IBM

Instructions for Receiving Electronically Delivered IBM® z/VM® Base Operating System Deliverables - z/VM V7R1

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1. Contents of your product order

When you display your completed electronic order, you will see a list of several items. Those items include:

- **Order Packing List**

  This is a list of all the materials included in your order. You should review this list to make sure your order is complete.

- **Installation Instructions**

  This is a link to this document. The instructions in this document are to be used when retrieving the z/VM Electronic Product Package for 3390 or SCSI.

- **Additional Material**

  This section contains links to product materials not covered in other categories. For z/VM product orders, these materials are:

  1. The z/VM Agreements and License Information (a compressed file (CD770730.ZIP) that contains an ISO image of the License Information DVD (CD770730.ISO)).

  2. Compressed files for the ISO image files of the z/VM product and RSU DVDs.

- **Product Publications**

  This item contains links to various VM publications, including the *z/VM: Installation Guide*, the *Program Directory z/VM Version 7 Release 1*, and the program directories for the z/VM product features

included with your order. It will also contain links to the memos to users for any priced features that were included in your order.

- **Additional Publications**

    This item includes a link to the z/VM SDO Memo to Users.

- **VM Product Material**

    This item contains links to download the compressed (ZIP) folders that contain the z/VM product and RSU installation files.

2. Select Files to Download

The files for installing z/VM are shipped in two formats:

- Folders of files for the z/VM product for 3390, SCSI and the installation RSU that are compressed into ZIP files. These compressed files are found in the **VM Product Material** section of your order.
- ISO images of the z/VM product DVDs for 3390, SCSI and the installation RSU that have been compressed into ZIP files. These compressed files are found in the **Additional Material** section of your order.

You do not need to download both formats. Select the format that you prefer, folders or ISO images, and follow the instructions in that download section of this document.

3. Procedure To Download and Process the Folder ZIP files

Names of the Folder ZIP Files (found in **VM Product Materials**):

```
CD770760.ZIP      3390 - z/VM Product Package
CD770770.ZIP      SCSI - z/VM Product Package
CD770780.ZIP      3390 & SCSI - z/VM Stacked RSU
```

The ZIP files need to be downloaded to a workstation where they can be unzipped. Only the ZIP files appropriate for the host system DASD where you plan to install need to be downloaded.

- If installation will be to 3390 DASD, download CD770760.ZIP and CD770780.ZIP.

- If installation will be to SCSI DASD, download CD770770.ZIP and CD770780.ZIP.

Note: The ZIP file for the z/VM Stacked RSU contains files for both 3390 and SCSI DASD formats.

The ZIP files will need to be unzipped before the Folders containing the product files can be used so you will need free space on your workstation for both the ZIP and unzipped files. The amount of space required is as follows:

	File Names	Total Space Required
3390 - z/VM Base and RSU	CD770760.ZIP and CD770780.ZIP	7.5 GB
SCSI - z/VM Base and RSU	CD770770.ZIP and CD770780.ZIP	7.5 GB

The data was compressed with the file compression tool provided with Microsoft® Windows®. There are a number of popular programs available on the Web which will decode a ZIP file.

Unzip the product and RSU files

The product and RSU ZIP files each contain a folder named CPDVD. That folder contains either the installation files for the z/VM product or the files for the installation RSU. To unzip the files, do the following:

1. Create a folder named "PRODUCT" and a folder named "RSU"

2. Unzip the product ZIP file (either CD770760.ZIP or CD770770.ZIP) to the folder named "PRODUCT". That folder will now contain the CPDVD folder that contains the product installation files for either 3390 or SCSI.

3. Unzip the RSU ZIP file (CD770780.ZIP) to the folder named "RSU". That folder will now contain the CPDVD folder that contains the RSU installation files for both 3390 and SCSI.

Once the folders have been unzipped select the process below that best suits your needs.

If installing from DVDs

You must create the DVDs you will need to install z/VM.

1. You will need one DVD for the product and one for the RSU

2. The DVD type you use when you burn your installation DVD must be DVD-R. To produce a DVD-R type DVD, you must have software and hardware that support burning DVDs. When burning your DVD, if your software supports the Joliet file system extensions you should select that option.

3. Burn the folder named CPDVD that is in the "PRODUCT" folder and all of its contents onto a DVD

4. Label the DVD:
   Product Installation DVD for z/VM V7R1
   Include the DASD type (3390 or SCSI) and the date that you ordered the product.

5. Burn the folder named CPDVD that is in the "RSU" folder and all of its contents onto another DVD.

6. Look for the file named "rsulevel" in the CPDVD folder and make a note of the file extension. The extension is the RSU number that was shipped with the product installation files, for example, 7101.

7. Label the second DVD:
   z/VM Installation RSU **XXXX**
   where **XXXX** is the RSU number noted in the previous step.

If installing from a USB flash drive

You must copy the product and RSU files to a USB flash drive.

1. Copy the CPDVD folder that is in the "PRODUCT" folder to the USB flash drive.

2. Copy the contents of the CPDVD folder that is in the "RSU" folder into the CPDVD folder that is on the USB flash drive. If prompted, select to replace any files already in the folder with the files from the RSU CPDVD folder.

Note: If you intend to install z/VM using a USB flash drive that is plugged into a USB port on an HMC, you must ensure that the USB flash drive is supported by the HMC. Consult your hardware documentation for information on supported USB flash drives.

Go to section 5, "Installing z/VM V7R1" on page 7.

If installing from an FTP server directory

You must copy the product and RSU files to an FTP server directory.

1. Copy the contents of the CPDVD folder that is in the "RSU" folder into the CPDVD folder that is in the "PRODUCT" folder. If prompted, select to replace any files already in the folder with the files from the RSU CPDVD folder.

2. If you will be installing from a workstation-based FTP server, make sure the folder named "PRODUCT/CPDVD" is accessible to the FTP server. If necessary, you can move the contents of "PRODUCT/CPDVD" to a folder that is already accessible to the FTP server. The name of the folder to be used by the server can be whatever you like, as long as the entire path name is no more than 40 characters.

Go to section 5, "Installing z/VM V7R1' on page 7.

4. Procedure to Download and Process the ISO ZIP files

Names of the ISO Files (found in **Additional Materials**):

```
CD770690.ZIP      ISO for 3390 z/VM Base Product Package
CD770700.ZIP      ISO for SCSI z/VM Base Product Package
CD770710.ZIP      ISO for 3390 & SCSI z/VM Stacked RSU
```

The zipped ISO files need to be downloaded to a workstation where they can be unzipped. Only the ISO files appropriate for the host system DASD where you plan to install needs to be downloaded.

- If installation will be to 3390 DASD, download files CD770690.ZIP and CD770710.ZIP.

- If installation will be to SCSI DASD, download files CD770700.ZIP and CD770710.ZIP.

Note: The z/VM Stacked RSU ISO file contains files for both 3390 and SCSI DASD formats.

The ZIP files will need to be unzipped before the ISO image files can be used so you will need to have space available on your workstation for both the ZIP and unzipped files. The amount of space required is as follows:

	File Names	Total Space required
3390 - z/VM Base and RSU	CD770690 and CD770710	7.5 GB
SCSI - z/VM Base and RSU	CD770700 and CD770710	7.5 GB

Once the ISO files have been successfully downloaded to the workstation, and unzipped, select the process below that best suits your needs.

To create installation DVDs:

1. You must have at least 2 DVD's: one for the z/VM Base product and one for the z/VM RSU.

2. The DVD type you use when you burn your installation DVD must be DVD-R. To produce a DVD-R type DVD, you must have software and hardware that support burning DVDs. When burning your DVD, if your software supports the Joliet file system extensions you should select that options.

3. You can not copy the ISO file to DVD. You need to have or to install a third party utility, such as Roxio Creator, that "burns an image to disk".

4. Burn a DVD using the ISO image for the z/VM base.

5. Label the z/VM base DVD:
   Product Installation DVD for z/VM V7R1
   Include the DASD type (3390 or SCSI) and the date that you ordered the product.

6. Burn the second DVD using the ISO image for the z/VM RSU.

7. Open the CPDVD folder on the RSU DVD, look for the file named "rsulevel" in the CPDVD folder and make a note of the file extension. The extension is the RSU number that was shipped with the product installation files, for example, 7101.

8. Label the z/VM Stacked RSU DVD:
   z/VM Installation RSU DVD for z/VM V7R1 **xxxx**
   where **xxxx** is the RSU number noted in the previous step.

Go to section 5, "Installing z/VM V7R1" on page 7.

To use the ISO files without creating DVDs:

In order to use the ISO files without creating DVDs you will need to select one of these three options:

1. Mount the ISO file at a location that is accessible to an FTP server running on your workstation and appears to be a DVD drive.

2. Mount the ISO file and then copy the contents to another folder that is accessible to your FTP server.

3. Mount the ISO file and then move the contents to a minidisk on your VM system.

If you use the first option, you must install VM using the instructions for installing from a DVD drive.

If you use the second option, you must install VM using the instructions for installing from an FTP server directory.

If you use the third option, you must install VM using the instructions for installing from a VM minidisk.

Mounting an ISO file using Microsoft® Windows®:

Beginning with Windows 8 there is built-in support for mounting ISO files right from File Explorer. If your operating system is older than Windows 8, you will need software on your workstaion that allows you to mount an ISO file. These instructions are for using the built-in support.

- Open File Explorer and locate the ISO image on your hard drive.
- Select the ISO file and take a look at the tabs in the ribbon at the top of the window. You'll notice a "Disk Image Tools" tab.
- Click on "Disk Image Tools" tab and you'll see you have two options: Mount and burn.
- Click "Mount" and the contents of the ISO will immediately open.

If you will be installing from an FTP server using the ISO as a DVD, you will be prompted during the installation process to put the RSU DVD into the DVD drive. At this point you must got to your workstation and mount the ISO file for the RSU at the same location where you had mounted the ISO file for the z/VM product.

If you will be installing from an FTP directory, you should copy the files to the directory you will use and then repeat the mounting procedure above to mount the ISO file for the RSU. You must copy the RSU files to the same directory where you are copying the product files.

Go to section 5, "Installing z/VM V7R1" on page 7.

Mounting an ISO file using Linux®:

- After downloading the ISO file take note of the directory structure where it resides.
- Create a new directory to mount it at or use the default one installed with linux (/mnt) that is just for this purpose.
- On the Linux command line use the following command to mount the ISO file so that it expands the directory structure.

  mount -o loop -t iso9660 -r */directoryname/filename***.iso** */mnt*

  Note: You must change:

  - *directoryname* to the name of the directory where the ISO file is stored
  - *filename* to the name of the ISO you downloaded
  - */mnt* if using a directory name you created.
- After issuing the above command, you can enter

  ls */mnt*

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You should see the CPDVD subdirectory. This directory will contain the install files needed as described in the installation guide.

If you will be installing from an FTP server using the ISO as a DVD, you will be prompted during the installation process to put the RSU DVD into the DVD drive. At this point you must got to your workstation and mount the ISO file for the RSU at the same location where you had mounted the ISO file for the z/VM product.

If you will be installing from an FTP directory, you should copy the files to the directory you will use and then repeat the mounting procedure above to mount the ISO file for the RSU. You must copy the RSU files to the same directory where you are copying the product files.

Note: For help with your Microsoft Windows or Linux operating system functions please refer to their documentation specific to your release or distribution being used.

5. Installing z/VM V7R1

The instructions for installing z/VM Version 7 Release 1 from a DVD, a USB flash drive, an FTP server or a VM minidisk are found in the *z/VM Version 7 Release 1 Installation Guide*, GC24-6292, Part 2, "Traditional installation", or Part 4, "Upgrade installation". Select the part to follow according to the type of installation (traditional or upgrade) that you will be performing.

Review the planning requirements, fill in the planning worksheets and then follow the instructions in Part 2 or Part 4 that match the installation methods you are performing (first or second level, installing from DVD, FTP server or VM minidisk (second level only)).

The *z/VM Version 7 Release 1 Installation Guide* is available in the z/VM V7R1.0 Library in IBM Knowledge Center at:

https://www.ibm.com/support/knowledgecenter/SSB27U_7.1.0/

The program directories for z/VM and its features are available at the following website:
http://www.vm.ibm.com/progdir/

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