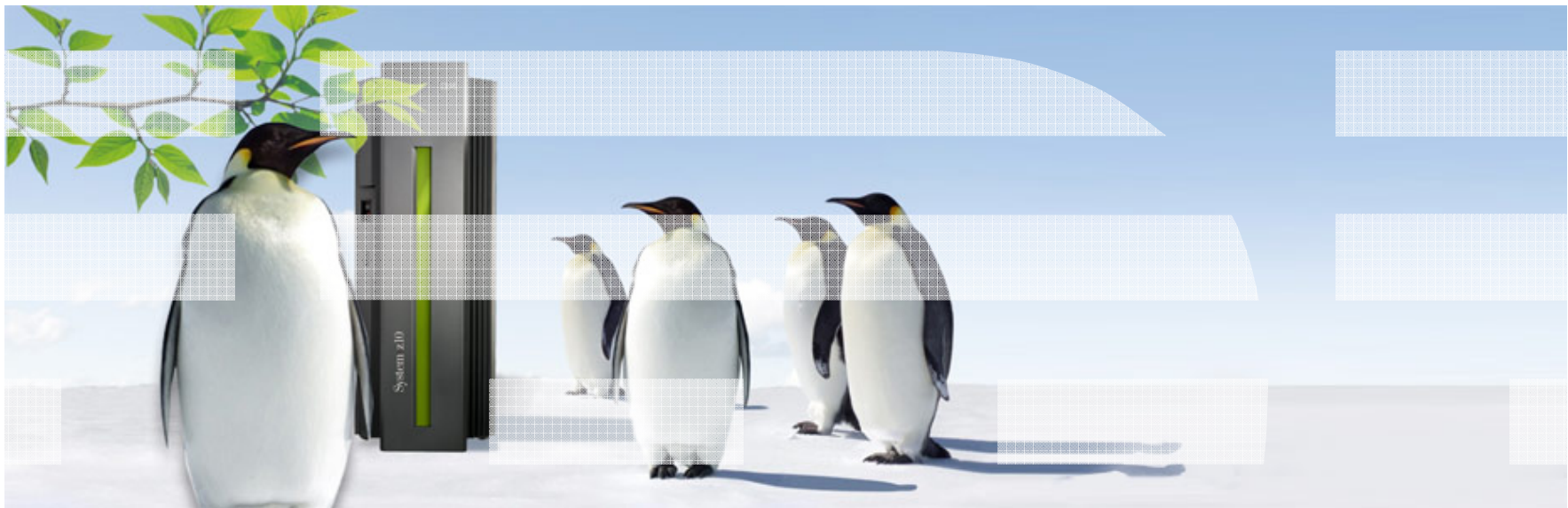


z/VM Order, Install and Service Overview

2010 Blooming Basics for z/VM & Linux on System z



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Performance is in Internal Throughput Rate (ITR) ratio based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput improvements equivalent to the performance ratios stated here.

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Topics

- **Ordering the z/VM Product Package**
 - ◆ Base Components
 - ◆ Priced Features
- **Installing z/VM**
 - ◆ 1st level or 2nd level
 - ◆ 3390 or SCSI
- **Enabling Features**
- **Servicing z/VM**
 - ◆ Corrective Service
 - ◆ Recommended Service Upgrade
 - ◆ Automated Tools
 - ◆ Additional Service Tasks
- **References**

Ordering the z/VM Product Package

■ How do I get z/VM?

- ◆ z/VM is ordered via the [System Delivery Offering \(SDO\)](#)
 - SDO is made up of:
 - z/VM pre-installed base components
 - pre-installed free and priced features
 - other IBM Licensed Products

■ How do I order the package?

- ◆ Call 1-888-SHOP IBM (746-7426)
- ◆ Use [IBM ShopzSeries](#) online

■ What choices do I have to make?

- ◆ Tape or DVD or electronic delivery
 - Tape: can only be installed to 3390 (CKD) DASD
 - DVD or Electronic: can be installed to 3390 or SCSI (FBA)
- ◆ Select priced features
 - DirMaint
 - RACF
 - Performance Toolkit
 - RSCS
- ◆ Other IBM products
 - See the SDO product lists for z/VM [V5 R4.0](#) and [V6 R1.0](#)

What do you get when you order “z/VM”?

- **Installation media – tape, DVD or electronic**
 - ◆ Pre-installed product and first recommended service (RSU)
- **Program Directories for pre-installed products and features**
 - ◆ z/VM base (CP, CMS, LE, VMSES/E, TCP/IP, etc.)
 - ◆ Priced features
 - DirMaint, RACF, RSCS, Performance Toolkit
 - ◆ Unpriced products
 - EREP, ICKDSF, OSA/SF, HCD/HCM
- **License document with Terms and Conditions**
- **“Guide for Automated Installation and Service”**
- **z/VM Publications DVD**
- **Other licensed products, if you ordered any, and all the stuff that comes with them**

IBM Software ShopzSeries - My current order - Shop for products - Products - 2010-06-17 18.00.33 - Mozilla Firefox: IBM Edition

File Edit View History Bookmarks Tools Help

ibm.com https://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

Step 3 of 7 Shop for products

Products - 2010-06-17 18.00.33

Select a view of the product catalog to add products. Repeat the process with other views, and then continue to the next step to review the complete contents of your order.

Products in order: 0

Catalog view (Products in this view: 63)

Group: VM - All (63 Products)

Language: English (US)

Filter: Show all products

Show catalog

My ShopzSeries

Welcome
Carol Everitt

→ Sign out
→ Edit profile

Tip

→ View a legend for this page.

VM: VM Base Product

Select	Product	Description	Version	Language
<input checked="" type="checkbox"/>	● ◆ [5741-A07]	z/VM V6 3390 System DDR	6.01.00	English (US)
<input type="checkbox"/>	● ◇ [5741-A07]	z/VM V6 System Image DVD (DVD)	6.01.00	English (US)

VM: VM Base Product Options

Select	Product	Description	Version	Language
<input checked="" type="checkbox"/>	○ ◆ [5741-A07]	RSCS Feature	6.01.00	English (US)
<input checked="" type="checkbox"/>	○ ◆ [5741-A07]	RACF Security Server for VM	6.01.00	English (US)
<input checked="" type="checkbox"/>	○ ◆ [5741-A07]	Performance Toolkit for VM	6.01.00	English (US)

Done

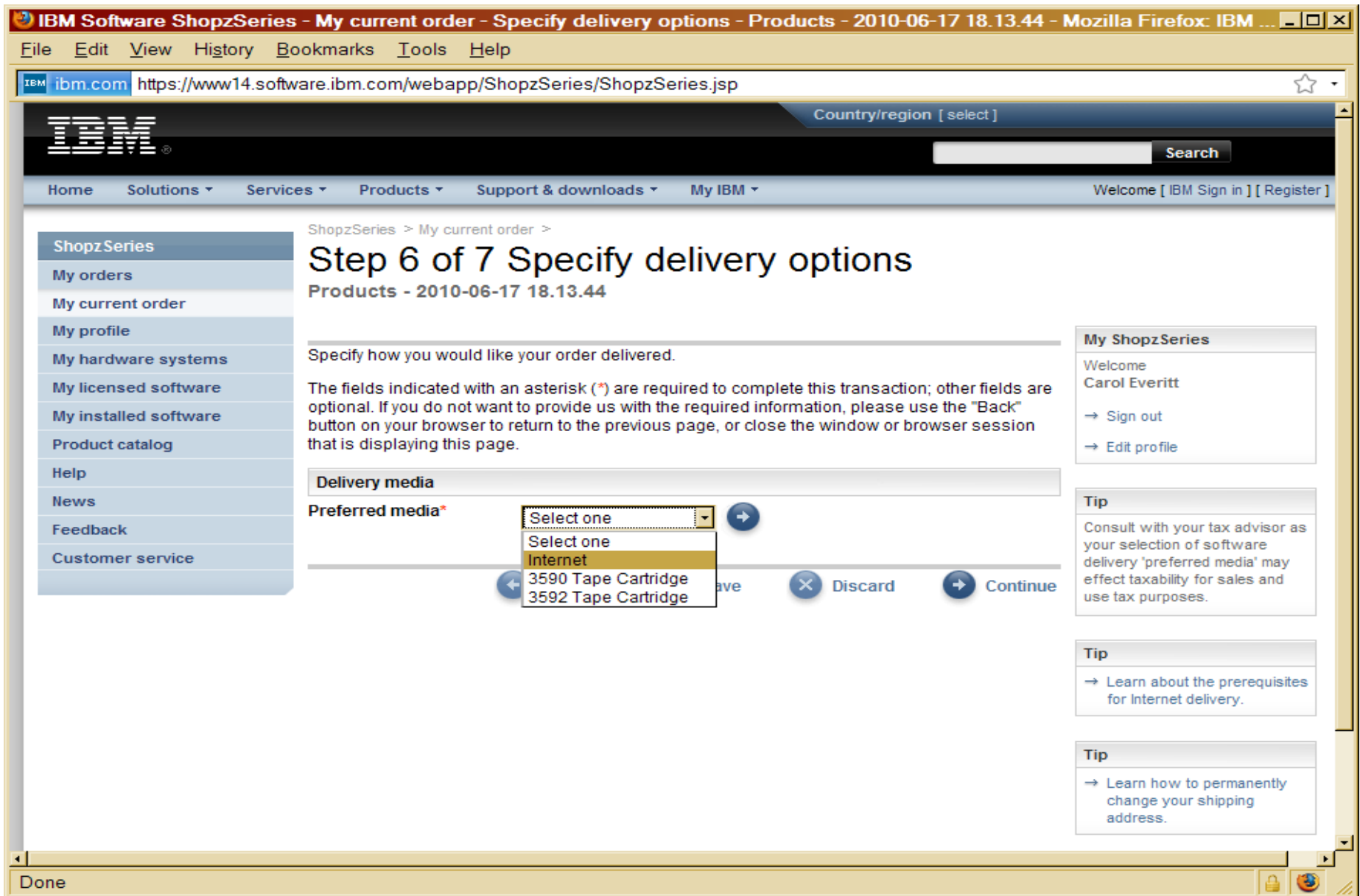
IBM Software ShopzSeries - My current order - Shop for products - Products - 2010-06-17 18.00.33 - Mozilla Firefox: IBM Edition

File Edit View History Bookmarks Tools Help

ibm.com https://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

<input checked="" type="checkbox"/>	◆ ◆	[5741-A07]	DVD Collection Kit (DVD)	6.01.00	English (US)
<input checked="" type="checkbox"/>	◆ ◆	[5741-A07]	DFSMS/VM Primary	6.01.00	English (US)
<input checked="" type="checkbox"/>	○ ◆	[5741-A07]	Dir Maint Facility Feature	6.01.00	English (US)
VM: System Support					
Select		Product	Description	Version	Language
<input type="checkbox"/>	○ ◆	[5655-T13]	zSecure Mgr for RACF z/VM	1.08.01	English (US)
<input type="checkbox"/>	○ ◆	[5697-J05]	Archive Manager for z/VM	1.01.00	English (US)
<input type="checkbox"/>	○ ◆	[5697-J06]	Backup/Restore Manager z/VM	1.02.00	English (US)
<input type="checkbox"/>	○ ◆	[5648-DRZ]	IBM Sys Director Linux on z	6.01.00	English (US)
<input type="checkbox"/>	○ ◆	[5698-A36]	IBM Tiv OMEGAMON z/VM Lin V4	4.02.00	English (US)
<input type="checkbox"/>	○ ◆	[5696-234]	High Level Assembler for VM	1.06.00	English (US)
<input type="checkbox"/>	○ ◆	[5696-234]	High LVL Assem Toolkit VM	1.06.00	English (US)
<input type="checkbox"/>	○ ◆	[5684-042]	ICKDSF VM SES/E Basic Mat.	1.17.00	English (US)
<input type="checkbox"/>	○ ◆	[5654-029]	DITTO/ESA FOR VM	1.03.00	English (US)
<input type="checkbox"/>	○ ◆	[5648-099]	DITTO/ESA FOR VM rel.3	1.03.00	English (US)
<input type="checkbox"/>	○ ◇	[5648-099]	DITTO/ESA FOR VSE rel.3	1.03.00	English (US)
<input type="checkbox"/>	○ ◆	[5654-260]	EREP VM	3.05.00	English (US)

Done



IBM Software ShopzSeries - My current order - Specify delivery options - Products - 2010-06-17 18.13.44 - Mozilla Firefox: IBM ...

File Edit View History Bookmarks Tools Help

IBM ibm.com https://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

Country/region [select]

IBM

Home Solutions Services Products Support & downloads My IBM

Welcome [IBM Sign in] [Register]

ShopzSeries > My current order >

Step 6 of 7 Specify delivery options

Products - 2010-06-17 18.13.44

Specify how you would like your order delivered.

The fields indicated with an asterisk (*) are required to complete this transaction; other fields are optional. If you do not want to provide us with the required information, please use the "Back" button on your browser to return to the previous page, or close the window or browser session that is displaying this page.

Delivery media

Preferred media*

Select one
Select one
Internet
3590 Tape Cartridge
3592 Tape Cartridge

Back Save Discard Continue

My ShopzSeries

Welcome
Carol Everitt

→ Sign out
→ Edit profile

Tip

Consult with your tax advisor as your selection of software delivery 'preferred media' may effect taxability for sales and use tax purposes.

Tip

→ Learn about the prerequisites for Internet delivery.

Tip

→ Learn how to permanently change your shipping address.

Done

Installing z/VM

- **z/VM can be installed directly to an LPAR as a first level system or as a second level guest on an existing z/VM system**
 - ◆ First level is your only choice if you don't have an existing level of z/VM
 - ◆ Second level installation is a good choice if:
 - You have an existing level that you need to migrate to the new level
 - You want to run test workloads prior to moving to production
 - You don't have a first level LPAR available
- **Choose the type of DASD you will use: 3390 or SCSI**
 - ◆ If you ordered z/VM on tape, you can only use 3390 DASD (model 3 or model 9)
 - ◆ For SCSI volumes, any size volume larger than 3.5GB may be used but the installation process will only use up to 10GB per volume.

Installing z/VM

- The “[Guide for Automated Installation and Service](#)” provides step by step instructions for installing z/VM
 - ◆ Part 1: Tape installation, 1st or 2nd level
 - ◆ Part 2: DVD or Electronic Media installation, 1st or 2nd level
- Each part contains the requirements for that type of installation and the associated planning worksheets. Review the installation requirements and use the planning worksheets for the type of installation you are doing
- Parts 3 and 4 cover Post Installation tasks and Service

NOTE: The “Guide for Automated Installation and Service” is for the z/VM product package only. Other IBM LPs (such as High Level Assembler and C/C++) have their own installation instructions. See the Program Directory for each IBM LP for installation information.

Adobe Acrobat Standard - [hcsk2c00.pdf]

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Complete the Installation and Basic IP Connectivity Worksheets

Worksheets

Table 1. DDR Installation Worksheet

Installation method (first-level or second-level): _____

Install To column: record an "M" if you will load the product to a minidisk or an "F" if you will load the product to the VMSYS file pool.

<i>Install To</i>	<i>Product</i>	<i>Install To</i>	<i>Product</i>	<i>Install To</i>	<i>Product</i>
	VM		OSA		PERFTK
	VMHCD		RACF®		DIRM
	RSCS		ICKDSF		TCPIP

System default language: _____

DASD type and model: _____

<i>Pack Type</i>	<i>DASD Label</i>	<i>New Label</i>	<i>DASD Address</i>
RES	610RES	610RES	
SPOOL	610SPL		
PAGE	610PAG		
USER1	610W01		
USER2	610W02		
USER3	610W03		

Note: Installation DASD labels cannot be changed on a first-level installation from tape.

84% 25 of 254

Adobe Acrobat Standard - [hcsk2c00.pdf]

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Table 8. DVD Installation Worksheet

Installation method (first-level or second-level): _____

Install To column: record an "M" if you will load the product to a minidisk or an "F" if you will load the product to the VMSYS file pool.

Install To	Product	Install To	Product	Install To	Product
	VM		OSA		PERFTK
	VMHCD		RACF		DIRM
	RSCS		ICKDSF		TCPIP

System default language: _____

DASD type and model: _____

SCSI disk size: _____ GB

Pack Type	DASD Label	New Label	DASD Address
RES	610RES	610RES	
SPOOL	610SPL		
PAGE	610PAG		
USER1	610W01		
USER2	610W02		
USER3	610W03		

DVD/FTP directory path name: _____

Address of VM minidisk to upload
DVD: _____

Table 9. SCSI Device Definition Worksheet (DVD Installation)

DASD	device address	fcip address	WWPN	LUN
610RES				
610SPL				
610PAG				
610W01				
610W02				
610W03				

Channel path (CHPID): _____

Valid FCP addresses: _____

84%

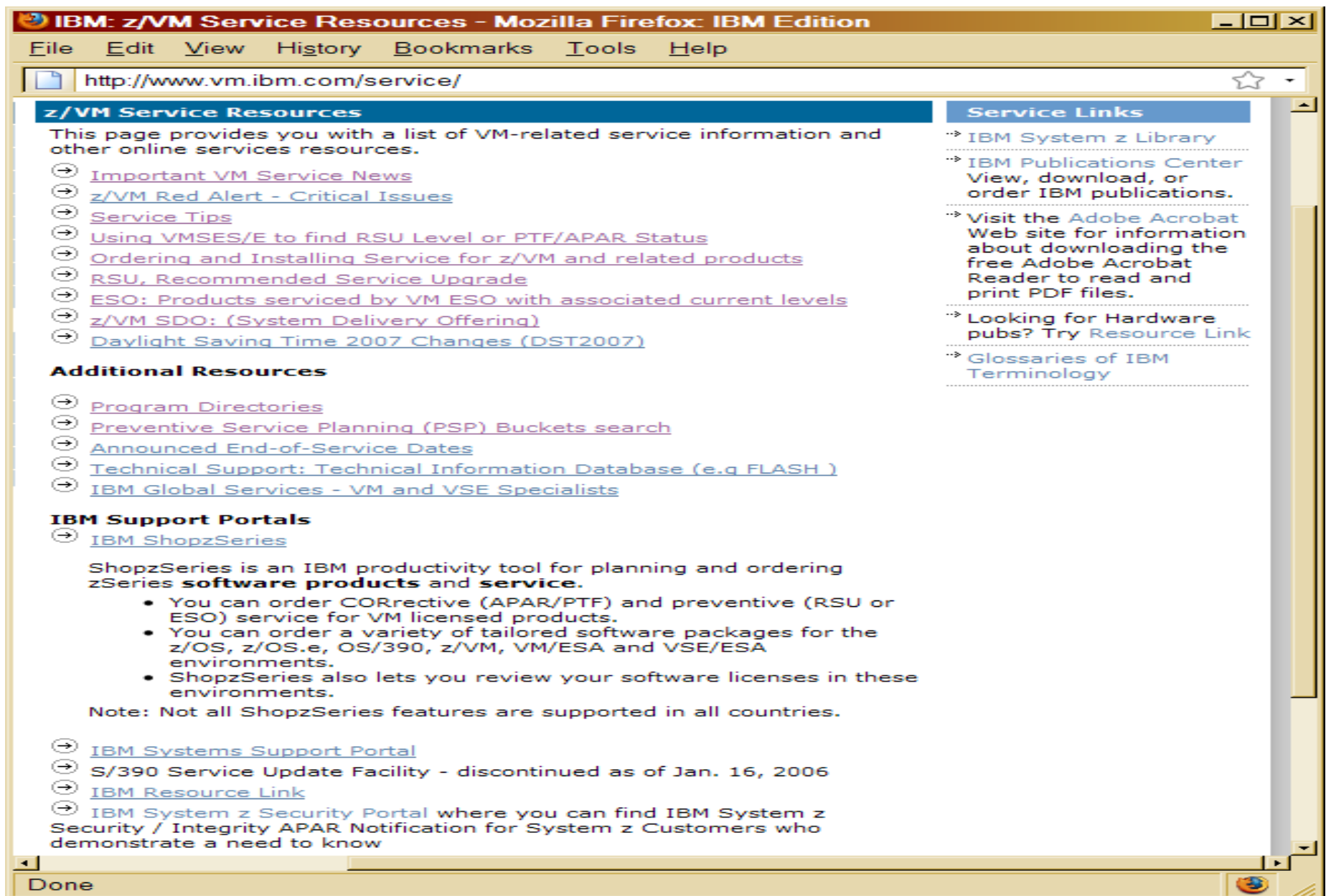
82 of 254

Enabling Preinstalled Features

- **The z/VM product deliverable contains**
 - ◆ 9 base components
 - CP, CMS, GCS, REXX, Language Environment (LE), Dump Viewing Facility (DV), TSAF, AVS and VMSES/E
 - ◆ 5 enabled unpriced features
 - TCP/IP, EREP, HCD and HCM, ICKDSF and OSA/SF
 - ◆ 4 disabled priced features
 - DirMaint, RACF for z/VM, RSCS and Performance Toolkit
- **Most components need some customization and configuration.**
- **The priced features must be enabled and then configured. You must have purchased a license for a feature in order to enable and use it.**
- **If a priced feature is not enabled, the feature will not run.**
- **Information on enabling a priced feature is found in the Program Directory for that feature.**

Servicing z/VM

- **Two main types of service for z/VM**
 - ◆ **Corrective Service (CORs)**
 - Program Temporary Fixes (PTFs)
 - Individual PTFs are ordered for each product or feature separately
 - ◆ **Recommended Service Upgrade (RSU)**
 - Selected corrective service for z/VM and the pre-installed components
 - PTFs are included on an RSU based on problem severity and/or the number customer orders for a particular PTF
 - RSUs are created several times per year for each release of z/VM
 - Even if a feature is not enabled service on an RSU will be installed if entire RSU is installed
- **The [z/VM Service Resources](#) website provides additional information on a variety of topics related to service for z/VM and products that run on z/VM. It also contains a schedule of RSUs for z/VM and the contents of those RSUs.**



IBM: z/VM Service Resources - Mozilla Firefox: IBM Edition

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http://www.vm.ibm.com/service/

z/VM Service Resources

This page provides you with a list of VM-related service information and other online services resources.

- [Important VM Service News](#)
- [z/VM Red Alert - Critical Issues](#)
- [Service Tips](#)
- [Using VMSES/E to find RSU Level or PTF/APAR Status](#)
- [Ordering and Installing Service for z/VM and related products](#)
- [RSU, Recommended Service Upgrade](#)
- [ESO: Products serviced by VM ESO with associated current levels](#)
- [z/VM SDO: \(System Delivery Offering\)](#)
- [Daylight Saving Time 2007 Changes \(DST2007\)](#)

Additional Resources

- [Program Directories](#)
- [Preventive Service Planning \(PSP\) Buckets search](#)
- [Announced End-of-Service Dates](#)
- [Technical Support: Technical Information Database \(e.g FLASH \)](#)
- [IBM Global Services - VM and VSE Specialists](#)

IBM Support Portals

- [IBM ShopzSeries](#)

ShopzSeries is an IBM productivity tool for planning and ordering zSeries **software products** and **service**.

- You can order CORrective (APAR/PTF) and preventive (RSU or ESO) service for VM licensed products.
- You can order a variety of tailored software packages for the z/OS, z/OS.e, OS/390, z/VM, VM/ESA and VSE/ESA environments.
- ShopzSeries also lets you review your software licenses in these environments.

Note: Not all ShopzSeries features are supported in all countries.

- [IBM Systems Support Portal](#)
- [S/390 Service Update Facility](#) - discontinued as of Jan. 16, 2006
- [IBM Resource Link](#)
- [IBM System z Security Portal](#) where you can find IBM System z Security / Integrity APAR Notification for System z Customers who demonstrate a need to know

Service Links

- [IBM System z Library](#)
- [IBM Publications Center](#)
View, download, or order IBM publications.
- [Visit the Adobe Acrobat Web site](#) for information about downloading the free Adobe Acrobat Reader to read and print PDF files.
- [Looking for Hardware pubs? Try Resource Link](#)
- [Glossaries of IBM Terminology](#)

Done

Automated Tools

- **The VMSES/E component of z/VM provides the tools that are used to install service to z/VM and most products that run on VM**
- **Installing service can be complicated by pre-requisites and co-requisites**
- **Entering numerous commands can lead to errors**
- **Automated service commands are provided to reduce the chance of errors**
 - ◆ **SERVICE EXEC**
 - Can be used to install CORs and RSUs
 - Ensures that all required pre-requisite service is installed
 - Ensures that service is installed on components in the correct order to satisfy product dependencies
 - ◆ **PUT2PROD EXEC**
 - Copies serviced parts from test build locations to production locations
 - Rebuilds segments
 - Puts new CPLOAD MODULE onto production parm disk

Additional Service Tasks

- **Other task that are related to servicing your system**
 - ◆ View VMSES/E message logs: **VMFVIEW** (service, put2prod, etc.)
 - ◆ View service memos and manage software inventory:
 - **VMFUPDAT** (sysmemo, syssuf, etc.)
 - ◆ Find out RSU or PTF install status: **SERVICE .. STATUS**
 - ◆ Rebuild executables and segments:
 - **SERVICE .. BUILD**
 - **SERVICE .. BLDNUC**
 - ◆ Install local service or local modifications: **LOCALMOD**
 - ◆ Remove local service or a PTF: **VMFREM**

References

■ VM web pages

- ◆ <http://www.vm.ibm.com/> - the z/VM home page
- ◆ <http://www.vm.ibm.com/library/> - contains links to the PDF files for the VM manuals, to the [IBM InfoCenter for z/VM](#) and to [Redbooks for VM](#)
- ◆ <http://www.vm.ibm.com/service/> - contains specific information related to service

■ Specific Publications

- ◆ “Guide for Automated Installation and Service”
- ◆ “Service Guide”
- ◆ “VMSES/E Introduction and Reference”
- ◆ Program Directories for individual products (z/VM, TCP/IP, etc.)