppercase English, then you will need to do the following:
 1. Update the DMTBLELL build list as a local modification changing the line **:PARTID. ACHAMENG TXT** to **:PARTID. ACHAUENG TXT**.
 2. Run VMFBLD to pick up the changes in the build lists.
- The MCOMP EXEC/SEXEC, MCONV EXEC/SEXEC, and the RSC2PROD EXEC are installed on 5VMRSC40's 400 minidisk, for easier access and maintenance.
- Shared File System directory support has been added for Data Interchange Manager disks (test build, production build, and logging), for the samples packages disks, and in the RSC2PROD EXEC.
- The ACHARSCS LOADLIB has been merged with the new RSCSEXIT LOADLIB.

5.2.9 Program Installation Considerations for RSCS/VTAM Interface

IBM recommends that RSCS system administrators who will be defining and using SNA links should work with the RSCSTAB ASSEMBLE file from the VTAM service ID. After appropriate modification, this file may be assembled and incorporated in a VTAM user load library using VTAM VMSES/E service techniques. See informational APAR II09266 for VTAM VMSES/E tips.

If you are using VTAM you need to create a PPF override to the RSCS \$PPF file to add the VTAM disk where the VTAMAC MACLIB resides.

Below is an example of creating a PPF overrides to add the VTAM minidisk. You can use a filename of your choice and a filetype of \$PPF for your override. Compile this override using the VMFPPF command (**VMFPPF *ppfname compname***). See the *VMSES/E Introduction and Reference* manual for further details on creating PPF overrides.

The following is an example of a PPF override to add the default VTAM V4.2 29A minidisk containing the required MACLIB. The 29A minidisk is owned by the VTAM 5654010A install user ID.

```

:OVERLST. RSCS
:RSCS. RSCS 5VMRSC40
:DCL. UPDATE
./INSERT &BAS6Z AFTER
&BAS7Z LINK 5654010A 29A 29A RR * VTAM Maclib disk
./END
:EDCL.
:MDA. UPDATE
./INSERT BASE6 AFTER
BASE7 &BAS7Z
./END
:EMDA.
:END.

```

5.3 DASD Storage Requirements

Section 5.3.1, “Required DASD Storage for RSCS” on page 14 lists the user IDs and minidisks which are required to install and service RSCS.

Note - z/VM Automated Service Procedure

If you modify any of the IBM-supplied default user IDs, minidisk addresses, or SFS directory names associated with RSCS and you plan on using the z/VM automated service procedure (the **SERVICE** and **PUT2PROD** commands) to service your z/VM system, then you must create a PPF override for the **SERV2P \$PPF** file.

You must also use the **VMFUPDAT SYSSUF** command to update the VM SYSSUF Software Inventory file, so that your PPF override for SERV2P is used for automated service processing. For more information about PPF overrides, see the *z/VM: VMSES/E Introduction and Reference*.

Important Installation Notes:

- The user IDs and minidisks are listed here so that you can get an idea of the resources that are required by RSCS. They are already allocated on the z/VM System deliverable, as RSCS is pre-installed.
- 5VMRSC40 is a default user ID and can be changed. If you choose to change the name of the installation user ID you need to create a Product Parameter Override (PPF) to change the name.
- Any disk with *NONSFS listed in the SFS 4K block column of Figure 6 on page 14 must remain a minidisk.

5.3.1 Required DASD Storage for RSCS

The following table contains the required DASD for the 5VMRSC40 and MAINT user IDs in order to install and service RSCS FL540.

<i>Figure 6 (Page 1 of 3). DASD Storage Requirements for Required RSCS Minidisks</i>						
Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
5VMRSC40	2B2	3390	14	20160	2520	Contains all of the base code shipped with RSCS VMSYS:5VMRSC40.RSCS.OBJECT
5VMRSC40	2B3	3390	22	31680	3960	Contains base assemble, \$exec, and other optional source files VMSYS:5VMRSC40.RSCS.SOURCE
5VMRSC40	2C2	3390	1	1440	180	Contains sample files and user local modifications for RSCS VMSYS:5VMRSC40.RSCS.LOCALSAM
5VMRSC40	2D2	3390	25	36000	4500	Contains serviced files. VMSYS:5VMRSC40.RSCS.DELTA
5VMRSC40	2A6	3390	2	2880	360	Contains AUX files and version vector table that represents your test level of RSCS. VMSYS:5VMRSC40.RSCS.APPLYALT
5VMRSC40	2A2	3390	2	2880	360	Contains AUX files and version vector table that represent your production level of RSCS. VMSYS:5VMRSC40.RSCS.APPLYPROD
Notes:						
1. Cylinder values defined in this table are based on a 4K block size unless otherwise stated. FB-512 and SFS block values are derived from the 3390 cylinder values in this table.						
2. *NONSFs in the SFS 4K block column means that disk cannot be installed to the shared file system and must remain a minidisk. The 400 and 401 minidisks must remain disks since GCS does not support the shared file system.						

Figure 6 (Page 2 of 3). DASD Storage Requirements for Required RSCS Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
5VMRSC40	29D	3390	8	11520	1440	Contains American English help files for RSCS. VMSYS:5VMRSC40.RSCS.HELP
5VMRSC40	502	3390	8	11520	1440	Contains uppercase English help files for RSCS. VMSYS:5VMRSC40.RSCS.UHELP
5VMRSC40	400	3390	13	18720	*NONSFS	Test disk for RSCS server
5VMRSC40	401	3390	9	12960	*NONSFS	Production disk for RSCS server, also RSCS user ID's 191 disk
5VMRSC40	402	3390	3	4320	540	Test disk for RSCS Data Interchange Manager, RSCSSDNS and RSCSAUTH servers VMSYS:5VMRSC40.RSCS.XCHTEST
5VMRSC40	403	3390	3	4320	540	Production disk for RSCS Data Interchange Manager, RSCSDSN, and RSCSAUTH servers and also XCHANGE 191 disk VMSYS:XCHANGE.
5VMRSC40	406	3390	8	11520	1440	Contains sample exit packages and usability execs VMSYS:5VMRSC40.RSCS.PACKAGE
5VMRSC40	191	3390	9	12960	1620	5VMRSC40 user ID's 191 minidisk VMSYS:5VMRSC40.

Notes:

1. Cylinder values defined in this table are based on a 4K block size unless otherwise stated. FB-512 and SFS block values are derived from the 3390 cylinder values in this table.
2. *NONSFS in the SFS 4K block column means that disk cannot be installed to the shared file system and must remain a minidisk. The 400 and 401 minidisks must remain disks since GCS does not support the shared file system.

Figure 6 (Page 3 of 3). DASD Storage Requirements for Required RSCS Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
MAINT	193 and 493	3390	1	1440	180	Production disk containing Dump Viewing Facilities for RSCS
MAINT	19D	3390	8	11520	*NONSFS	Production disk containing American English help files for RSCS.
MAINT	402	3390	8	11520	*NONSFS	Production disk containing uppercase English helps file for RSCS.

Notes:

1. Cylinder values defined in this table are based on a 4K block size unless otherwise stated. FB-512 and SFS block values are derived from the 3390 cylinder values in this table.
2. *NONSFS in the SFS 4K block column means that disk cannot be installed to the shared file system and must remain a minidisk. The 400 and 401 minidisks must remain disks since GCS does not support the shared file system.

The following table contains the DASD requirements for the RSCS Data Interchange Manager (XCHANGE) user ID.

Figure 7. DASD Storage Requirements for Data Interchange Manager Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
5VMRSC40	403	3390	3	4320	540	Production disk for RSCS Data Interchange Manager, RSCSDSN, and RSCSAUTH servers and also XCHANGE 191 disk VMSYS:XCHANGE.
XCHANGE	5BF	3390	3	4320	540	Production log disk for the XCHANGE server. VMSYS:XCHANGE.LOG

Notes:

1. Cylinder values defined in this table are based on a 4K block size unless otherwise stated.
2. The 5VMRSC40 403, which becomes XCHANGE 191, and XCHANGE 5BF minidisks are not optional if using the Data Interchange Manager server.

The following table contains the DASD requirements for the RSCSDNS user ID.

<i>Figure 8. DASD Storage Requirements for the RSCSDNS user ID</i>						
Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
RSCSDNS	191	3390	1	1440	180	Server's 191 minidisk.

The following table contains the DASD requirements for the RSCSAUTH user ID.

<i>Figure 9. DASD Storage Requirements for the RSCSAUTH user ID</i>						
Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
RSCSAUTH	191	3390	10	14400	1800	Server's 191 minidisk.

6.0 Installation Instructions

This chapter describes the installation methods and the step-by-step procedures to install and activate RSCS.

The step-by-step procedures are in a two-column format. The steps to be performed are in bold large numbers. Commands for these steps are on the left-hand side of the page in bold print. Additional information for a command may exist to the right of the command.

Each step of the installation instructions must be followed. Do not skip any step unless otherwise directed. All instructions showing accessing of disks assumes the use of default minidisk addresses or SFS directories. If different minidisk addresses or SFS directory names are used, change the instructions appropriately.

Note!

The sample console output presented throughout these instructions was produced on a z/VM V5.4 system using minidisks.

6.1 VMSES/E Installation Process Overview

The following is a brief description of the main steps in installing RSCS using VMSES/E.

- Set RSCS to the ENABLED state.
This will allow RSCS Networking for z/VM to fully run.
- Perform Post-installation Tasks
Information about file tailoring and initial activation of the program is presented in 6.4, "Post Installation" on page 21.
- Place the RSCS Files into Production
Once the product files have been tailored and the operation of RSCS is satisfactory, the product files are copied from the test Build disk(s) or directories to production Build disk(s) or directories.

For a complete description of all VMSES/E installation options refer to *VMSES/E Introduction and Reference* manual.

RSCS 540 Licensing Details

- If installing z/VM, and you **are already** licensed for RSCS FL540, most of the install steps for RSCS are complete. You will only need to complete sections:
 - 6.2, “Enable RSCS for Use” on page 19,
 - 6.4, “Post Installation” on page 21,
 - Appendix A, “Test the Installation/Service for RSCS” on page 48, and
 - 6.5, “Place RSCS Into Production” on page 33.
- If installing z/VM, and you **are not** licensed for RSCS FL540, the installation of RSCS is complete. You will only need to complete instructions in 6.5, “Place RSCS Into Production” on page 33 starting with 6.5.1, “Copy the Server Code to the Server Minidisks or Directories” on page 33, then continue with the following:
 - Review the “Printing with the RSCS Server” chapter of the *TCP/IP for VM Planning and Customization* manual.
 - Make sure the GCS recovery machine is autologged by the TCPIP server (the TCPIP configuration file has an autolog statement for GCS).
 - Make sure the RSCS, RSCSDNS, and RSCSAUTH server's are autologged by the GCS recovery machine (the PROFILE GCS file has an autolog statement for RSCS, RSCSDNS, and RSCSAUTH).

6.2 Enable RSCS for Use

1 Log on to the MAINT user ID (that has privilege class E authority and has access to the VMSES/E code disk (default MAINT 5E5 and VMSES/E Software Inventory disk (default) MAINT 51D).

2 If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

Note: If another user already has the MAINT 51D minidisk linked in write mode (R/W), you will only obtain read access (R/O) to this minidisk. If this occurs, you will need to have that user re-link the 51D in read-only mode (RR), and then re-issue the following LINK and ACCESS commands. Do not continue with these procedures until a write link is established to the 51D minidisk. Do not use *mw* mode.

```
link maint 51d 51d mr
access 51d d
```

The MAINT 51D disk is where the VMSES/E system level software inventory files reside.

- 3 Set RSCS to the enabled state. This command will enable RSCS. RSCS uses the enabled state information to determine whether the entire product is available or just the TCP/IP-related functions.

service RSCS enable

This command will perform the following:

- Set RSCS as ENABLED in VMSES/E and within CP
- Update the CP system configuration file (SYSTEM CONFIG) on the CP primary (default) parm disk.

What's Next?

Continue with 6.4, "Post Installation" on page 21.

Notes:

1. If, in the future, you are no longer licensed for RSCS FL540, you **must** follow the instructions in Appendix F, "Disabling RSCS" on page 103 to disable RSCS.

6.3 Local Modifications to RSCS (Optional)

If any local modifications to RSCS are needed at this time, refer to chapter 7 in the *Service Guide*. Follow the steps that are applicable for your local modification.

The following substitutions need to be made in the service guide when doing local modifications to RSCS:

- **zvm** should be **5VMRSC40**
- *compname* should be **RSCS** (minidisk) or **RSCSSFS** (SFS).
- *appid* should be **5VMRSC40**
- *fm-local* should be the filemode where the 2C2 is accessed
- *fm-applyalt* should be the filemode where the of 2A6 is accessed
- **outmode localmod** should be **outmode localsam**

A couple of things that you need to keep in mind are:

- The "Compile National Language Files" section is not applicable to RSCS. RSCS languages are compiled using the MCOMP EXEC through the local modification procedure instructions in Appendix B, "Local Modification Example: Assemble File" on page 69.
- When you get to the "Rebuilding Objects" step in the *Service Guide* you should return back to this program directory at 6.4, "Post Installation" on page 21.

- There is a local modification assemble file example in Appendix B, “Local Modification Example: Assemble File” on page 69.
- You can use the LOCALMOD EXEC, instead of the steps in the *z/VM Service Guide*, except for compiling national language files as stated above. Refer to the Appendix “Apply or Rework a Local Modification” in the *z/VM: Guide for Automated Installation and Service* for information on the LOCALMOD EXEC.

6.4 Post Installation

This section is required. You will setup the RSCS server machines with RSCS code by copying sample files to their production locations. Additionally you will tailor the server machines for your operating environment.

For a list of all sample configuration files and exit packages supplied with RSCS FL540, see Appendix D, “Supplied Sample Packages” on page 78. These samples will be referenced during the following post installation tailoring steps. This section will have you copy some of the sample files to a form usable by RSCS. For example, the RSCS CONFSAMP file becomes RSCS CONFIG in its usable form.

Choose one of the following sections based on your installation:

- 6.4.1, “Setup the RSCS Server Machines (Initial Installation)” if this is a first time installation of RSCS FL540.
- 6.4.2, “Setup the RSCS Server Machines (Migration from RSCS V3R2.0)” on page 26 if you are migrating from a VM release with RSCS V3.2 already installed.
- 6.4.3, “Setup the RSCS Server Machines (Migration from RSCS FL530)” on page 29 if you are migrating from a z/VM 5.3 with RSCS FL530 already installed.

6.4.1 Setup the RSCS Server Machines (Initial Installation)

If you are installing RSCS for the first time you will need to copy and tailor sample profile and configuration files to the default server disks for each program that you will be using. You will have to setup the RSCS server machine and then optionally setup the XCHANGE and the RSCSAUTH server machines, based on the functions you want to use.

Complete the setup of the RSCS server machine and then, optionally, one or both of the other server machine setups based on the functions you want to use.

Setup the RSCS server machine:

- 6.4.1.1, “Setup the RSCS Virtual Machine” on page 22

Setup one or both of the following server machines based on the functions that you will be using:

- 6.4.1.2, “Setup the XCHANGE Virtual Machine (Optional)” on page 23
- 6.4.1.3, “Setup the RSCSAUTH Virtual Machine (Optional)” on page 25

6.4.1.1 Setup the RSCS Virtual Machine

1 Log on to 5VMRSC40 if you are not already logged on to it.

2 Access the RSCS samples.

a If installing using minidisks

access 406 t

The sample files were loaded to the 406 minidisk.

b If installing using SFS

access VMSYS:5VMRSC40.RSCS.PACKAGE t

The sample files were loaded to the SFS directory.

3 Access the RSCS production disk (401).

access 401 v

RSCS links the 5VMRSC40's 401 minidisk as its 191 minidisk. Sample files will be copied to their usable form on this disk.

4 Copy the sample files to the 401 minidisk.

copyfile rscs confsamp t = config v (olddate

copyfile profile gcssamp t = gcs v (olddate replace The 401 disk already contains a preprimed PROFILE GCS file that includes a link and access to the TCP/IP configuration minidisk, TCPMAINT 198. If this link is not required, then copy the RSCS sample as the PROFILE GCS.

copyfile nothere tempsamp t = template v (olddate

copyfile unknown tempsamp t = template v (olddate

5 Tailor each of the following files you copied to the 5VMRSC40 401 disk in the previous step:

- RSCS CONFIG
- PROFILE GCS
- NOTHERE TEMPLATE
- UNKNOWN TEMPLATE

See "Configuring RSCS" in the *z/VM: RSCS Networking Planning and Configuration* for details on tailoring these files.

6 Tailor the SYSTEM NETID file

The SYSTEM NETID file, that resides on MAINT's 490 and 190 disks, needs to be updated with the CPUID, system node id and RSCS server machine user ID. You need to log on to MAINT in order to do this. Don't forget that you will need to rebuild the CMS saved system after you make your changes. For information about the SYSTEM NETID file refer to the *z/VM: CMS Planning and Administration*. For information on rebuilding CMS saved system see the *z/VM: Service Guide*.

6.4.1.2 Setup the XCHANGE Virtual Machine (Optional)

If you want to use the Data Interchange Manager function of RSCS then you need to do the following steps to set it up.

1 Log on to 5VMRSC40 if you are not already logged onto it.

2 Access the RSCS samples

a If installing using minidisks

access 406 t

The sample files were loaded to the 406 minidisk.

b If installing using SFS

access VMSYS:5VMRSC40.RSCS.PACKAGE t

The sample files were loaded to the SFS directory.

3 Access the RSCS production disk (401).

access 401 v

RSCS links the 5VMRSC40's 401 minidisk as its 191 minidisk. Sample files will be copied to their usable form on this disk for the RSCS Data Interchange Manager.

4 Access XCHANGE's production disk or directory. The sample files must be copied to their usable form to this disk or directory

a If installing using minidisks

access 403 u

b If installing using SFS

access VMSYS:XCHANGE. u

- 5** The ACHAMAIN EXEC is shipped interpretive (filetype = SEXEC) and compiled (filetype = EXEC). If you would rather use the interpretive exec instead of compiled, copy the SEXEC as EXEC on the Data Interchange Manager test disk or SFS directory. Otherwise skip this step.

a If installing using minidisks

```
access 402 w
copy achamain sexec w = exec = (rep oldd
```

b If installing using SFS

```
access VMSYS:5VMRSC40.RSCS.XCHTEST w
copy achamain sexec w = exec = (rep oldd
```

- 6** Copy the sample Data Interchange Manager files to the RSCS production disk (5VMRSC40 401) and the XCHANGE production disk (5VMRSC40 403) or equivalent SFS directories.

```
copyfile profile execsamp t = exec u (olddate
copyfile xchange confsamp t = config u (olddate
copyfile achafail tempsamp t = template u (olddate
copyfile acharscs confsamp t = config v (olddate
```

- 7** Tailor the following files:

XCHANGE CONFIG Located on the 5VMRSC40 403 minidisk or VMSYS:XCHANGE. directory. Ensure DOMAIN and RSCSLINK are specified and contain the correct information. See the 'Configuring RSCS Interchange' section of the "Setting up RSCS Data Interchange Manager" chapter in the *z/VM: RSCS Networking Planning and Configuration*, for specific information.

PROFILE EXEC Located on the 5VMRSC40 403 minidisk or VMSYS:XCHANGE. directory. Add any Data Interchange Manager server profile information as appropriate for your system, such as special links, accesses and console setup. If you installed RSCS using SFS, you will need to update the PROFILE EXEC to access the XCHANGE log directory (VMSYS:XCHANGE.LOG) instead of the 5BF minidisk as filemode B.

ACHAFAIL TEMPLATE Located on the 5VMRSC40 403 minidisk or VMSYS:XCHANGE. directory. Change "support person" to the user ID of the system administrator for Data Interchange Manager.

ACHARSCS CONFIG Located on the 5VMRSC40 401 minidisk. Ensure the LINKDEF, LINKTYPE, and PARM statements reflect the linkid of the Data Interchange Manager link from RSCS.

RSCS CONFIG Located on the 5VMRSC40 401 minidisk. Place an IMBED ACHARSCS CONFIG statement at the bottom of the configuration file, or copy the ACHARSCS CONFIG file into the RSCS configuration file.

PROFILE GCS Located on the 5VMRSC40 401 minidisk. Ensure the GLOBAL LOADLIB statement contains the RSCSEXIT loadlib:

GLOBAL LOADLIB ... RSCS RSCSEXIT ...

See the "Setting UP RSCS Data Interchange Manager" chapter in the *z/VM: RSCS Networking Planning and Configuration* manual for details on modifying these files.

6.4.1.3 Setup the RSCSAUTH Virtual Machine (Optional)

If you want to use the Dynamic Authorization function of RSCS then you need to do the following steps to set it up.

1 Log on to 5VMRSC40 if you are not already logged onto it.

2 Access the RSCS samples

a If installing using minidisks

access 406 t

The RSCSAUTH sample configuration file was loaded to the 406 minidisk.

b If installing using SFS

access VMSYS:5VMRSC40.RSCS.PACKAGE t

The RSCSAUTH sample configuration file was loaded to the SFS directory.

3 Access the RSCSAUTH test disk or directory. The RSCSAUTH sample configuration file must be copied to this disk or directory

a If installing using minidisks

access 403 w

copy RSCSAUTH CONFSAMP t = CONFIG w (oldd

b If installing using SFS

access VMSYS:XCHANGE. w
copy RSCSAUTH CONFSAMP t = CONFIG w (oldd

- 4** Tailor the RSCSAUTH CONFIG file that you just copied. See "Setting Up RSCS Dynamic Authorization" in the *z/VM: RSCS Networking Planning and Configuration* for details on configuring this file.

What's Next?

You have now finished tailoring the RSCS virtual machines. Continue with Appendix A, "Test the Installation/Service for RSCS" on page 48. You will return to 6.5, "Place RSCS Into Production" to place the new RSCS code into production.

6.4.2 Setup the RSCS Server Machines (Migration from RSCS V3R2.0)

If you have been running RSCS V3R2 on a release of VM prior to z/VM V5.4, you will copy your previously tailored control files from your current system to the new RSCS FL540 server machine.

Complete the setup of the RSCS server machine and then, optionally, one or both of the other server machine setups based on the functions you want to use.

Setup the RSCS server machine:

- 6.4.2.1, "Setup the RSCS Virtual Machine"

Setup the Data Interchange Manager if you were previously using it:

- 6.4.2.2, "Setup the XCHANGE Virtual Machine" on page 27

Setup Dynamic Authorization, if you want to use it:

- 6.4.2.3, "Setup the RSCSAUTH Virtual Machine (Optional)" on page 28

6.4.2.1 Setup the RSCS Virtual Machine

- 1** Log on to 5VMRSC40 if you are not already logged onto it.
- 2** Obtain access to the current production disk containing your RSCS 3.2.0 configuration files.

For example, if you have z/VM V5.4 installed as a second level system, from a class B user ID use the ATTACH command to attach the first level's P684096K 401 minidisk as 901 to user ID 5VMRSC40. Then from the 5VMRSC40 access this disk as filemode t, as shown.

access 901 t

3 Access the 401 minidisk.

access 401 u

The 5VMRSC40 401 minidisk is RSCS's 191 minidisk.

4 Copy your tailored files to the 401 minidisk.

Note: If you have tailored more than the files listed below, or if the files have different names, then you will also need to copy them to the 401 minidisk.

copyfile * config t = = u (olddate replace

copyfile * gcs t = = u (olddate replace

copyfile * dest t = = u (olddate replace

copyfile * template t = = u (olddate replace

6.4.2.2 Setup the XCHANGE Virtual Machine

1 Log on to 5VMRSC40 if you are not already logged onto it.

2 Obtain access to the current production disk containing your RSCS 3.2.0 configuration files.

For example, if you have z/VM V5.4 installed as a second level system, from a class B user ID use the ATTACH command to attach the first level's P684096K 403 minidisk as 503 to user ID 5VMRSC40. Then from the 5VMRSC40 access this disk as filemode t, as shown.

access 503 t

3 Access XCHANGE's production disk or directory.

a If installing using minidisks

access 403 u

b If installing using SFS

access VMSYS:XCHANGE. u

4 Copy your tailored files to the XCHANGE production disk or directory.

copyfile xchange config t = = u (olddate replace

copyfile profile exec t = = u (olddate replace

copyfile xchange table t = = u (olddate replace

copyfile achafail template t = = u (olddate replace If you installed RSCS FL540 using SFS, you may need to update the PROFILE EXEC to access the XCHANGE log directory (VMSYS:XCHANGE.LOG) instead of the 5BF minidisk as filemode B.

- 5** The ACHAMAIN EXEC is shipped interpretive (filetype = SEXEC) and compiled (filetype = EXEC). If you would rather use the interpretive exec instead of compiled, copy the SEXEC as EXEC on the Data Interchange Manager test disk or SFS directory. Otherwise skip this step.

a If installing using minidisks

access 402 w

copy achamain sexec w = exec = (olddate replace

b If installing using SFS

access VMSYS:5VMRSC40.RSCS.XCHTEST w

copy achamain sexec w = exec = (olddate replace

6.4.2.3 Setup the RSCSAUTH Virtual Machine (Optional)

If you want to use the Dynamic Authorization function of RSCS then you need to do the following steps to set it up.

- 1** Log on to 5VMRSC40 if you are not already logged onto it.

- 2** Access the RSCS samples

a If installing using minidisks

access 406 t

The RSCSAUTH sample configuration file was loaded to the 406 minidisk.

b If installing using SFS

access VMSYS:5VMRSC40.RSCS.PACKAGE t

The RSCSAUTH sample configuration file was loaded to the SFS directory.

3 Access the RSCSAUTH test disk or directory. The RSCSAUTH sample configuration file must be copied to this disk or directory

a If installing using minidisks

```
access 403 w
copy RSCSAUTH CONFSAMP t = CONFIG w (rep oldd
```

b If installing using SFS

```
access VMSYS:XCHANGE. w
copy RSCSAUTH CONFSAMP t = CONFIG w (rep oldd
```

4 Tailor the RSCSAUTH CONFIG file that you just copied. See "Setting Up RSCS Dynamic Authorization" in the *z/VM: RSCS Networking Planning and Configuration* for details on configuring this file.

What's next?

You have now finished tailoring the RSCS virtual machines. Continue with Appendix A, "Test the Installation/Service for RSCS" on page 48. You will return to 6.5, "Place RSCS Into Production" to place the new RSCS code into production.

6.4.3 Setup the RSCS Server Machines (Migration from RSCS FL530)

If you have been running RSCS FL 530 on z/VM V5.3, you will copy your previously tailored control files from your current system to the new RSCS FL540 server machine.

Complete the setup of the RSCS server machine and then, optionally, one or both of the other server machine setups based on the functions you want to use.

Setup the RSCS server machine:

- 6.4.3.1, "Setup the RSCS Virtual Machine"

Setup the Data Interchange Manager if you were previously using it:

- 6.4.3.2, "Setup the XCHANGE Virtual Machine" on page 30

Setup Dynamic Authorization if you were previously using it:

- 6.4.3.3, "Setup the RSCSAUTH Virtual Machine (Optional)" on page 31

6.4.3.1 Setup the RSCS Virtual Machine

1 Log on to 5VMRSC40 if you are not already logged onto it.

- 2 Obtain access to the current production disk containing your RSCS FL530 configuration files.

For example, if you have z/VM V5.4 installed as a second level system, from a class B user ID use the ATTACH command to attach the first level's 5VMRSC30 401 minidisk as 901 to user ID 5VMRSC40. Then from the 5VMRSC40 access this disk as filemode t, as shown.

access 901 t

- 3 Access the 401 minidisk.

access 401 u

The 5VMRSC40 401 minidisk is RSCS's 191 minidisk.

- 4 Copy your tailored files to the 401 minidisk.

Note: If you have tailored more than the files listed below, or if the files have different names, then you will also need to copy them to the 401 minidisk.

copyfile * config t = = u (olddate replace

copyfile * gcs t = = u (olddate replace

copyfile * dest t = = u (olddate replace

copyfile * template t = = u (olddate replace

6.4.3.2 Setup the XCHANGE Virtual Machine

- 1 Log on to 5VMRSC40 if you are not already logged onto it.
- 2 Obtain access to the current production disk containing your RSCS FL530 configuration files.

For example, if you have z/VM V5.4 installed as a second level system, from a class B user ID use the ATTACH command to attach the first level's 5VMRSC30 403 minidisk as 503 to user ID 5VMRSC40. Then from the 5VMRSC40 access this disk as filemode t, as shown.

access 503 t

- 3 Access XCHANGE's production disk or directory.

a If installing using minidisks

access 403 u

b If installing using SFS

access VMSYS:XCHANGE. u

4 Copy your tailored files to the XCHANGE production disk or directory.

copyfile xchange config t = = u (olddate replace

copyfile profile exec t = = u (olddate replace

copyfile xchange table t = = u (olddate replace

copyfile achafail template t = = u (olddate replace If you installed RSCS FL540 using SFS, you may need to update the PROFILE EXEC to access the XCHANGE log directory (VMSYS:XCHANGE.LOG) instead of the 5BF minidisk as filemode B.

5 The ACHAMAIN EXEC is shipped interpretive (filetype = SEXEC) and compiled (filetype = EXEC). If you would rather use the interpretive exec instead of compiled, copy the SEXEC as EXEC on the Data Interchange Manager test disk or SFS directory. Otherwise skip this step.

a If installing using minidisks

access 402 w

copy achamain sexec w = exec = (olddate replace

b If installing using SFS

access VMSYS:5VMRSC40.RSCS.XCHTEST w

copy achamain sexec w = exec = (olddate replace

6.4.3.3 Setup the RSCSAUTH Virtual Machine (Optional)

If you want to use the Dynamic Authorization function of RSCS then you need to do the following steps to set it up.

1 Log on to 5VMRSC40 if you are not already logged onto it.

2 Obtain access to the current production disk containing your RSCS FL530 configuration files.

For example, if you have z/VM V5.4 installed as a second level system, from a class B user ID use the ATTACH command to attach the first level's 5VMRSC30 403 minidisk as 503 to user ID 5VMRSC40. Then from the 5VMRSC40 access this disk as filemode t, as shown.

access 503 t

3 Access the RSCSAUTH test disk or directory.

a If installing using minidisks

access 403 w

b If installing using SFS

access VMSYS:XCHANGE. w

4 Copy your tailored files to the RSCSAUTH production disk or directory.

copy RSCSAUTH CONFIG t = = w (rep oldd

5 Obtain access to the z/VM V5.3 RSCSAUTH 191 minidisk.

For example, if you have z/VM V5.4 installed as a second level system, from a class B user ID use the ATTACH command to attach the first level's z/VM V5.3 191 minidisk as 891 to user ID 5VMRSC40. Then from the 5VMRSC40 access this disk as filemode t, as shown.

access 891 t

6 Obtain access to the z/VM V5.4 RSCSAUTH 191 minidisk or directory.

a If installing using minidisks

link rscsauth 191 991 mr
access 991 w

b If installing using SFS

access VMSYS:RSCSAUTH. w

7 Copy your RSCSAUTH production files

copy * RSCSAUTH t = = w (rep oldd

What's next?

You have now finished tailoring the RSCS virtual machines. Continue with Appendix A, "Test the Installation/Service for RSCS" on page 48. You will return to 6.5, "Place RSCS Into Production" to place the new RSCS code into production.

6.5 Place RSCS Into Production

Important note

This procedure should only be done after you have successfully tested RSCS installation.

This step will copy the RSCS files from its test build disks or SFS directories to its server production build disks or directories. The help and DVF code will also be placed onto MAINT minidisks.

6.5.1 Copy the Server Code to the Server Minidisks or Directories

- 1 Log on to MAINT. (Make sure you have logged off of the 5VMRSC40 user ID.)
- 2 Copy RSCS files into production.

put2prod rscs

This command may take several minutes to complete.

6.5.2 Log On to the Server Machines.

Bring up your server machines by logging on to them. Logging on to them will restart them with the production code. First ensure that the installation user ID, 5VMRSC40, is not logged on.

The RSCS product is now installed and built on your system.

7.0 Service Instructions

Note - z/VM Automated Service Procedure

The **preferred** method for installing service to RSCS is to use the z/VM automated service procedure (use of the **SERVICE** and **PUT2PROD** commands).

If you have chosen to use the automated procedure to apply preventive (RSU) and CORrective service to your z/VM system, you need to follow the service instructions documented in the *z/VM: Guide for Automated Installation and Service* manual, instead of those presented here or in Appendix C.

RSU Warning

If applying a RSCS RSU, go to the instructions in Appendix C, "Applying a Recommended Service Upgrade (RSU) Tape For RSCS" on page 72. You will return to a step in this chapter specified in that appendix.

This section of the Program Directory contains the procedure to install **CORrective service** to RSCS with VMSES/E.

To become more familiar with service using VMSES/E, you should read the introductory chapters in the *VMSES/E Introduction and Reference* manual before you begin the procedures in this section. This manual also contains the command syntax for the VMSES/E commands listed in the procedure.

Notes:

1. Each step of the servicing instructions must be followed. Do not skip any step unless otherwise directed. All instructions showing accessing of disks assumes the use of default minidisk addresses or SFS directories. If different minidisk addresses or SFS directory names are used, change the instructions appropriately.
2. If the service instructions are not completed at one time, you can issue VMFSETUP and continue with the step you left off at.

7.1 VMSES/E Service Process Overview

This overview gives a brief description of the main steps in servicing 5VMRSC40 using VMSES/E.

- Merge Service

Use the VMFMRDSK command to clear the alternate apply disk before receiving new service. This allows you to remove the new service if a serious problem is found.

- Receive Service

The VMFREC command receives service from the delivery media and places it on the Delta disk.

- Apply Service

The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them.

- Reapply Local Service (if applicable)

All local service must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system. See Chapter 7 in the *Service Guide* for this procedure.

- Build a New Level

The build task generates the serviced level of an object and places the new object on a Build disk or directory.

- Place the New Service into Production

Once the service is satisfactorily tested it should be put into production by copying the new service to the production disk, re-saving the DCSS (Discontiguous Saved Segments), etc.

7.2 Servicing RSCS Using VMSES/E

RSU Warning

If applying a RSCS RSU, go to the instructions in Appendix C, "Applying a Recommended Service Upgrade (RSU) Tape For RSCS" on page 72. You will return to a step in this chapter specified in that appendix.

7.2.1 Prepare to Receive Service

Electronic Service (envelope file)

If you have received the service electronically or on CD-ROM, follow the appropriate instructions to retrieve and decompress the envelope file to your A-disk. The decompression is currently done by using the DETERSE MODULE (shipped with VMSES/E).

The documentation envelope and the service (PTF) envelope files must have a file type of SERVLINK. Make note of the file names that you are using as you will need to enter them in place of the variable *envfilename* in the VMFREC commands that follow.

The *ppfname* used throughout these instructions is **5VMRSC40**, which assumes you are using the PPF supplied by IBM for RSCS Networking for z/VM. If you have your own PPF override file for RSCS Networking for z/VM, you should use your file's *ppfname* instead of 5VMRSC40. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated.

1 Log on to the RSCS service user ID **5VMRSC40**

- 2 Establish write access to the Software Inventory Disk (MAINT 51D) if it is not already linked R/W.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user who has it linked R/W link it as R/O. You then can issue the following commands to obtain R/W access to it.

**link maint 51d 51d mr
access 51d d**

The MAINT 51D disk is where the VMSES/E system level software inventory files reside.

- 3 Have the RSCS CORrective service tape mounted and attached to **5VMRSC40** as 181. Or if you have a service envelope (SERVLINK) file make sure it is available on the A-disk or any minidisk or SFS diretory accessed as file mode C.

- 4 Receive the documentation.

a If receiving the service from tape

vmfrec info

The INFO option loads the documentation (including the product service memo) to the 191 disk and displays a list of products on the tape.

b If receiving the service from an envelope file

vmfrec info (env *envfilename*

envfilename is the file name of the documentation envelope (SERVLINK) file.

This command will load the service memo to the 191 disk.

- 5 Review the receive message log (\$VMFMRD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the applicable *System Messages and Codes* or use online HELP.

vmfview receive

Also, make note of which products and components have service on the tape. To do this, use the PF5 key to show all status messages which identify the components on the tape.

- 6 Read the product memo (5VMRSC40 MEMO) before going on. This memo is loaded to the A-disk.

7 Setup the correct minidisk access order

vmfsetup 5VMRSC40 {RSCS|RSCSSFS}

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

8 Clear the alternate APPLY disk for the new service. This command will copy the contents of 2A6 to 2A2.

vmfmrchk 5VMRSC40 {RSCS|RSCSSFS} apply

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

This command clears the alternate APPLY disk.

9 Review the merge message log (\$VMFMRD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the applicable *System Messages and Codes* or use online HELP.

vmfview mrd

7.2.2 Receive the Service

Note: If you are installing multiple service tapes, you can receive all of the service for this product before applying and building it.

For **each** service tape or electronic envelope you want to receive, do the following:

1 Receive the service.

a If receiving the service from tape

vmfrec ppf 5VMRSC40 {RSCS | RSCSSFS}

Use **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in Shared File System directories.

This command receives service from your service tape. All new service is loaded to the DELTA disk.

b If receiving the service from the PTF envelope file

vmfrec ppf 5VMRSC40 {RSCS | RSCSSFS} (env *envfilename*

Use **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in Shared File System directories.

envfilename is the filename of the service (PTF) envelope (SERVLINK) file.

This command receives service from your service envelope. All new service is loaded to the DELTA disk.

```
VMFREC2760I VMFREC processing started
:
VMFREC1852I Volume 1 of 1 of COR nnnn created on 11 March 08
VMFREC1851I (1 of 3) VMFRCAXL processing AXLIST
VMFRCX2159I Loading n part(s) to DELTA 2D2 (H)
VMFREC1851I (2 of 3) VMFRCPTF processing PARTLST
VMFRCPC2159I Loading n part(s) to DELTA 2D2 (H)
VMFREC1851I (3 of 3) VMFRCCOM processing DELTA
VMFRCC2159I Loading n part(s) to DELTA 2D2 (H)
VMFREC2189I Updating Requisite table 5VMRSC40 SRVREQT, Description table
5VMRSC40 SRVDESCT and Receive Status table 5VMRSC40 SRVRECS with n
new PTFs from COR nnnn
VMFREC2760I VMFREC processing completed successfully
READY;
```

- 2** Review the receive message log (\$VMFREC \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the applicable *System Messages and Codes*, or use online HELP.

vmfview receive

7.2.3 Apply the Service

- 1** Apply the new service

vmfapply ppf 5VMRSC40 {RSCS|RSCSSFS}

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

This command applies the service that you just received. The version vector table (VVT) is updated with all serviced parts and all necessary AUX files are generated on the alternate apply disk.

A return code of 4 may mean a local modification has been serviced by this PTF. Review the apply message log by using VMFVIEW. Sample files have been registered as local modifications by IBM to alert you of any changes made.

```
VMFAPP2760I VMFAPPLY processing started
VMFAPP2106I Apply list 5VMRSC40 contains n PTFs that need to be applied and m
PTFs that are already applied
VMFAPP2102I n of p PTFs processed
VMFAPP2105I VMFAPPLY processing completed successfully.
The Apply list 5VMRSC40 contains n PTFs.
p PTFs were already applied.
n PTFs applied successfully.
0 PTFs were included.
0 PTFs were excluded or require excluded PTFs.
0 PTFs failed
VMFAPP2103I The Software Inventory has been updated on the 2A6 (F) disk
READY;
```

- 2** Review the apply message log (\$VMFAPP \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the applicable *System Messages and Codes*, or use online HELP.

vmfview apply

Note: The usable sample files are not touched when servicing RSCS. The usable file name and file type for all sample files can be obtained from the figures in Appendix D, "Supplied Sample Packages" on page 78. If a sample file has been changed by service then you need to compare the serviced version on the 2D2 (DELTA) disk, or the 406 disk after VMFBLD is run, with your usable version and make any changes necessary. The sample files are not used by RSCS.

Note

If you get the message VMFAPP2120W then re-apply any local modifications before building the new RSCS.

For further information on the local modification process, refer to the "Installing Local Service" chapter of the *Service Guide*. Follow the steps that are applicable to your local modification.

The following substitutions need to be made in the service guide when doing local modifications to RSCS:

- **zvm** should be **5VMRSC40**
- *compname* should be **RSCS** (minidisk) or **RSCSSFS** (SFS)
- *appid* should be **5VMRSC40**
- *fm-local* should be the filemode where the 2C2 is accessed
- *fm-applyalt* should be the filemode where the of 2A6 is accessed
- **outmode localmod** should be **outmode localsam**

A couple of things that you need to keep in mind are:

- The 'Compile National Language Files' section is not applicable to RSCS. RSCS languages are compiled using the MCOMP EXEC through the local modification procedure instructions in Appendix B, "Local Modification Example: Assemble File" on page 69.
- When you get to the "Rebuilding Objects" step in the *Service Guide* you should return back to this program directory at 7.2.4, "Update the Build Status Table" on page 41.

Notes:

1. There is a local modification assemble file example in Appendix B, "Local Modification Example: Assemble File" on page 69.

7.2.4 Update the Build Status Table

- 1 Update the Build Status Table with serviced parts.

vmfbld ppf 5VMRSC40 {RSCS|RSCSSFS} (status

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

This command updates the build status table.

Note

If the \$PPF files have been serviced you will get the following prompt:

```
VMFBLD2760I VMFBLD processing started
VMFBLD1851I Reading build lists
VMFBLD2182I Identifying new build requirements
VMFBLD2185R The following source product parameter files have been
serviced:
VMFBLD2185R 5VMRSC40 $PPF
VMFBLD2185R When source product parameter files are serviced, all
product parameter files built from them must be recompiled
using VMFPPF before VMFBLD can be run.
VMFBLD2185R Enter zero (0) to have the serviced source product
parameter files built to your A-disk and exit VMFBLD so
you can recompile your product parameter files with VMFPPF
Enter one (1) to continue only if you have already
recompiled your product parameter files with VMFPPF
```

0 Enter a 0 and complete the following steps before you continue.

```
VMFBLD2188I Building 5VMRSC40 $PPF on 191 (A) from level $PFnnnnn
```

vmfppf 5VMRSC40 {RSCS|RSCSSFS}

Note: If you've created your own PPF override then use your PPF name instead of 5VMRSC40.

You should recompile all overrides to ensure they are at the proper level for future use.

**copyfile 5VMRSC40 \$ppf a = = d (olddate replace
erase 5VMRSC40 \$ppf a**

Note: Do not use your own PPF name in place of 5VMRSC40 for the COPY and ERASE commands.

vmfblld ppf 5VMRSC40 {RSCS|RSCSSFS} (status

1

Re-issue the VMFBLD command to complete updating the build status table. Use your PPF name, if you have an override. When you receive the prompt that was previously displayed, enter a 1 to continue.

2 View the build status messages and see what objects need to be built.

vmfview build

7.2.5 Build Serviced Objects

1 Rebuild RSCS serviced parts.

vmfbld ppf 5VMRSC40 {RSCS|RSCSSFS} (serviced Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

2 Review the build message log (\$VMFBLD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the applicable *System Messages and Codes* or use online HELP.

vmfview build

7.3 Test the New RSCS Service

At this point you can test the service that was applied. Go to Appendix A, "Test the Installation/Service for RSCS" on page 48 for the minimum steps necessary to ensure that your new code is functional. When your testing is complete you will return to 7.4, "Place Serviced RSCS into Production" to place the service into production.

7.4 Place Serviced RSCS into Production

Important note

This procedure should only be done when you have successfully tested the new service. Once you perform this step you can not easily back off to your previous production code. See the "Removing Service Levels" chapter in the *Service Guide* for further details regarding backing off service levels.

Placing the RSCS code into production is a two step process:

- The test code is moved from the test Build disks or directories to the server production disks or directories
- The help and DVF code is placed onto MAINT minidisks.

7.4.1 Copy the Server Code to the Production Minidisks or Directories

This step will be accomplished by using the RSC2PROD EXEC. The RSC2PROD EXEC uses a default *ppfname* of **5VMRSC40** and a default *compname* of **RSCS**. If either the *ppfname* or *compname* being used is different, you will have to tell the RSC2PROD EXEC the names you are using. For example, if the

product is installed in SFS, then use a compname of **RSCSSFS**. To find out more information on the RSC2PROD EXEC issue **rsc2prod {?|help}** after setting up the access order.

You must log off the XCHANGE server before logging on the 5VMRSC40 virtual machine so that 5VMRSC40 can link the server machine minidisks in write mode.

1 Log on to 5VMRSC40, if you are not already logged on to it.

2 Access the disk where the RSC2PROD EXEC resides

access 400 i

3 If you are using RSCS, copy server code to 5VMRSC40's 401 disk

rsc2prod rscs 5VMRSC40 {RSCS|RSCSSFS}

Note: The RSCS server machine links to the 401 disk as its 191.

4 If you are using XCHANGE, RSCSDNS or RSCSAUTH, copy server code to the production disk or directory

rsc2prod xchange 5VMRSC40 {RSCS|RSCSSFS}

Note: The XCHANGE server machine links to the 403 disk, or VMSYS:XCHANGE. directory, as its A-disk. RSCSDNS and RSCSAUTH both access this same disk or directory as file mode B.

5 Log off of 5VMRSC40 so that the server machines can gain R/W access to their 191 minidisks when re-establishing your production environment.

logoff

7.4.2 Copy the RSCS Production Code to MAINT's Minidisks

1 Log on as **MAINT**

Note: The following steps should be done from the MAINT user ID.

2 Copy Dump Viewing Facility TEXT code from 5VMRSC40's 400 disk to MAINT's 193 and 493 disks.

link 5VMRSC40 400 *addr* rr
access *addr* e
access 193 f
vmfcopy * text e = = f (prodid 5VMRSC40%rscs olddate replace

addr is any free disk address on the MAINT user ID.
Note: DVF facilities for RSCS require the 193 disk.

access 493 f
vmfcopy * text e = = f (prodid 5VMRSC40%rscs olddate replace

Note: If these files are not copied to the 493 disk, they will be lost when VM places its serviced code into production.

3 Copy American English help files to MAINT's 19D disk

Note: The CMS HELP segment will have to be re-saved after the help files have been copied.

a If servicing using minidisks

link 5VMRSC40 29d *addr2* rr
access *addr2* e
access 19d f
vmfcopy * * e = = f (prodid 5VMRSC40%RSCS replace olddate

addr2 is any free disk address on the MAINT user ID.

Note: Users wishing to access RSCS help files require the 19D disk.

b If servicing using SFS

access VMSYS:5VMRSC40.RSCS.HELP e
access 19d f
vmfcopy * * e = = f (prodid 5VMRSC40%RSCS replace olddate

Note: Users wishing to access RSCS help files require the 19D disk.

C Rebuild the CMS HELP logical saved segment, to include RSCS's help files from the AMENG Help (MAINT's 19D) disk. See the 'Placing (Serviced) Components into Production' section of the *Service Guide* for detailed information about how these segments should be saved on your system. (Note that you will need to use (**all** instead of (**serviced** on the VMSES/E VMFBLD command when rebuilding any segments.)

4 If uppercase English help files have been installed, place into production on the MAINT 402 disk

a If installing using minidisks

```
link 5VMRSC40 502 addr rr          addr is any free disk address on the MAINT user
access addr e                    ID
access 402 f
vmfcopy ** e = = f (prodid 5VMRSC40%RSCS replace olddate
```

b If installing using SFS

```
access VMSYS:5VMRSC40.RSCS.UHELP e
access 402 f
vmfcopy ** e = = f (prodid 5VMRSC40%RSCS replace olddate
```

7.4.3 Reinitialize the Server Machines

The server machines must be reinitialized in order for them to use the new production code.

Note: Ensure that the installation user ID 5VMRSC40 is not logged on. If the installation user ID is logged on it will prevent the XCHANGE server from accessing its 191 minidisk R/W.

7.4.3.1 Reinitialize the RSCS Server Machine

1 Log on to RSCS.

2 Shutdown the RSCS server machine and restart it.

```
rscs shutdown cp i gcs          After the server initializes, disconnect from it.
```

3 Disconnect from the server machine.

```
rscs disc                      The server is now ready for use.
```

7.4.3.2 Reinitialize the XCHANGE Server Machine, if using it.

1 Log on to XCHANGE.

2 Shutdown the XCHANGE server machine.

```
stop
```

3 IPL CMS to reset the server machine.

ipl cms

After the server initializes, disconnect from it.

4 Disconnect from the server machine.

cp disc

The server is now ready for use.

7.4.3.3 Reinitialize the RSCSAUTH Server Machine, if using it.

1 Log on to RSCSAUTH

2 Shutdown the RSCSAUTH server machine.

stoprscsauth immed

3 IPL CMS to reset the server machine.

ipl cms

After the server initializes, disconnect from it.

4 Disconnect from the server machine.

#cp disc

The server is now ready for use.

7.4.3.4 Reinitialize the RSCSDNS Server Machine

1 Log on to RSCSDNS.

2 IPL CMS to reset the server machine.

#cp ipl cms

After the server initializes, disconnect from it.

3 Disconnect from the server machine.

#cp disc

The server is now ready for use.

You have now finished servicing RSCS

Appendix A. Test the Installation/Service for RSCS

This appendix is used for testing the initial installation of RSCS and its related server machines. It will also be used prior to placing new service into production. You should follow these steps to test each of the server machines that you are using.

Important Information

RSCS FL540 will check if it is enabled during initialization and start command processing. While disabled, **only** support for specific TCP/IP link drivers are available. All other RSCS functions are disabled, and attempts to use them will result in the issuance of either message DMT257I or DMT258I. If you receive either of these messages and you are licensed for RSCS FL540, then you need to complete the RSCS enablement steps starting with step 3 on page 20.

Notes

1. This procedure will require the RSCS server machines to be shutdown. Therefore, you should only test when it will least disrupt your production environment.
2. The install ID does not need to be logged off during testing as the server machines only need R/O links to its disks.
3. Make sure that the GCS server machine has been autologged.
4. Once these instructions have been completed, logging the servers off and back on will cause them to be running the old level of RSCS code.
5. A successful installation of RSCS does not mean that your customization is correct. The installation complete messages only mean that everything has been properly installed onto the disk (or disks).
6. Follow the instructions and enter the commands, as shown after each **Step**, substituting *variable* information where required.

A.1 Test the RSCS Server Machine

This procedure will test the new RSCS code to see that it functions properly. You will log the RSCS server machine on and access the appropriate disks.

The procedures for each part depend on your implementation of the product. Because every customization is different, examples are used that correspond to the sample configuration file shown in the *z/VM: RSCS Networking Planning and Configuration* book. Note that the messages you see may differ from those shown in this section if your link definitions differ from the IBM sample link definitions. Beyond that, this section offers general guidelines to help you get started.

Notes:

1. The command prefix 'RSCS' is used in the command examples shown in this section. The command prefix is determined by the name you specified in the PROFILE GCS for DMTMAN on the LOADCMD statement. The sample PROFILE GCS shipped with RSCS specifies 'RSCS' as the command prefix. See the *z/VM: RSCS Networking Operation and Use* book for more information.

1 Log on to RSCS server user ID **RSCS**.

The RSCS virtual machine should be running GCS (if just logging on it should have IPLed GCS). In addition, the PROFILE GCS should have the following record entries.

- a GLOBAL LOADLIB for the RSCS (and optionally RSCSEXIT) LOADLIB
- LOADCMD RSCS DMTMAN
- RSCS INIT

2 Shutdown the RSCS server machine.

This command shuts down any active links, sessions, and RSCS itself. Because the QUICK operand is not used, RSCS will shut down links after all active files have finished transmission.

Notes:

- a. Use care when issuing the SHUTDOWN command. If you accidentally enter it *without* the appropriate prefix, it is treated as a CP command and passed to CP for execution. Extreme caution must be used with CP privilege classes on the RSCS machine so that you do not accidentally shutdown your VM system.
- b. If the RSCS SHUTDOWN command is rejected or an unknown command, then RSCS is not running and you can skip to step 4 on page 50.

rscs shutdown

This command also produces messages along the way.

- a** For each link that has been started you will see:

```
14:48:54 DMTMAN002I Link linkid deactivated
```

- b** If the RSCS/VTAM interface had been started, you will see:

```
14:48:54 DMTSCT772I RSCS/VTAM interface stopping
14:48:54 DMTSCT773I RSCS/VTAM interface stopped
```

C And finally, you would see:

```
14:48:54 DMTPRD779I TCP Port redirector stopped
14:48:54 DMTMAN100I RSCS Networking terminated
```

3 Remove the old RSCS code from memory.

hx

4 Access the test Build disk.

link 5VMRSC40 400 vaddr rr
access vaddr a

vaddr is any free virtual address. This disk contains the code to be tested. It needs to be accessed ahead of the RSCS 191 minidisk which contains the production code.

5 Access the RSCS production disk as 191

detach 191
link 5VMRSC40 401 191 mr
access 191 c

The 5VMRSC40 401 minidisk contains the production code and configuration files which must be accessed after the test Build disk. This is to allow the new RSCS code to be executed for testing.

6 Bring up RSCS on the server machine.

If RSCS finds any errors in configuration file statements or in starting links, you will see error messages explaining the problem (or problems). For example, if you requested RSCS to use the MSGNOH command, but the USER statement for RSCS in the directory did not specify the correct privilege class, an error will result.

The RSCS load address and address range displayed when starting RSCS help to diagnose any RSCS system problems that might arise later. To display the RSCS load address and address range after installation, use the RSCS QUERY SYSTEM LOADADDRESS command described in the *z/VM: RSCS Networking Operation and Use* book.

profile

```
⋮
14:48:54 DMTMAN010I RSCS Networking loaded at 0001A000-000EC080,
CVT at 0001C6E0, initialization time was 03/07/08 14:48:54
14:48:54 DMTPRD778I TCP Port redirector ready
⋮
14:48:54 DMTMAN000I RSCS Networking Function Level 540-yynn ready
Ready;
```

a If your GCS profile initiates communications with VTAM, you will see the following messages:

```
14:48:54 DMTSCT770I RSCS/VTAM interface starting
14:48:54 DMTAXM109I File queue reordered
14:48:54 DMTSCT771I RSCS/VTAM interface ready
```

If your GCS profile does not start communications with VTAM and you wish to do so, issue the following command:

rscs network start

b If your GCS profile calls an exec to start various links, you will see one of the following messages when each link starts:

1 Non-SNA link:

```
14:48:54 DMTCMY700I Activating link linkid type line=n class=c queuing=qtype
```

2 SNA link:

```
14:48:54 DMTCMY700I Activating link linkid type LUNAME=luname class=c
queuing=qtype LOGMODE=logmode
```

The variable data includes the following:

- Link ID
- Link type
- Virtual line address (non-SNA) or logical unit name (SNA)
- Class of files the link will handle
- Queueing type (FIFO, priority, or size)
- Logmode name (SNA only).

Check to see whether the information in the message text matches what you expected (as specified on LINKDEFINE or LINK statements in your configuration file).

- c** For each printer and workstation link started, you will see the following message:

```
14:48:54 DMTAXM109I File queue reordered
```

- d** For each system and workstation link which receives a signon request from the remote node, you will see the following message:

```
Signon of link linkid complete, buffer size=nnnn
```

7 Issue various RSCS Query commands

The QUERY command has many operands, filters, and SHOW options that let you display information about a link and the RSCS system in general. For example, you can use the QUERY *linkid* command to find out information about a specific link, the QUERY QUEUES command to see a list of files in the link's file queue, and so forth. See the *z/VM: RSCS Networking Operation and Use* book for a description of the QUERY command and instructions on how to use it.

- a** Query the RSCS service level

rscs query system level

yynn will be the year and number of the latest RSU applied to RSCS. If *0000* is displayed, then there have not been any RSUs applied to RSCS.

```
14:48:54 RSCS Networking Function Level 540-yynn  
Ready;
```

- b** Query the status of RSCS/VTAM interface

rscs query system network

- 1** If your GCS profile did not initiate communications with VTAM, you will see the following message:

```
14:48:54 RSCS/VTAM interface stopped  
Ready;
```

- 2** If your GCS profile initiates communications with VTAM, you will see the following message:

```
14:48:54 RSCS/VTAM interface ready
Ready;
```

c Query the status of the RSCS TCP port redirector task:

rscs query system tcpip

```
14:48:54 TCP Port redirector ready
Ready;
```

d Query all system links

This will give you a message about each link you have defined to RSCS. Check to see that all links are present and appear as you expected (from LINKDEFINE or LINK statements in your configuration file).

For each link, RSCS displays the current status (active, connect, inactive, and so forth).

Note: You may not want to perform this step if many RSCS links are defined at your installation.

rscs query system links

1 If you did not define any links in your configuration file, you will see:

```
14:48:54 No links defined
Ready;
```

2 Otherwise you will see:

```

14:48:54 Link
14:48:54 Name      Status   Type     Addr LU Name  Logmode  Queuing
14:48:54 BOSTON  inactive SNANJE  0000 TN2RSCS  ...      size
14:48:54 CHICAGO  inactive SNANJE  0000 N051ZRSC RSCSNJE0 size
14:48:54 CLEVELND  inactive SNANJE  0000 TNARSCS  ...      size
14:48:54 DALLAS   inactive SNANJE  0000 TNHRSCS  ...      size
14:48:54 LONDON   inactive SNANJE  0000 TNBRSCS  ...      size
14:48:54 RALEIGH  inactive SNANJE  0000 TN7RSCS  RSCS07   size
14:48:54 TOKYO    inactive SNANJE  0000 QHARSCS  RSCSNJE0 size
14:48:54 TORONTO  inactive SNANJE  0000 OVCVRSCS RSCSNJE0 size
14:48:54 NYDEVSYS  inactive NJE     00A4 ...      ...      size
14:48:54 RESLAB   inactive NJE     0581 ...      ...      size
14:48:54 HQARTRS  inactive SNANJE  0000 WZ2RSCS  RSCSNJE0 size
14:48:54 ENDICOTT  inactive TCPNJE  0000 ...      ...      size
14:48:54 GLENDALE  inactive TCPNJE  0000 ...      ...      size
14:48:54 *LIST    inactive LISTPROC 0000 ...      ...      size
14:48:54 *UNKNOWN  inactive NOTIFY  0000 ...      ...      FIFO
14:48:54 *NOTHERE  inactive NOTIFY  0000 ...      ...      FIFO
14:48:54 LNKMRJE  inactive MRJE    0002 ...      ...      size
14:48:54 LNKRJE   inactive RJE     0003 ...      ...      size
14:48:54 PRT3812A  inactive 3270P  0DFA ...      ...      size
14:48:54 PRT3812B  inactive 3270P  0DFB ...      ...      size
14:48:54 PRT3812C  inactive 3270P  0DFC ...      ...      size
14:48:54 PRT38001  inactive SNA3270P 0000 PRT1RSCS SCS3800 size
14:48:54 PRT38002  inactive SNA3270P 0000 PRT2RSCS SCS3800 size
14:48:54 PRT38003  inactive SNA3270P 0000 PRT3RSCS SCS3800 size
14:48:54 PRT3820A  inactive SNA3270P 0000 PRTARSCS SCS3820 size
14:48:54 PRT3820B  inactive SNA3270P 0000 PRTBRSCS SCS3820 size
14:48:54 PRT3820C  inactive SNA3270P 0000 PRTCRCSCS SCS3820 size
14:48:54 PRT4250A  inactive SNA3270P 0000 ACRRCRSCS SCS4250 FIFO
14:48:54 PRT4250B  inactive SNA3270P 0000 BCRRCRSCS SCS4250 FIFO
14:48:54 PRT4250C  inactive SNA3270P 0000 CCRRCRSCS SCS4250 FIFO
14:48:54 PROPRINT  inactive TCPASCII 0000 ...      ...      FIFO
14:48:54 PROPRNTA  inactive TCPASCII 0000 ...      ...      FIFO
14:48:54 PROPRNTB  inactive TCPASCII 0000 ...      ...      FIFO
14:48:54 AIXDAEMN  inactive LPR     0000 ...      ...      FIFO
14:48:54 34 links found
Ready;

```

e Query all system ports

This will give you a message about each port you have defined to RSCS. Check to see that all ports are present and appear as expected (from PORT statements defined in your configuration file).

The second column gives you information about the status of each port. This example shows that all three ports are not currently being used. The other states are *disabling*, *enabled* (for auto-answer links), and *in use*.

The QUERY command displays information about the ports that are defined by the PORTS configuration file statement. These are not the ports defined by the PARM statements for various links (for example, TCPASCII or LPR).

Note: You may not want to perform this step if many RSCS ports are defined at your installation.

rscs query system ports

1 If you did not define any ports in your configuration file, you will see:

```
14:48:54 No ports available
Ready;
```

2 Otherwise you will see:

```
14:48:54 Port          Auto
14:48:54 Address State      Dial Trace Link
14:48:54 0080 free         no  none  ...
14:48:54 0081 free         no  none  ...
14:48:54 0082 free         yes none  ...
14:48:54 3 ports found
Ready;
```

f Query all link defaults

This will give you a message about each link you have defined to RSCS and the associated link default definitions. Check to see that all links are present and appear as you expected (from LINKDEFINE or LINK statements in your configuration file).

For each link, RSCS displays defaults such as type, line address, SNA LU name, SNA logmode, transmission spool class, type of queuing, and dispatching priority.

Note: You may not want to perform this step if many RSCS links are defined at your installation.

rscs query system links show default

1 If you did not define any links in your configuration file, you will see:

```
14:48:54 No links defined
Ready;
```

2 Otherwise you will see:

```

14:48:54
14:48:54 Link      Default Def Default Default Def  Default Default
14:48:54 Name      Type   Line LU Name  Logmode Class Queueing Priority
14:48:54 BOSTON   SNANJE 0000 TN2RSCS  ...   *   size      5
14:48:54 CHICAGO  SNANJE 0000 N051ZRSC RSCSNJE0 *   size      5
14:48:54 CLEVELND SNANJE 0000 TNARSCS  ...   *   size      5
14:48:54 DALLAS   SNANJE 0000 TNHRSCS  ...   *   size      5
14:48:54 LONDON   SNANJE 0000 TNBRSCS  ...   *   size      5
14:48:54 RALEIGH  SNANJE 0000 TN7RSCS  RSCS07 *   size      5
14:48:54 TOKYO    SNANJE 0000 QHARSCS  RSCSNJE0 *   size      5
14:48:54 TORONTO  SNANJE 0000 OVCVRSCS RSCSNJE0 *   size      5
14:48:54 NYDEVSYS NJE     00A4 ...     ...     *   size      5
14:48:54 RESLAB   NJE     0581 ...     ...     *   size      4
14:48:54 HQUARTRS SNANJE 0000 WZ2RSCS  RSCSNJE0 *   size      5
14:48:54 ENDICOTT TCPNJE 0000 ...     ...     *   size      5
14:48:54 GLENDALE TCPNJE 0000 ...     ...     *   size      5
14:48:54 *LIST    LISTPROC 0000 ...     ...     *   size      5
14:48:54 *UNKNOWN NOTIFY 0000 ...     ...     *   FIFO      5
14:48:54 *NOTHERE NOTIFY 0000 ...     ...     *   FIFO      5
14:48:54 LNKMRJE  MRJE    0002 ...     ...     *   size      5
14:48:54 LNKRJE   RJE     0003 ...     ...     *   size      5
14:48:54 PRT3812A 3270P 0DFA ...     ...     *   size      5
14:48:54 PRT3812B 3270P 0DFB ...     ...     *   size      5
14:48:54 PRT3812C 3270P 0DFC ...     ...     *   size      5
14:48:54 PRT38001 SNA3270P 0000 PRT1RSCS SCS3800 *   size      5
14:48:54 PRT38002 SNA3270P 0000 PRT2RSCS SCS3800 *   size      5
14:48:54 PRT38003 SNA3270P 0000 PRT3RSCS SCS3800 *   size      5
14:48:54 PRT3820A SNA3270P 0000 PRTARSCS SCS3820 *   size      5
14:48:54 PRT3820B SNA3270P 0000 PRTBRSCS SCS3820 *   size      5
14:48:54 PRT3820C SNA3270P 0000 PRTCRCSCS SCS3820 *   size      5
14:48:54 PRT4250A SNA3270P 0000 ACRCRSCS SCS4250 *   FIFO      5
14:48:54 PRT4250B SNA3270P 0000 BCRCRSCS SCS4250 *   FIFO      5
14:48:54 PRT4250C SNA3270P 0000 CCRCRSCS SCS4250 *   FIFO      5
14:48:54 PROPRINT TCPASCII 0000 ...     ...     *   FIFO      5
14:48:54 PROPRNTA TCPASCII 0000 ...     ...     *   FIFO      5
14:48:54 PROPRNTB TCPASCII 0000 ...     ...     *   FIFO      5
14:48:54 AIXDAEMN LPR     0000 ...     ...     *   FIFO      5
14:48:54 34 links found
Ready;

```

g Query destination identifiers

This will give you a message for each PSF destination defined to RSCS in the DEST file. Check to see that all the destination identifiers are present (from DEST statements in your configuration file or from entries in your destination identifier file).

Note: You may not want to perform this step if many identifiers are defined at your installation.

rscs query system dest

1 If you did not define any destination identifiers, you will see:


```
14:48:54 No destination identifiers defined
Ready;
```

2 Otherwise you will see:

```
14:48:54 PSF
14:48:54 Destination
14:48:54 PSFPRT1
14:48:54 PSFPRT2
14:48:54 PSFPRT3
14:48:54 PSFPRT4
14:48:54 PSFPRT5
14:48:54 5 dests found
Ready;
```

h Query exit points

This will give you a message for each exit point defined to RSCS. Check the addresses at which RSCS loaded the various exit routines and compare the difference to the size of your load module. The address of the entry points should relate to the location of the entry points in the source module. If not, the entry points are in separate copies of the load module.

rscs query system exits

1 If you did not define any exits in your configuration file, you will see:

```
14:48:54 No exit routines loaded
Ready;
```

2 Otherwise you will see:

```

14:48:54 Exit      Entry Point
14:48:54 Number Name      Address  Status
14:48:54    0 SSSECU00 01221016 on
14:48:54    1 SSSECU01 012212B8 on
14:48:54    2 SASPOL02 0121FB96 on
14:48:54    3 SASPOL03 0121FC4E on
14:48:54    4 SASPOL04 0121FCF0 on
14:48:54    5 SASPOL05 0121FD96 on
14:48:54   14 SSSECU14 01221382 on
14:48:54   15 SSSECU15 01221588 on
14:48:54   19 SSSECU19 012217CC on
14:48:54   21 SSSECU21 01221ABC on
14:48:54   32 SSSECU32 01221C08 on
14:48:54 11 exits found
Ready;

```

8 Disconnect the RSCS user ID

rscs disc

If you defined any system-authorized or link-authorized alternate operators in your configuration file, have them try to perform some privileged operations.

9 Logon to a separate user ID which is authorized to issue restricted RSCS commands.

From a system-authorized or link-authorized alternate operator, try to perform some privileged operations. Unless specifically authorized, system-authorized alternate operators should not be able to use the RSCS CP command. Link-authorized alternate operators should be able to enter commands that affect a specific link, but not commands that affect RSCS operation. (The *z/VM: RSCS Networking Operation and Use* book lists the authorization categories for commands.)

- a** Test to see that it is possible to communicate over each connected link.
- b** Test to see whether messages include CP headers or not (whichever you requested).

msg rscs msg *nodeid* *userid* testing for msgnoh Where *nodeid* is the node ID on the RSCS local configuration statement, and *userid* is the user ID you are testing from. If the response includes a CP message header, RSCS is not using MSGNOH and thus is not suppressing CP headers.

If you specified MSGNOH (as recommended), you will see:

```
From nodeid(userid): TESTING FOR MSGNOH
```

- c** For printer links, you can send a message to (print at) the printer. Someone near the device can tell you if the message arrives.
- d** Try defining some links or routes (using the DEFINE and ROUTE commands) and verify them (using the QUERY command). Enter some REROUTE commands and query the results. (See the *z/VM: RSCS Networking Operation and Use* book for command formats.) For example, enter the following command:

msg rscs query system reroutes

- 1** If you did not define any reroutes in your configuration file or you used the REROUTE command to remove them, you will see:

```
No reroutes in effect
```

- 2** Otherwise you will see:

```
      For              To
Node  User   Type   Node  User   Quiet
DEVSYS *     all   NYDEVSYS =  yes
DEVSYS SYSTEM commands NYDEVSYS SYSTEM  yes
NEWYORK OP1   not-rec NEWYORK OPER1  yes
NEWYORK OP2   not-rec NEWYORK OPER2  yes
NEWYORK OP3   not-rec NEWYORK OPER3  yes
NEWYORK JANETM files  NEWYORK JANETF  no
6 reroutes found
```

- e** You can send files back and forth on some links and verify the link status by entering:

msg rscs query system queues

```
Link
Name      Status      Sending Receiving Queued Looping Held
BOSTON    connect     0        0        3        3        0
CHICAGO   inactive    0        0        8        0        0
CLEVELND  inactive    0        0        1        0        0
```

f Any other verification you do will depend on your installation's particular setup. Do enough verification to guarantee that RSCS is functioning in your environment the way you planned it.

A.1.1 Restarting RSCS After Modifying Your Configuration

If you need to modify your RSCS configuration (such as to change the definition of a port or link) after starting RSCS, use the following procedure to place the changes online:

1 Log on to the installation user ID, 5VMRSC40

2 Access the 401 minidisk.

access 401 e

The 5VMRSC40 401 minidisk is RSCS's 191 minidisk.

3 Make the appropriate configuration changes

4 Log off the installation user ID.

logoff

5 Log on to the RSCS virtual machine.

a If RSCS is running, enter:

rscs shutdown cp ipl gcs

b If RSCS is not running, enter:

ipl gcs

c Disconnect from the RSCS virtual machine

rscs disc

A.2 Test the Data Interchange Manager Server Machine (XCHANGE)

This procedure will test the new Data Interchange Manager code to see that it functions properly. You will log the XCHANGE server machine on and access the appropriate disks. A second user ID is needed in order to verify the Data Interchange Manager server. You will also need to ensure that the paths to RSCS and SMTP are available.

1 Log on to the Data Interchange Manager server user ID **XCHANGE**.

2 Shutdown the XCHANGE server machine.

Note: If you are installing RSCS, the server machine will be just coming up. When it has initialized you then can issue the stop command.

stop

3 Define a temporary minidisk that will be used as XCHANGE's A-disk.

define tdasd vaddr 5

tdasd is the DASD type of the temporary disk that you are going to define.

vaddr is any free virtual address on this user ID.

4 Format the temporary minidisk.

format vaddr a

vaddr is the virtual address that you defined.

DMSFOR603R FORMAT will erase all files on disk A(*vaddr*). Do you wish to continue?
Enter 1 (YES) or 0 (NO).

1

DMSFOR605R Enter disk label:

tmp191

DMSFOR733I Formatting disk A
DMSFOR732I *n* {cylinders|blocks} formatted on A(*vaddr*)

5 Detach the current disk or directory used as XCHANGE's log-disk.

a If using minidisks

detach 5BF

The 5BF disk contains the production XCHANGE logging files. It needs to be detached in order to define a temporary one for testing purposes. That way testing logs will not be intermixed with production ones.

b If using SFS

release logfm

logfm is the filemode where the VMSYS:XCHANGE.LOG directory is accessed. This SFS directory contains the production XCHANGE logging files. It needs to be released in order to define a temporary disk for testing purposes. That way testing logs will not be intermixed with production ones.

6 Define a temporary minidisk that will be used as XCHANGE's log-disk.

define tdasd 5BF 5

dasd is the DASD type of the temporary disk that you are going to define.

7 Format the temporary minidisk.

format 5BF b

DMSFOR603R FORMAT will erase all files on disk B(5BF). Do you wish to continue?
Enter 1 (YES) or 0 (NO).

1

DMSFOR605R Enter disk label:

tmp5BF

DMSFOR733I Formatting disk B
DMSFOR732I *n* {cylinders|blocks} formatted on B(5BF)

8 Access the test Build disk or directory.

a If using minidisks

link 5VMRSC40 402 *vaddr1 rr*
access *vaddr1 freefm*

vaddr1 is any free virtual address. This disk contains the code to be tested. It needs to be accessed ahead of the XCHANGE disk containing the production code. *freefm* is any free access mode for the XCHANGE user ID.

b If using SFS

access VMSYS:5VMRSC40.RSCS.XCHTEST *freefm* This SFS directory contains the code to be tested. It needs to be accessed ahead of the XCHANGE directory containing the production code. *freefm* is any free access mode for the XCHANGE user ID.

9 Access the production Build disk or directory.

a If using minidisks

access 191 *freefm1*

Where *freefm1* is any free access mode for the XCHANGE user ID. The production Build disk containing the production code and configuration files must be accessed after the test Build disk. This is to allow the new Data Interchange Manager code to be executed for testing.

b If using SFS

access VMSYS:XCHANGE. *freefm1*

Where *freefm1* is any free access mode for the XCHANGE user ID. This SFS directory contains the production code and configuration files must be accessed after the test Build directory. This is to allow the new Data Interchange Manager code to be executed for testing.

10 Start the XCHANGE server machine using the new code.

profile

```
⋮  
ACHAMA010I RSCS Interchange Function Level 540-0000 initializing on 15 Mar 2008 15:22:34  
ACHAMA001I Reading configuration file XCHANGE CONFIG *  
ACHAMA000I RSCS Data Interchange Manager Function Level 540.yynn ready  
⋮
```

11 Issue a QUERY command

query system

yyyn will be the year and number of the latest RSU applied to RSCS. If *0000* is displayed, then there have not been any RSUs applied to RSCS.

An example of the system response might be:

```
ACHAMA621I Files processed = 0, rejected = 0  
ACHAMA619I Nick Override is All  
ACHAMA620I Nick Priv is 'Off'  
ACHAMA000I RSCS Data Interchange Manager Function Level 540.yynn ready
```

12 Disconnect the XCHANGE user ID

cp disc

13 Log on to any other valid CMS user ID. This needs to be done so that you can send a message through the XCHANGE server.

- a Obtain a list of valid XCHANGE nicknames.

msg xchange query nick all

Note: If you do not have any nicknames established, you can use the NICK ADD command to add a valid XCHANGE nickname. See *z/VM: RSCS Networking Planning and Configuration*, Chapter 4 "RSCS Data Interchange Manager" under "How Does it Work?", and the "NICK" command in *z/VM: RSCS Networking Operation and Use*, Chapter 15 "RSCS Interchange Commands" for information on adding nicknames.

- b Send a message to a valid XCHANGE nickname

note nickname

nickname is any valid nickname returned by XCHANGE from the Query NICK ALL command.

A.3 Test the RSCS Authorization Server Machine (RSCSAUTH)

This procedure will test the new RSCSAUTH code to see that it functions properly. You will log the RSCSAUTH server machine on and access the appropriate disks. A second user ID is needed in order to verify the RSCS authorization. You will also need to ensure that the RSCS server is available.

1 Log on to the RSCS authorization server user ID **RSCSAUTH**.

2 Shutdown the RSCSAUTH server machine.

Note: If you are installing RSCS, the server machine will be just coming up. When it has initialized you then can issue the stop command.

stoprscsauth

3 Access the test Build disk or directory.

a If using minidisks

link 5VMRSC40 402 *vaddr1 rr*
access *vaddr1 freefm*

vaddr1 is any free virtual address. This disk contains the code to be tested. It needs to be accessed ahead of the disk containing the RSCSAUTH production code. *freefm* is any free access mode for the RSCSAUTH user ID.

b If using SFS

access VMSYS:XCHANGE. *freefm*

This SFS directory contains the code to be tested. It needs to be accessed ahead of the disk containing the RSCSAUTH production code. *freefm* is any free access mode for the RSCSAUTH user ID.

4 Access the production Build disk or directory.

a If using minidisks

access 403 *freefm1*

Where *freefm1* is any free access mode for the RSCSAUTH user ID. The production Build disk containing the production code and configuration files must be accessed after the test Build disk. This is to allow the new RSCSAUTH code to be executed for testing.

b If using SFS

access **VMSYS:XCHANGE**. *freefm1*

Where *freefm1* is any free access mode for the RSCSAUTH user ID. This SFS directory contains the production code and configuration files must be accessed after the test Build directory. This is to allow the new RSCSAUTH code to be executed for testing.

5 Start the RSCSAUTH server machine using the new code.

rscsauth

```
⋮
DMTATH2042I Authorized_user is the fully authorized user
DMTATH2046I A is the file mode used to maintain the RSCSAUTH configuration files
DMTATH3090I Trace is defined as OFF
DMTATH4015I All SPOOL / RDR files will be transferred to the :RSCS server
for processing
DMTATH3080I Critical messages will be sent to tell_user_id
DMTATH3095I RSCS commands will be handled by the rscs_id server
DMTATH4000I Logging is enabled. Messages will be recorded in NEWKEEP. A maximum
of 8 log files will be maintained
DMTATH2997I RSCSCMDS CONFIG A is not available to the RSCSAUTH server
DMTATH3020I RSCSAUTH Server Function Level 540-0000 is running
DMTATH3036I QUERY SYSTEM LOCAL requested by RSCSAUTH Server
⋮
```

6 Disconnect the RSCSAUTH user ID

#cp disc

7 Log on to the RSCSAUTH administration ID. This is the ID previously defined in the RSCSAUTH CONFIG file as having administration authority. The default administration ID shipped in the sample RSCSAUTH CONFIG is MAINT.

8 Create command group RSCS_QUERY with command 'QUERY'

MSG rscsauth_server_id COMMANDGROUP
ADD RSCS_QUERY QUERY

rscsauth_server_id is the user ID where RSCSAUTH is running.

An example of the system response might be:

```
DMTATH3035I COMMANDGROUP ADD RSCS_QUERY QUERY requested by MAINT AT GDLVM7
DMTATH2100I Command QUERY has been added to the Command Group Table for group
RSCS_QUERY
```

9 Authorize a third user ID for command group RSCS_QUERY

MSG *rscsauth_server_id* **USERAUTH ADD** *userid* **RSCS_QUERY**

rscsauth_server_id is the user ID where RSCSAUTH is running. *userid* is a third user ID where an RSCS Query command will be issued from.

An example of the system response might be:

```
DMTATH3035I USERAUTH ADD userid RSCS QUERY requested by auth_user
DMTATH2100I Command Group RSCS_QUERY has been added to the User Authorization
Table for user userid
```

10 Log on to the user ID you just granted authority to issue the RSCS Query command to

11 Issue an RSCS Query command through the RSCSAUTH server

MSG *rscsauth_server_id* **QUERY LINKS**

rscsauth_server_id is the user ID where RSCSAUTH is running.

You should received a query response from the RSCS server.

```
02:11:12 Link
02:11:12 Name      Status      Type      Line
:              Addr LU Name  Logmode   Queueing
```

What's Next?

Verification of RSCS is now complete.

Where to next?

If installing, proceed with 6.5, "Place RSCS Into Production" on page 33 to place the new RSCS code into production.

OR

If servicing, proceed with 7.4, "Place Serviced RSCS into Production" on page 43 to **replace** the RSCS code running in production on your system with the newly serviced code.

Appendix B. Local Modification Example: Assemble File

Notes!

- This appendix provides an example for updating the DMTMAN ASSEMBLE part. You should substitute the file name of the part you are modifying for DMTMAN in the instructions. Since the output of the instructions is to create a TEXT file type with an abbreviation of TXT, you should substitute the abbreviation of the file type you are modifying for TXT. You can use these instructions to create local modifications to a RSCS message repository, conversion repository, exec, or any other RSCS part.
- You can use the LOCALMOD EXEC, instead of these instructions, to put a local modification on to RSCS, except to compile RSCS language message or conversion repositories. Refer to the Appendix "Apply or Rework a Local Modification" in the *z/VM: Guide for Automated Installation and Service*.
- If you wish to use one of your own exits instead of a sample one provided by IBM, then you can do so in a couple of different ways:
 1. Add your exits to the DMTBLELL build list as a local modification and rebuild the RSCSEXIT LOADLIB.
 2. Build your own exit LOADLIB and add it to the list of LOADLIBs specified on the GLOBAL statement of the PROFILE GCS file.
- If you wish to change the language of messages issued by Data Interchange Manager to uppercase English, then you will need to do the following:
 1. Update the DMTBLELL build list as a local modification changing the line **:PARTID. ACHAMENG TXT** to **:PARTID. ACHAUENG TXT**.
 2. Run VMFBLD to pick up the changes in the build lists.
- If you are assembling RSCS parts that require VTAM MACLIBs, then ensure the VTAM minidisk containing the VTAMMAC MACLIB is linked and accessed manually or by using the PPF override described in section 5.2.9, "Program Installation Considerations for RSCS/VTAM Interface" on page 12.

1 Setup the required access order

vmfsetup 5VMRSC40 {RSCS|RSCSSFS}

Use component name **RSCS** if servicing using minidisks or **RSCSSFS** if servicing using SFS.

2 Create/Edit the AUXLCL file for the part to update

Note: This step can be skipped when applying a local modification to a full part replacement part.

```
xedit dmtman auxlcl fmlocal (noprof
====> input UPDT0001 LCL LCL0001 * comment
====> file
```

fmlocal is the fm of the local modification and sample disk or directory

3 XEDIT Source file to create the update file

Note: You do not need the XEDIT control (CTL) option when editing a full part replacement part.

```
xedit dmtman assemble (ctl dmtvm
====> fm fmlocal
```

fmlocal is the fm of the local modification and sample disk or directory

4 Make your desired changes

5 Issue the XEDIT file command

```
====> file
```

6 Use VMFHLASM to generate the text deck with the changes. The following is a list of execs which can be substituted for VMFHLASM when doing local modifications to RSCS parts other than ASSEMBLE:

- MCOMP to compile a message repository (see the *VM/RSCS Exit Customization* manual for details). This EXEC is shipped interpretive (filetype = SEXEC) and compiled (filetype = EXEC). If you would rather use the interpretive exec instead of compiled, copy the SEXEC as EXEC on the RSCS test disk (400), replacing the compiled copy.
- MCONV to compile a conversion repository (see the *VM/RSCS Exit Customization* manual for details). This EXEC is shipped interpretive (filetype = SEXEC) and compiled (filetype = EXEC). If you would rather use the interpretive exec instead of compiled, copy the SEXEC as EXEC on the RSCS test disk (400), replacing the compiled copy.
- EXECUPTD to update a \$EXEC part
- This step may be skipped for other RSCS parts such as full part replacement parts or build lists.

```
vmfhlasm dmtman 5VMRSC40 {RSCS|RSCSSFS} (logmod $select outmode localsam
```

Use component name **RSCS** if using minidisks or **RSCSSFS** if using SFS.

7 Create or update the 5VMRSC40 \$SELECT and VVTLCCL files for full part replacement parts only.

Note: This step can be skipped when applying a local modification to a source maintained/updated part.

vmfrepl *fn ft* 5VMRSC40 {RSCS|RSCSSFS} *fn ft fmlocal* (**logmod I0001 \$select outmode localsam vvtft vvtcl**

fn ft is the file name and file type of the full part replacement file receiving the local modification.

fmlocal is the fm of the local modification and sample disk or directory

Use component name **RSCS** if using minidisks or **RSCSSFS** if using SFS.

8 Build the RSCS product by issuing VMFBLD

vmfbld **ppf** 5VMRSC40 {RSCS|RSCSSFS} (**serviced** Use component name **RSCS** if using minidisks or **RSCSSFS** if using SFS.

Appendix C. Applying a Recommended Service Upgrade (RSU) Tape For RSCS

Note - z/VM Automated Service Procedure

The **preferred** method for installing service to RSCS is to use the z/VM automated service procedure (use of the **SERVICE** and **PUT2PROD** commands).

If you have chosen to use the automated procedure to apply preventive (RSU) and CORrective service to your z/VM system, you need to follow the service instructions documented in the *z/VM: Guide for Automated Installation and Service* manual, instead of those presented here.

Note!

You should first read through the RSU hard copy memo contained with the tape before continuing with these instructions.

The RSU tape is structured to install all PTFs included on the tape plus the tape files containing the preapplied service and prebuilt objects. All PTF-related files are loaded to the Delta disk. The tape file containing the preapplied service, i.e. containing the results of VMFAPPLY, is loaded to the alternate apply disk and the contents of the tape files containing prebuilt objects are loaded to the appropriate Build disks.

Points to consider about using the Product Service Upgrade procedure are:

- This process will not alter any of your tailored flat files (files serviced by full part replacement only such as RSCS CONFIG) in any way. Sample files which may have been updated using update files will have to have those updates reapplied.
- Planning must be done (such as determining any DASD size changes, and determining what service, if any, on your existing system is not contained on the RSU tape) prior to actually loading the service from the RSU tape. These tasks will be discussed.

The following outline is an overview of what tasks need to be performed during the PSU procedure:

- Prepare System

In this task, you will receive the documentation contained on the RSU tape and determine the DASD required to install the RSU tape.

- Merge Service

Use the VMFMRDSK command to clear the alternate apply disk before receiving the RSU tape. This allows you to remove the new service if a serious problem is found.

- Receive Service

The VMFINS command receives service from the RSU tape and places it on the Delta disk.

- Apply Additional Service

The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them. These steps are used to reapply service that was not contained on the refresh tape that was already installed for RSCS.

- Reapply Local Service (if applicable)

All local service must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system.

- Build a New Level

The build task generates the serviced level of an object and places the new object on a Build disk.

- Place the New Service into Production

Once the service is satisfactorily tested it should be put into production by copying the new service to the production disk, re-saving the DCSS (Discontiguous Saved Segments), etc.

C.1 Apply RSCS RSU

C.1.1 Prepare Your System for Service Refresh

Electronic Service (envelope file)

If you have received the RSU electronically or on CD-ROM, follow the appropriate instructions to retrieve and decompress the envelope file to your A-disk. The decompression is currently done by using the DETERSE MODULE (shipped with VMSES/E).

The service (RSU PTF) envelope files must have a file type of SERVLINK. Make note of the file names that you are using as you will need to enter them in place of the variable *envfilename* in the VMFINS commands that follow.

The documentation envelope file will be a readable flat file after DETERSE is run against it. It will not get used in the following RSU application instructions.

The *ppfname* used throughout these instructions is **5VMRSC40**, which assumes you are using the PPF supplied by IBM for RSCS. If you have your own PPF override file for RSCS you should use your file's *ppfname* instead of **5VMRSC40**. The *ppfname* you use should be used **throughout** the rest of this procedure.

- 1** Log on to the RSCS Networking for z/VM service user ID 5VMRSC40
- 2** Establish write access to the Software Inventory Disk (MAINT 51D) if it is not already linked R/W.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user who has it linked R/W link it as R/O. You then can issue the following commands to obtain R/W access to it.

**link maint 51d 51d mr
access 51d d**

The MAINT 51D disk is where the VMSES/E system level software inventory files reside.

3 Mount the RSU tape on the tape drive as virtual device 181 (you must use 181). Or if you have a service envelope (SERVLINK) file make sure it is available on the A-disk or any minidisk or SFS diretory accessed as file mode C.

4 Receive the documentation:

Receive the documentation on the tape for the RSU tape. This step will also load the cumulative Apply Status Table (RSCS SRVAPPS) which identifies all preapplied service contained on the tape. These files are loaded to the 51D disk.

a If receiving the RSU from tape

vmfins install info (nomemo

b If receiving the RSU from an envelope file

vmfins install info (nomemo env *envfilename*

envfilename is the file name of service (RSU PTF) envelope file (SERVLINK) that represents volume 1 of the RSU.

5 Determine DASD sizes for disks to receive service:

In order to receive the service from the RSU tape, you need to have adequate space available on the alternate APPLY, Delta, and Build disks or directories. The required sizes are identified in the RSCS documentation (5VMRSC40 MEMO D) received in the previous step.

6 Setup the correct minidisk access order

vmfsetup 5VMRSC40 {RSCS|RSCSSFS}

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

7 Merge the APPLY disks for RSCS:

Next, you must prepare your system to receive the service from the RSU tape. To do this, you must first clear the alternate apply disk for receipt of the service from the RSU tape.

Enter the VMFMRDSK command to merge the alternate apply disk to the apply disk. This will clear the alternate apply disk.

vmfmrdsk 5VMRSC40 {RSCS|RSCSSFS} apply

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

8 Invoke the VMFPSU command to identify any local modifications.

vmfpsu 5VMRSC40 {RSCS|RSCSSFS}

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

This command produces an output file that contains information about the service on the RSU compared against the service and local modifications on your system. The file name is **5VMRSC40 PSUPLAN**. If local modifications touch parts that have been serviced, the DMT\$PSU\$ \$SELECT file will be created or updated to force a rebuild of those parts.

C.1.2 Receive the Preapplied, Prebuilt Service

1 Refresh the RSCS service disks by loading new service from the RSU tape:

a If receiving the RSU from tape

vmfins install ppf 5VMRSC40 {RSCS|RSCSSFS} (nomemo nolink

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

b If receiving the RSU from an envelope file

vmfins install ppf 5VMRSC40 {RSCS|RSCSSFS} (nomemo nolink env *envfilename*

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

If you have more than one envelope for the RSU then you need to enter the file name of volume 1 of the RSU. You will be prompted for the others when needed.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5VMRSC40 RSCS :PRODID
5VMRSC40%RSCS?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
```

- 2 Check the install message log (\$VMFINS \$MSGLOG) for warning and error messages. If necessary, correct any problems before going on. For information about handling specific install messages, see the applicable *System Messages and Codes*, or use online HELP.

vmfview install

C.1.3 Process Additional Service

- 1 Apply additional service:

The VMFAPPLY command is used to reapply service that was not contained on the refresh tape that was already installed for the component.

Applying service with preapplied, prebuilt service will reapply any reach-ahead service that may be on the system **or** indicate that there are no reach-ahead PTFs to be applied.

vmfapply ppf 5VMRSC40 {RSCS|RSCSSFS}

Use component name **RSCS** if the product is installed on minidisks or **RSCSSFS** if the product is installed in SFS.

Messages VMFAPP2122E and VMFAPP2109R will be displayed only if you have reach-ahead service that needs to be reapplied.

VMFAPP2122E The set of PTFs in the Apply Status Table (5VMRSC40 SRVAPPS) on the 2A2 (G) disk is not a subset of the PTFs in the highest Level Apply Status Table on the 2A6 (F) disk. This is an inconsistent state.

VMFAPP2109R VMFAPPLY will automatically correct the problem identified by message 2122E by including the missing PTFs in the current Apply List. Enter (1) to continue; (0) to quit.

1

If you receive these messages, enter **1** for VMFAPPLY to reapply the reach-ahead service.

- 2 Check the apply message log (\$VMFAPP \$MSGLOG) for warning and error messages. If necessary, correct any problems before going on. For information about handling specific apply messages, see the applicable *System Messages and Codes*, or use online HELP.

vmfview apply

- 3 If necessary, rework local service

The **5VMRSC40 PSUPLAN** (output from running the VMFPSU command), can be used to indicate what local service or modifications are affected by the RSU tape. If a PTF is applied and it contains service to a part for which you have a local modification, you will need to rework the local modification. Refer to the *Service Guide*.

This also applies to any of the sample tailorable files which have been serviced. You should make any necessary applicable changes to the usable sample file. The usable sample files are not touched when servicing RSCS. The usable file name and file type for all sample files can be obtained from figures in Appendix D, "Supplied Sample Packages" on page 78. The sample files are not used by RSCS.

C.1.3.1 Build the New Service Level

The last task is to rebuild all objects that were affected by reach-ahead service that was reapplied, local modifications, and saved segments. Choose one of the following sections to proceed with based on whether there is any reach-ahead service or local modifications to be reapplied.

- If there is no reach-ahead service (the VMFAPPLY step indicated no additional PTF's have been applied) or local modifications to be reapplied, then all objects or parts have been built and received to the test Build disks during the receive of the RSU. Installation of the RSU is complete. It is not necessary to do the build step since there will not be any objects or parts flagged to be built. Continue with step 7.3, "Test the New RSCS Service" on page 43 to test the new service and place it into production.
- If there is reach-ahead service or a local modification that needs to be reapplied, continue with step 7.2.4, "Update the Build Status Table" on page 41.

Appendix D. Supplied Sample Packages

This appendix has tables showing all the sample packages provided with RSCS FL540, what each file is for, and what disk they are installed on.

D.1 Samples for Configuring RSCS and Data Interchange Manager

Data Interchange Manager uses RSCS exit points 0, 21, and 24. The following table shows sample files installed on the 5VMRSC40's 406 disk used to configure and operate RSCS and Data Interchange Manager.

<i>Figure 10 (Page 1 of 2). RSCS Supplied Sample Files</i>		
Sample File Name	Disk Installed to	Sample Description
ACHARSCS CONFSAMP	406	Sample RSCS configuration file for XCHANGE, use as ACHARSCS CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
RSCS CONFSAMP	406	Sample RSCS configuration file, use as RSCS CONFIG on the 5VMRSC40 401 disk.
RSCSAUTH CONFSAMP	406	Sample RSCSAUTH configuration file, use as RSCSAUTH CONFIG on the 5VMRSC40 403 disk.
XCHANGE CONFSAMP	406	Sample XCHANGE configuration file, use as XCHANGE CONFIG on the 5VMRSC40 403 disk.
PROFILE GCSSAMP	406	Sample PROFILE GCS file for the RSCS virtual machine, use as PROFILE GCS on the 5VMRSC40 401 disk.
PROFILE EXEC SAMP	406	Sample PROFILE EXEC file for the XCHANGE virtual machine, use as PROFILE EXEC on the 5VMRSC40 403 disk.
RSCSAUTH EXEC SAMP	406	Sample PROFILE EXEC file for the RSCSAUTH virtual machine, use as PROFILE EXEC on the RSCSAUTH 191 disk.
ACHAFAIL TEMPSAMP	406	Sample XCHANGE failure template, use as ACHAFAIL TEMPLATE on the 5VMRSC40 403 disk.
NOTHERE TEMPSAMP	406	Sample RSCS unknown user ID template, use as NOTHERE TEMPLATE on the 5VMRSC40 401 disk.
UNKNOWN TEMPSAMP	406	Sample RSCS unknown node ID template, use as UNKNOWN TEMPLATE on the 5VMRSC40 401 disk.
RSCSTAB ASSEMBLE	406	Sample VTAM MODE tables for the RSCS virtual machine.
RSCSTAB TEXT	406	Assembled version.
RSCSTAB LKEDCTRL	406	Used to build LOADLIB for use by VTAM.
RSCSNET VTAMLST	406	Sample VTAM definitions for the RSCS application.
LKEDCHK EXEC	406	Exec to check a LKEDIT file for any error messages.
DMTVMEX CNTRL	406	Control file for the sample exits.

Figure 10 (Page 2 of 2). RSCS Supplied Sample Files

Sample File Name	Disk Installed to	Sample Description
PPS EXEC	406	This exec is intended to be used to send postscript files to RSCS links using either the LPR driver with the LPRXPSE exit module or the TCPASCII or ASCII drivers using the ASCXPSE exit module.
PPS XEDIT	406	This XEDIT macro is intended to be used to send postscript files from within the XEDIT environment to RSCS links using either the LPR driver with the LPRXPSE exit module or the TCPASCII or ASCII drivers using the ASCXPSE exit module.

D.2 Planning and Install Configuration Files

The following table shows sample configuration files installed on the 5VMRSC40's 406 disk which match the configuration examples in Appendix B of the *z/VM: RSCS Networking Planning and Configuration* book.

Figure 11. RSCS Supplied Sample Files

Sample File Name	Disk Installed to	Sample Description
ITRACE CONFSAMP	406	Sample ITRACE entries, use as ITRACE CONFIG on the 5VMRSC40 401 disk.
EXITS CONFSAMP	406	Sample EXIT entries, use as EXITS CONFIG on the 5VMRSC40 401 disk.
AUTHS CONFSAMP	406	Sample AUTH statement entries, use as AUTHS CONFIG on the 5VMRSC40 401 disk.
TRAILER CONFSAMP	406	Statements to be placed after link and node specifications, use as TRAILER CONFIG on the 5VMRSC40 401 disk.
ROUTES CONFSAMP	406	Sample ROUTE statements, use as ROUTES CONFIG on the 5VMRSC40 401 disk.
DEST CONFSAMP	406	Sample DEST statements, use as DEST CONFIG on the 5VMRSC40 401 disk.
RSCSSMPL CONFSAMP	406	Sample MASTER configuration file which contains IMBEDs for the other configuration files in this table, among other things. Use as RSCS CONFIG on the 5VMRSC40 401 disk.
PRINTERS CONFSAMP	406	Sample LINKDEFINE and PARMS for printers links, use as PRINTERS CONFIG on the 5VMRSC40 401 disk.
NETLINKS CONFSAMP	406	Sample LINKDEFINE and PARMS for networking links, use as NETLINKS CONFIG on the 5VMRSC40 401 disk.
FRONT CONFSAMP	406	Statements to be placed before link definitions, use as FRONT CONFIG on the 5VMRSC40 401 disk.

D.3 Command Response Interface (CRI) Package

The following table shows the files included with the RSCS CRI package.

Figure 12. CRI Package

Sample File Name	Disk Installed to	Sample Description
CRIPARSE EXEC	406	This exec can be imbedded in another exec to separate the fields in a single line of an RSCS CRI response.
CRITEST EXEC	406	This exec allows you to issue a command to an RSCS system, trap the response and then write it out to the terminal.
CRITRAP EXEC	406	This exec can be imbedded in another exec to trap synchronous responses to queries and other synchronous RSCS commands.

D.4 Gateway Program Interface Link Driver (GPSAMP) Package

The following table shows the files included with the GPSAMP Link Driver package.

Figure 13. GPSAMP Package

Sample File Name	Disk Installed to	Sample Description.
GPSAMP OVERVIEW	406	Description of the sample gateway program interface package.
GPSAMP ASSEMBLE	2B3	Mainline routine of sample gateway program.
GPSAMP TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GPSBLK ASSEMBLE	2B3	IUCV communications utilities for use with the GPSAMP package.
GPSBLK TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GPSREC ASSEMBLE	2B3	NJE Gateway interface to Gateway Sample Record Interface.
GPSREC TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GPSMSG MSGS	2B3	Message repository for sample GPSAMP package.
GPSMSG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
GPSMGC MCONV	2B3	Message conversion repository for sample GPSAMP package.
GPSMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
GPIUCV MACRO	2B2	Macro for use with GPSAMP package, built into DMTMACEX MACLIB.
GPLISTB MACRO	2B2	Macro for use with GPSAMP package, built into DMTMACEX MACLIB.
GPLISTR MACRO	2B2	Macro for use with GPSAMP package, built into DMTMACEX MACLIB.

D.5 Gateway Security Modifications (GSM) Exit Package

The GSM package uses RSCS exit points 0, 1, 14, 15, 19, 21, 29, and 32. The following table shows the files included with the GSM exit package.

Figure 14 (Page 1 of 2). GSM Package

Sample File Name	Disk Installed to	Sample Description
GSM31 SCRIPT	406	Description of the Gateway Security Modifications exit package.
GSM CONFSAMP	406	Sample RSCS configuration file, use as GSM CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
CONFIG EXEC	406	This exec converts a security direct file into a security configuration file. Output should go to the 5VMRSC40 401 disk.
TSORT MODULE	406	Used by the CONFIG EXEC.
SECURITY SAMPDIR	406	Use as SECURITY DIRECT on the 5VMRSC40 406 disk. This file is input to the CONFIG EXEC which creates the SECURITY CONFIG file.
GSMCOM ASSEMBLE	2B3	Common task services subroutines for GSM package.
GSMCOM TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSMQSA ASSEMBLE	2B3	Queue-based storage allocation for GSM package.
GSMQSA TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSMSEC ASSEMBLE	2B3	Security checking interface routines for GSM package.
GSMSEC TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSM000 ASSEMBLE	2B3	GSM initialization routine for GSM package.
GSM000 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSM001 ASSEMBLE	2B3	User exit 1 for GSM package.
GSM001 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSM014 ASSEMBLE	2B3	SYSIN files security checker for GSM package.
GSM014 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSM015 ASSEMBLE	2B3	SYSOUT files security checker for GSM package.
GSM015 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSM019 ASSEMBLE	2B3	Command security checker for GSM package.
GSM019 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSM021 ASSEMBLE	2B3	Local files security checker for GSM package.
GSM021 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSM029 ASSEMBLE	2B3	Command executor and syntax catcher for GSM package.
GSM029 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSM032 ASSEMBLE	2B3	Remote command and message security checker for GSM package.
GSM032 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
GSMMSG MSGS	2B3	Message repository for GSM package.
GSMMSG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
GSMMSGC MCONV	2B3	Message conversion repository for GSM package.
GSMMSGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
EXITWA MACRO	2B2	Macro for use with GSM package, built into DMTMACEX MACLIB.
ACCNTGSM MACRO	2B2	Macro for use with GSM package, built into DMTMACEX MACLIB.

Figure 14 (Page 2 of 2). GSM Package

Sample File Name	Disk Installed to	Sample Description
GSMCVT MACRO	2B2	Macro for use with GSM package, built into DMTMACEX MACLIB.
SECRMAP MACRO	2B2	Macro for use with GSM package, built into DMTMACEX MACLIB.
SECENT MACRO	2B2	Macro for use with GSM package, built into DMTMACEX MACLIB.
SECWA MACRO	2B2	Macro for use with GSM package, built into DMTMACEX MACLIB.

D.6 Spool Manager Command Echoing (SAC) Exit Package

The SAC package uses RSCS exit points 24, 25, and 29. The following table shows the files included with the SAC exit package.

Figure 15. SAC Package

Sample File Name	Disk Installed to	Sample Description
SAC OVERVIEW	406	Description of the spool manager command echoing exit package.
SAC CONFSAMP	406	Sample RSCS configuration file, use as SAC CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SACPCM ASSEMBLE	2B3	Diagnostic routines for SAC package.
SACPCM TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SACENG MSGS	2B3	Message repository for SAC package.
SACENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SACMGC MCONV	2B3	Message conversion repository for SAC package.
SACMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.7 Simple Accounting (SAS) Exit Package

The SAS package uses RSCS exit points 2, 3, 4, and 5. The following table shows the files included with the SAS exit package.

Figure 16 (Page 1 of 2). SAS Package

Sample File Name	Disk Installed to	Sample Description
SAS OVERVIEW	406	Description of the simple accounting exit package.
SAS CONFSAMP	406	Sample RSCS configuration file, use as SAS CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SASPOL ASSEMBLE	2B3	Write accounting records to message link for SAS package.

<i>Figure 16 (Page 2 of 2). SAS Package</i>		
Sample File Name	Disk Installed to	Sample Description
SASPOL TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.

D.8 Back-To-Back (SBK) Exit Package

The SBK package uses RSCS exit points 0, 21, and 24. The following table shows the files included with the SBK exit package.

<i>Figure 17. SBK Package</i>		
Sample File Name	Disk Installed to	Sample Description
SBK OVERVIEW	406	Description of the the back-to-back exit package.
SBK CONFSAMP	406	Sample RSCS configuration file, use as SBK CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SBKBAK ASSEMBLE	2B3	Implements a general back-to-back RSCS configuration for SBK package.
SBKBAK TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SBKENG MSGS	2B3	Message repository for SBK package.
SBKENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SBKMGC MCONV	2B3	Message conversion repository for SBK package.
SBKMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.9 Secondary RSCS List Processor Bursting Machine (SBURST) Exit Package

The SBURST package uses RSCS exit points 0, 1, 19, 21, and 24. The following table shows the files included with the SBURST exit package.

<i>Figure 18 (Page 1 of 2). SBURST Package</i>		
Sample File Name	Disk Installed to	Sample Description
SBURST OVERVIEW	406	Description of the secondary RSCS list processor bursting machine exit package.
SBURST CONFSAMP	406	Sample RSCS configuration file, use as SBURST CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SBURST ASSEMBLE	2B3	Generates TBURSTER control block or mapping DSECT for SBURST package.
SBURST TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SBUENG MSGS	2B3	Message repository for SBURST package.

Figure 18 (Page 2 of 2). SBURST Package

Sample File Name	Disk Installed to	Sample Description
SBUENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SBUMGC MCONV	2B3	Message conversion repository for SBURST package.
SBUMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.10 Secondary File Filter (SFF) Exit Package

The SFF package uses RSCS exit points 0, 1, 15, 21, and 29. The following table shows the files included with the SFF exit package.

Figure 19 (Page 1 of 2). SFF Package

Sample File Name	Disk Installed to	Sample Description
SFF OVERVIEW	406	Description of the selective file filter exit package.
SFF CONFSAMP	406	Sample configuration file for the SFF exit, use as SFF CONFIG on the 5VMRSC40 401 disk.
SFFCONF CONFSAMP	406	Sample RSCS configuration file, use as SFFCONF CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SFFPROT ASSEMBLE	2B3	Initialization prototype image module for SFF package.
SFFPROT TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SFF000 ASSEMBLE	2B3	Initialization processing exit for SFF package.
SFF000 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SFF001 ASSEMBLE	2B3	Terminate exit for SFF package.
SFF001 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SFF015 ASSEMBLE	2B3	Table lookup exit for SFF package.
SFF015 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SFF021 ASSEMBLE	2B3	Table lookup exit for SFF package.
SFF021 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SFF029 ASSEMBLE	2B3	Command processing exits for SFF package.
SFF029 TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SFFMSG MSGS	2B3	Message repository for SFF package.
SFFMSG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SFFMGC MCONV	2B3	Message conversion repository for SFF package.
SFFMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SFFCAL MACRO	2B2	Macro for use with SFF package, built into DMTMACEX MACLIB.
SFFENT MACRO	2B2	Macro for use with SFF package, built into DMTMACEX MACLIB.

Figure 19 (Page 2 of 2). SFF Package

Sample File Name	Disk Installed to	Sample Description
SFFHDR MACRO	2B2	Macro for use with SFF package, built into DMTMACEX MACLIB.
SFFMSG MACRO	2B2	Macro for use with SFF package, built into DMTMACEX MACLIB.
SFFPUR MACRO	2B2	Macro for use with SFF package, built into DMTMACEX MACLIB.

D.11 Shift-Based File Limiting (SFL) Exit Package

The SFL package uses RSCS exit points 0, 1, 31, and 33. The following table shows the files included with the SFL exit package.

Figure 20. SFL Package

Sample File Name	Disk Installed to	Sample Description
SFL OVERVIEW	406	Description of the shift-based file limiting exit package.
SFL CONFSAMP	406	Sample RSCS configuration file, use as SFL CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SFLIMIT ASSEMBLE	2B3	File limiting on shift basis for SFL package.
SFLIMIT TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SFLENG MSGS	2B3	Message repository for SFL package.
SFLENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SFLMGC MCONV	2B3	Message conversion repository for SFL package.
SFLMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.12 Console Logging/Screening (SMG) Exit Package

The SMG package uses RSCS exit points 0, and 27. The following table shows the files included with the SMG exit package.

Figure 21. SMG Package

Sample File Name	Disk Installed to	Sample Description
SMG OVERVIEW	406	Description of the console logging/screening exit package.
SMG CONFSAMP	406	Sample RSCS configuration file, use as SMG CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SMGMON ASSEMBLE	2B3	Initialization exit to define logging link and start it for SMG package.
SMGMON TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.

D.13 Messenger Link Driver (SMS) Exit Package

The following table shows the files included with the SMS exit package.

Figure 22. SMS Package

Sample File Name	Disk Installed to	Sample Description
SMS OVERVIEW	406	Description of the messenger link driver exit package.
SMS CONFSAMP	406	Sample RSCS configuration file, use as SMS CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SMSDRV ASSEMBLE	2B3	Messenger line driver main entry point for SMS package.
SMSDRV TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SMSENG MSGS	2B3	Message repository for SMS package.
SMSENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SMSMGC MCONV	2B3	Message conversion repository for SMS package.
SMSMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.14 Note Selection/Modification (SNM) Exit Package

The SNM package uses RSCS exit points 22, and 23. The following table shows the files included with the SNM exit package.

Figure 23. SNM Package

Sample File Name	Disk Installed to	Sample Description
SNM OVERVIEW	406	Description of the note selection / modification exit package.
SNM CONFSAMP	406	Sample RSCS configuration file, use as SNM CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SNMODI ASSEMBLE	2B3	Main entry point for SNM package.
SNMODI TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.

D.15 Notify Driver Purge (SNS) Exit Package

The SNS package uses RSCS exit point 36. The following table shows the files included with the SNS exit package.

<i>Figure 24. SNS Package</i>		
Sample File Name	Disk Installed to	Sample Description
SNS OVERVIEW	406	Description of the notify driver purge exit package.
SNS CONFSAMP	406	Sample RSCS configuration file, use as SNS CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SNSAVE ASSEMBLE	2B3	Main entry point for SNS package.
SNSAVE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.

D.16 Pathalias Map Processing and PAPATH Command (SPA) Exit Package

The SPA package uses RSCS exit points 0, and 29. The following table shows the files included with the SPA exit package.

<i>Figure 25. SPA Package</i>		
Sample File Name	Disk Installed to	Sample Description
SPA OVERVIEW	406	Description of the pathalias map processing and PAPATH command exit package.
SPA CONFSAMP	406	Sample RSCS configuration file, use as SPA CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SPATHA ASSEMBLE	2B3	PAlthalias maps treated as RSCS ROUTE table for SPA package.
SPATHA TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SPAENG MSGS	2B3	Message repository for SPA package.
SPAENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SPAMGC MCONV	2B3	Message conversion repository for SPA package.
SPAMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.17 File Queue Aging (SQA) Exit Package

The SQA package uses RSCS exit points 0, 1, 3, 26, 31, 33, and 34. The following table shows the files included with the SQA exit package.

<i>Figure 26 (Page 1 of 2). SQA Package</i>		
Sample File Name	Disk Installed to	Sample Description
SQA OVERVIEW	406	Description of the file queue aging exit package.

Figure 26 (Page 2 of 2). SQA Package

Sample File Name	Disk Installed to	Sample Description
SQA CONFSAMP	406	Sample RSCS configuration file, use as SQA CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SQA PARMSAMP	406	A sample queue aging parms file, read at RSCS initialization time. Use as SQA PARMS on the 5VMRSC40 406 disk.
SQACSC EXEC	406	Takes a sample tabulated functions file (SQAXMP TABLE) for a descent curve named AGEFUNC and an ascent curve named FILEFUNC and creates the cubic spline coefficients (SQAXMP) ASSEMBLE file.
SQAXMP SAMPTABL	406	Is a sample tabulated functions file for a descent curve named AGEFUNC and an ascent curve named FILEFUNC. Use as SQAXMP TABLE on the 5VMRSC40 401 disk.
SQAFQA ASSEMBLE	2B3	Main entry point for SQA package.
SQAFQA TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SQAXMP ASSEMBLE	2B3	Created by running the SQACSC EXEC.
SQAXMP TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SQAENG MSGS	2B3	Message repository for SQA package.
SQAENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SQAMGC MCONV	2B3	Message conversion repository for SQA package.
SQAMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.18 REMOVE Command (SRMVEX) Exit Package

The SRMVEX package uses RSCS exit points 21, and 29. The following table shows the files included with the SRMVEX exit package.

Figure 27. SRMVEX Package

Sample File Name	Disk Installed to	Sample Description
SRMVEX OVERVIEW	406	Description of the REMOVE Command exit package.
SRMVEX CONFSAMP	406	Sample RSCS configuration file, use as SRMVEX CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SRMVEX ASSEMBLE	2B3	Selective transfer of file to a parking user ID for SRMVEX package.
SRMVEX TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SRMENG MSGS	2B3	Message repository for SRMVEX package.
SRMENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SRMMGC MCONV	2B3	Message conversion repository for SRMVEX package.
SRMMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.19 SHOW and PATH Command (SSH) Exit Package

The SSH package uses RSCS exit point 29. The following table shows the files included with the SSH exit package.

Figure 28. SSH Package

Sample File Name	Disk Installed to	Sample Description
SSH OVERVIEW	406	Description of the SHOW and PATH command exit package.
SSH CONFSAMP	406	Sample RSCS configuration file, use as SSH CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SSHPTH ASSEMBLE	2B3	Command processor for SHOW and PATH commands for SSH package.
SSHPTH TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SSHENG MSGS	2B3	Message repository for SSH package.
SSHENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SSHMGC MCONV	2B3	Message conversion repository for SSH package.
SSHMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.20 Single System Image Systems (SSI) Exit Package

The SSI package uses RSCS exit point 0. The following table shows the files included with the set GMT offset for SSI exit package.

Figure 29. SSI Package

Sample File Name	Disk Installed to	Sample Description
SSI OVERVIEW	406	Description of the set GMT offset for single system image systems exit package.
SSI CONFSAMP	406	Sample RSCS configuration file, use as SSI CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SSIGMT ASSEMBLE	2B3	GMT offset correction for SSI package.
SSIGMT TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SSIENG MSGS	2B3	Message repository for SSI package.
SSIENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SSIMGC MCONV	2B3	Message conversion repository for SSI package.
SSIMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.21 Separator Page (SSP) Exit Package

The SSP package uses RSCS exit points 17, and 18. The following table shows the files included with the SSP exit package.

Figure 30. SSP Package

Sample File Name	Disk Installed to	Sample Description
SSP OVERVIEW	406	Description of the separator page exit package.
SSP CONFSAMP	406	Sample RSCS configuration file, use as SSP CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SSPAGE ASSEMBLE	2B3	Generate separator pages for SSP package.
SSPAGE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.

D.22 Simple Security (SSS) Exit Package

The SSS package uses RSCS exit points 0, 1, 14, 15, 19, 21 and 32. The following table shows the files included with the SSS exit package.

Figure 31. SSS Package

Sample File Name	Disk Installed to	Sample Description
SSS OVERVIEW	406	Description of the simple security exit package.
SECURE CONFSAMP	406	Sample configuration file for the SSS exit, use as SECURE CONFIG on the 5VMRSC40 401 disk.
SSS CONFSAMP	406	Sample RSCS configuration file, use as SSS CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SSSECU ASSEMBLE	2B3	Handles all necessary virtual printer functions for SSS package.
SSSECU TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SSSENG MSGS	2B3	Message repository for SSS package.
SSSENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SSSMGC MCONV	2B3	Message conversion repository for SSS package.
SSSMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.23 Statistics-Gathering (SST) Exit Package

The SST package uses RSCS exit points 0, 3, and 21. The following table shows the files included with the SST exit package.

Figure 32 (Page 1 of 2). SST Package

Sample File Name	Disk Installed to	Sample Description
SST OVERVIEW	406	Description of the statistics-gathering exit package.

Figure 32 (Page 2 of 2). SST Package

Sample File Name	Disk Installed to	Sample Description
SST CONFSAMP	406	Sample RSCS configuration file, use as SST CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SSTATS ASSEMBLE	2B3	Gather statistics for SST package.
SSTATS TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SSTENG MSGS	2B3	Message repository for SST package.
SSTENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SSTMGC MCONV	2B3	Message conversion repository for SST package.
SSTMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.24 Host Transfer Agent Link Driver (STR) Exit Package

The following table shows the files included with the STR exit package.

Figure 33. STR Package

Sample File Name	Disk Installed to	Sample Description
STR OVERVIEW	406	Description of the host transfer agent link driver exit package.
STR CONFSAMP	406	Sample RSCS configuration file, use as STR CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
STRDRV ASSEMBLE	2B3	Host transfer agent (sample transfer) for STR package.
STRDRV TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
STRENG MSGS	2B3	Message repository for STR package.
STRENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
STRMGC MCONV	2B3	Message conversion repository for STR package.
STRMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.25 Sample TYPE Command (STY) Exit Package

The STY package uses RSCS exit point 29. The following table shows the files included with the STY command exit package.

Figure 34 (Page 1 of 2). STY Package

Sample File Name	Disk Installed to	Sample Description
STY OVERVIEW	406	Description of the sample TYPE command exit package.

Figure 34 (Page 2 of 2). STY Package

Sample File Name	Disk Installed to	Sample Description
STY CONFSAMP	406	Sample RSCS configuration file, use as STY CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
STYPCM ASSEMBLE	2B3	Simulate the CMS TYPE command for STY package.
STYPCM TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
STYENG MSGS	2B3	Message repository for STY package.
STYENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
STYMG MCONV	2B3	Message conversion repository for STY package.
STYMG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.26 Virtual Printer Link Driver (SVP) Exit Package

The following table shows the files included with the SVP exit package.

Figure 35. SVP Package

Sample File Name	Disk Installed to	Sample Description
SVP OVERVIEW	406	Description of the virtual printer link driver exit package.
SVP CONFSAMP	406	Sample RSCS configuration file, use as SVP CONFIG on the 5VMRSC40 401 disk imbedded in RSCS CONFIG.
SVPDRV ASSEMBLE	2B3	Virtual printer driver for SVP package.
SVPDRV TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB.
SVPENG MSGS	2B3	Message repository for SVP package.
SVPENG TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.
SVPMGC MCONV	2B3	Message conversion repository for SVP package.
SVPMGC TEXT	2B2	Compiled version, built into RSCSEXIT LOADLIB.

D.27 SENDLIST Package

The following table shows the files included with the SENDLIST package, which can be used to send files or notes using the RSCS list processor facility.

Figure 36 (Page 1 of 2). SENDLIST Package

Sample File Name	Disk Installed to	Sample Description
SENDLIST PACKAGE	406	List of files included with package.

Figure 36 (Page 2 of 2). SENDLIST Package

Sample File Name	Disk Installed to	Sample Description
SENDLIST EXEC	406	Exec used to send files or notes via an RSCS list processor for SENDLIST package.
SENDLIST HELPCMS	29D	Online documentation for package.
X\$SNDL\$X XEDIT	406	Macro to display file selection screen for SENDLIST package.

D.28 SPOOLAID Package

The following table shows the files included with the SPOOLAID package, which can be used to browse spool file internals.

Figure 37. SPOOLAID Package

Sample File Name	Disk Installed to	Sample Description
SPOOLAID PACKAGE	406	List of files included with package.
SPOOLAID ANNOUNCE	406	Introduction and description of package.
SA EXEC	406	Exec used to invoke SPOOLAID.
SAELOG EXEC	406	Error logging exec for SPOOLAID package.
SA HELPCMS	29D	Online documentation for the SA command.
SASFB HELPSA	29D	Online documentation for the SFBLOK display.
SASPLINK HELPSA	29D	Online documentation for the SPLINK display.
SAXAB HELPSA	29D	Online documentation for the XAB display.
SADUMPER ASSEMBLE	2B3	Base source file for doing viewing spool file internals.
DUMPSUB ASSEMBLE	2B3	Internal subroutine called by SADUMPER.
SADUMPER MODULE	406	Usable version of assemble files.
SPOOLAID SAMPPROF	406	Sample SPOOLAID PROFILE for altering defaults, use as SPOOLAID PROFILE on the 5VMRSC40 406 disk.
SACMDS XEDIT	406	Screen manager maro for SPOOLAID package.

D.29 ASCII Printer and Plotter (ASCII) Exit Package

The following table shows the files included with the ASCII exit package.

Note: The exit entry name (used on the `EXIT=name` parameter when defining an ASCII type link) is not the same as the exit package name. See the highlighted entry name.

Figure 38. ASCII Package

Sample File Name	Disk Installed to	Sample Description
ASCXDSOE ASSEMBLE	2B3	Support of the Datasouth DS180 matrix printer for ASCII package.
ASCXDSOE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name DSOE.
ASCXDWRE ASSEMBLE	2B3	Support of the the LA120 Decwriter printer for ASCII package.
ASCXDWRE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name DWRE.
ASCXPROP ASSEMBLE	2B3	Support of the IBM PROprinter for ASCII package.
ASCXPROP TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name PROP.
ASCXSPWE ASSEMBLE	2B3	Support of the NEC 3515 Spinwriter printer for ASCII package.
ASCXSPWE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name SPWE.
ASCXZZET ASSEMBLE	2B3	Support of the Nicolet ZETA 3653SX drum plotter for ASCII package.
ASCXZZET TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name ZZET.
ASCX749E ASSEMBLE	2B3	Support of the IBM instruments XY/749 multipen digital plotter for ASCII package.
ASCX749E TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name 749E.
ASCXONE ASSEMBLE	2B6	Support of a reentrant exit module supporting non-postscript printers only.
ASCXONE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name ASCXONE.
ASCXPSE ASSEMBLE	2B3	Support of a reentrant exit module supporting a postscript only printer for ASCII package.
ASCXPSE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name ASCXPSE.

D.30 LPR Exit Package

The following table shows the files included with the LPR Printer driver exit package.

Figure 39. LPR Package

Sample File Name	Disk Installed to	Sample Description
LPRXONE ASSEMBLE	2B3	Support of a reentrant LPR exit module supporting non-postscript printers only.
LPRXONE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name LPRXONE.
LPRXPSE ASSEMBLE	2B3	Support of a reentrant LPR exit module supporting postscript only printers.
LPRXPSE TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name LPRXPSE.
LPRXFORM ASSEMBLE	2B6	Support of a reentrant exit module which contains exit 0 and exit 1 entry points to build form block tables for use with LPR-type links. These tables supply overrides, selected with the form name the file was spooled with, to LPR-type defined links.
LPRXFORM TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry names LPRXFM00 and LPRXFM01.

D.31 LPD Exit Package

The following table shows the files included with the LPD link driver exit package.

Figure 40. LPD Package

Sample File Name	Disk Installed to	Sample Description
LPDXMANY ASSEMBLE	2B6	Supports a single LPD printer queue. Multiple LPD link drivers can be defined and started using this exit module.
LPDXMANY TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name LPDXMANY.

D.32 UFT Exit Package

The following table shows the files included with the UFT support exit package.

Figure 41. UFT Support Exit Package

Sample File Name	Disk Installed to	Sample Description
UFTXOUT ASSEMBLE	2B6	Support of a reentrant UFT exit module to support transmitting one file to a remote UFT daemon at a time.
UFTXOUT TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name UFTXOUT.
UFTXIN ASSEMBLE	2B6	Support of a reentrant UFTD exit module to support a single RSCS UFT daemon. Multiple UFTD link drivers can be defined and started using this exit module.
UFTXIN TEXT	2B2	Assembled version, built into RSCSEXIT LOADLIB with entry name UFTXIN.

Appendix E. Moving RSCS to SFS Directories and Creating a PPF Override

By default, RSCS Networking for z/VM is installed to minidisks as part of the z/VM System deliverable unless you choose to install RSCS to SFS during the initial z/VM installation. If you did not install RSCS into SFS directories and want to move it now, you can. Refer to Figure 6 on page 14 to see which minidisks can reside in SFS. You can use either the default file pool, VMSYS, or a file pool of your choosing.

A summary of the steps that are needed to place RSCS into SFS are:

- Allocate space in the user-defined or default file pool
- Provide the installation user ID, 5VMRSC40, access to the file pool
- Create the necessary RSCS subdirectories
- Copy files from the minidisks to the new SFS subdirectories
- Create a PPF override, if not using the default file pool or subdirectory names.

Where to next

You need to do one of the following:

- If you want to place RSCS into SFS directories **using the defaults defined in the 5VMRSC40 PPF file** you should use the **MOVE2SFS** command, as documented in the *z/VM: CP Commands and Utilities Reference* manual.
- If you want to place RSCS into your **own user-defined file pool or SFS directories**, continue with the instructions in E.1, "Setup SFS File Pool and Directories" on page 97.
- If you **only need to create a PPF override**, continue with the instructions in E.3, "Create Product Parameter File (PPF) Override" on page 100.

If you were pointed to this appendix from another section and you have completed the steps required (whether provided in this appendix or in the *z/VM: CP Commands and Utilities Reference*), you should now return to your original section to continue.

E.1 Setup SFS File Pool and Directories

Notes:

1. The steps that follow help you determine the RSCS file pool space requirements, file pool enrollment, and SFS directory definitions. If not all of these steps are required - for example, if you are changing only SFS directory or subdirectory names - adapt these instructions as needed for your environment.
2. The steps that follow assume that a user-defined SFS file pool name is being used. If you will be using the VM default file pool name, VMSYS, substitute it in any place you see the text 'user-defined file pool' or variable *userfilepool*.
3. For more information about planning for, generating and managing a file pool and server, see *z/VM: CMS File Pool Planning, Administration and Operation*.

- 1** Determine the number of 4k blocks that are required for the SFS directories, for each user ID, by adding up the 4K blocks required for each SFS directory you plan to use.

If you intend to use all of the default RSCS SFS directories, the 4K block requirements for each directory are summarized in Figure 6 on page 14.

This information will be used when the 5VMRSC40 and XCHANGE user IDs are enrolled in the user-defined file pool.

- 2** Enroll users 5VMRSC40 and XCHANGE in the user-defined file pool using the ENROLL USER command:

```
ENROLL USER 5VMRSC40 userfilepool: (BLOCKS blocks)  
ENROLL USER XCHANGE userfilepool: (BLOCKS blocks)
```

where *blocks* is the number of 4k blocks that you calculated in the previous step.

Note: This must be done from a user ID that is an administrator for the user-defined file pool.

- 3** Determine if there are enough blocks available in the file pool to install RSCS. This information can be obtained from the QUERY FILEPOOL STORGRP command. The output from this command is a list of storage groups and the number of 4K blocks free. If the number of blocks free is smaller than the total 4K blocks needed (refer to Figure 6 on page 14 to obtain total blocks needed) to install RSCS you need to add space to the file pool. See *z/VM: CMS File Pool Planning, Administration, and Operation* manual for information on adding space to a file pool.

- 4 Create the necessary subdirectories using the CREATE DIRECTORY command.

Note: All of the RSCS subdirectories are shown in the create directory commands. If you are not planning to create all of them, then just enter the commands for the ones you are planning to create.

A complete list of default RSCS SFS directories is provided in Figure 6 on page 14.

If you have changed any of the default SFS directory names then use your new name in place of the old name in the create directory command.

```
set filepool userfilepool:  
create directory userfilepool:5VMRSC40.RSCS  
create directory userfilepool:5VMRSC40.RSCS.object  
create directory userfilepool:5VMRSC40.RSCS.source  
create directory userfilepool:5VMRSC40.RSCS.localsam  
create directory userfilepool:5VMRSC40.RSCS.delta  
create directory userfilepool:5VMRSC40.RSCS.applyalt  
create directory userfilepool:5VMRSC40.RSCS.applyprod  
create directory userfilepool:5VMRSC40.RSCS.help  
create directory userfilepool:5VMRSC40.RSCS.uhelp  
create directory userfilepool:5VMRSC40.RSCS.xctest  
create directory userfilepool:5VMRSC40.RSCS.package  
create directory userfilepool:XCHANGE.log
```

If necessary, see the *z/VM: CMS Commands and Utilities Reference* manual for more information about the CREATE DIRECTORY command.

- 5 Give the 5VMRSC40 and RSCS server machines authority to the directories they need to be able to access.

```
grant auth userfilepool:5VMRSC40.RSCS.xctest to RSCSAUTH (read newread  
grant auth userfilepool:5VMRSC40.RSCS.xctest to RSCSDNS (read newread  
grant auth userfilepool:5VMRSC40.RSCS.xctest to XCHANGE (read newread  
grant auth userfilepool:5VMRSC40.XCHANGE. to RSCSAUTH (read newread  
grant auth userfilepool:5VMRSC40.XCHANGE. to RSCSDNS (read newread  
grant auth userfilepool:5VMRSC40.XCHANGE. to 5VMRSC40 (write newwrite  
grant auth userfilepool:5VMRSC40.XCHANGE.log to 5VMRSC40 (write newwrite
```

If necessary, see the *z/VM: CMS Commands and Utilities Reference* manual for more information about the GRANT AUTHORITY command.

- 6** If you intend to use an SFS directory as the work space for the 5VMRSC40 user ID, update the IPL control statement in the 5VMRSC40 CP user directory entry to look like:

```
IPL CMS PARM FILEPOOL userfilepool
```

If you intend to use an SFS directory as the work space for the XCHANGE user ID, update the IPL control statement in the XCHANGE CP user directory entry to look like:

```
IPL CMS PARM AUTOLOG FILEPOOL userfilepool
```

This will cause CMS to automatically access 5VMRSC40's and XCHANGE's top directory as file mode A. Refer to the *z/VM:CP Planning and Administration* for information on updating the CP user directory.

E.2 Copy Minidisk (or SFS) Files to SFS Directories

- 1** Copy the files from the RSCS minidisks (or from the VMSYS file pool if RSCS is already installed there) to your new user-defined SFS file pool and directories using the VMFCOPY command.

Note: Repeat the ACCESS and VMFCOPY commands, that follow, for each disk or SFS directory you need to copy. Refer to Figure 6 on page 14 for the default minidisk and SFS directory names for RSCS.

```
access vdev e
```

```
access dirid f
```

```
vmfcopy * * e = f (prodid 5VMRSC40%RSCS olddate replace
```

Where

- *vdev* is the minidisk you are copying files from. If you are copying from SFS then substitute the SFS directory name in place of *vdev*.
- *dirid* is the name of the (target) SFS directory that you are copying files to.
- 5VMRSC40%RSCS is the PROPID defined within the 5VMRSC40 PPF file for the minidisk and SFS RSCS components.

The VMFCOPY command will update the VMSES PARTCAT file on the target directory.

E.3 Create Product Parameter File (PPF) Override

This section provides information to help you create a product parameter file (PPF) override. The example used in this section is how to change the shared file system (SFS) file pool where RSCS files reside. Refer to the *VMSES/E Introduction and Reference* for more information on PPF overrides.

Note: Do **not** modify the product supplied 5VMRSC40 \$PPF or 5VMRSC40 PPF files to change the VMSYS file pool name or any other installation parameters. If the 5VMRSC40 \$PPF file is serviced, the existing \$PPF file will be replaced, and any changes to that file will be lost. By creating your own \$PPF override, your updates will be preserved.

The following process describes changing the default file pool name, "VMSYS" to "MYPOOL1":

- 1 Create a new \$PPF override file or edit an existing override file.

xedit *overname* \$PPF *fm2*

overname is the PPF override file name (such as "myRSCS") that you want to use.

fm is an appropriate file mode. If you create this file yourself, specify a file mode of A.

If you modify an existing override file, specify a file mode of A or D, based on where the file currently resides (A being the file mode of a R/W 191 minidisk, or equivalent; D, that of the MAINT 51D minidisk).

2 Create (or modify as required) the Variable Declarations (:DCL.) section for the RSCSSFS override area so that it resembles the :DCL. section as shown below.

Notes:

a. If you service by using the automated service commands, SERVICE, PUT2PROD and LOCALMOD, then you will want to make sure you create an override to the SERVP2P \$PPF for the RSCSSFS .and RSCSSFSP2P components. To do this you will follow the example below with the following changes:

- The OVERLST statement should be:
:OVERLST. RSCSSFS RSCSSFSP2P
- The :RSCSSFS statement should be:
:RSCSSFS. RSCSSFS SERVP2P
- Repeat the DCL update but change the :RSCSSFS to be
:RSCSSFSP2P. RSCSSFSP2P SERVP2P

```
:OVERLST. RSCSSFS
*
* ===== *
* Override Section for Initial Installation (Using SFS Directories) *
* ===== *
:RSCSSFS. RSCSSFS 5VMRSC40
:DCL. UPDATE
&INST191 DIR MYPPOOL1:5VMRSC40.
&BAS1Z DIR MYPPOOL1:5VMRSC40.RSCS.OBJECT
&BAS2Z DIR MYPPOOL1:5VMRSC40.RSCS.SOURCE
&SAMPZ DIR MYPPOOL1:5VMRSC40.RSCS.LOCALSAM
&DELTZ DIR MYPPOOL1:5VMRSC40.RSCS.DELTA
&APPLX DIR MYPPOOL1:5VMRSC40.RSCS.APPLYALT
&APPLZ DIR MYPPOOL1:5VMRSC40.RSCS.APPLYPROD
&BLD3Z DIR MYPPOOL1:5VMRSC40.RSCS.XCHTEST
&BLD2Z DIR MYPPOOL1:5VMRSC40.RSCS.HELP
&BLD2Z2 DIR MYPPOOL1:5VMRSC40.RSCS.UHELP
&BLD6Z DIR MYPPOOL1:5VMRSC40.RSCS.PACKAGE
&BLD4Z DIR MYPPOOL1:XCHANGE.
:EDCL.
:END.
*
```

This override will replace the :DCL. section of the RSCSSFS override area of the 5VMRSC40 \$PPF file.

- 3 If your \$PPF override file was created as file mode A, copy it to the Software Inventory minidisk (MAINT 51D). The default file mode is D.

file

copyfile *overname* \$PPF *fm* = = d (*olddate*)

- 4 Compile your changes to create the usable *overname* PPF file.

vmfppf *overname* *

where *overname* is the file name of your \$PPF override file.

Now that the *overname* PPF file has been created, you should specify *overname* instead of 5VMRSC40 as the PPF name to be used for any VMSES/E commands that require a PPF name.

If you service by using the automated service commands, e.g. SERVICE, PUT2PROD, you need to update the VM SYSSUF Software Inventory table. If you created a PPF override to the SERVP2P \$PPF file then you need to make sure that the override name you created is reflected in the PPF tags for RSCS in the VM SYSSUF table. You will use the new PPF override name with the RSCSSFS component name twice and the new PPF override name with the RSCSSFSP2P component name once in the change to the VM SYSSUF table. You can use the VMFUPDAT SYSSUF command to view and change the VM SYSSUF table PPF information.

Appendix F. Disabling RSCS

If you are running z/VM V5.4 and had previously licensed and enabled RSCS FL540 for use, and no longer are licensed for RSCS, you need to explicitly disable RSCS. Perform the following steps to disable RSCS.

1 Logon to a user ID that has privilege class E authority and has access to the VMSES/E code disk (default MAINT 5E5) and VMSES/E Software Inventory disk (default MAINT 51D).

2 Establish read access to VMSES/E code.

**link MAINT 5e5 5e5 rr
access 5e5 b**

The 5E5 minidisk is where VMSES/E resides.

3 If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user that has it accessed R/W link it R/O. You then can issue the following commands to obtain R/W access to it.

**link MAINT 51d 51d mr
access 51d d**

The 51D minidisk is where the VMSES/E Software Inventory files and other product dependent files reside.

4 Set RSCS to the disabled state.

service RSCS disable

This command will perform the following:

- Set RSCS as DISABLED in VMSES/E and within CP.
- Update the CP system configuration file (SYSTEM CONFIG) on the CP primary (default) parm disk.

5 Shutdown the RSCS servers. If you still require RSCS support for specific TCP/IP link drivers, then restart the RSCS servers running in a disabled state.

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