

# CBPDO Internet Delivery Installation Checklist

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## OVERVIEW

Your order's download package is provided in SMP/E GIMZIP format, therefore SMP/E commands (RECEIVE FROMNETWORK/RECEIVE FROMNTS) and utilities (GIMUNZIP) are used to process your order. **Your order will reside on IBM's download server for 30 days before it expires. You must complete the download of all order content before your order expires.**

You must first perform the tasks to ensure your environment is set up to accommodate the download of this package. The package is intended for the z/OS UNIX® environment so it will ultimately reside in the download file system on your z/OS host system. Therefore, you must ensure you have enough space to accommodate the download of your order.

There are 2 methods to download your order. Choose the method that meets the needs of your environment.

- Direct to host
  - You can download directly to your z/OS host system using Secure FTP (FTP using Secure Sockets layer or FTPS) or HTTP Secure (HTTP using Secure Sockets layer or HTTPS).
- Store and Forward
  - You can download to your workstation first using IBM Download Director with Encryption then upload to your z/OS host system.

**Do not forget to perform the tasks to download any publications, CD/DVD images, or other material before your order expires. There is an "instructions" or README file on each page that describes what to do on that page.**

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## TASK: Understand your Environment

Understand how your environment can affect your choices for Internet delivery.

- downloading to host or workstation
- size of your order and data transfer rates
- security requirements

WHERE YOU WILL FIND INFORMATION: "z/OS Planning for Installation"

A link to this publication via the z/OS Internet Library is provided on the Shopz Help pages under the Internet Delivery topic in the Additional Resources section, and on the customized download page for "Installation Documentation". Review Chapter 2 Topic "Choosing the order delivery method: DVD or Internet", especially subtopic "Choosing the Internet download method: direct or intermediate". Also review Chapter 4 subtopic "The Internet delivery process" for an overview of the end-to-end process.

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## TASK: Prepare your environment for Internet delivery

To prepare your environment for Internet delivery you must satisfy the hardware and software requirements.

If you are downloading your order directly to your host, you will have the option to use FTPS or HTTPS to download the order.

Go to the Connectivity Test for SW Download Readiness web site for instructions on how to set up and verify that your system can connect to the IBM download servers and download the test package. You can find the Connectivity Test for SW Download Readiness web site at:

<https://www.ibm.com/marketing/iwm/iwm/web/preLogin.do?source=cbct>

WHERE YOU WILL FIND INFORMATION: "z/OS Planning for Installation"

A link to this publication via the z/OS Internet Library is provided on the Shopz Help pages under the Internet Delivery topic in the Additional Resources section, and on the customized download page in "Installation Documentation". Review the Chapter 3 Topic "Identifying driving system software requirements for installing z/OS and other IBM products using CBPDO", especially subtopic "Internet delivery driving system requirements", and "Identifying driving system hardware requirements".

The download package for your order is intended for your download file system in the z/OS UNIX environment. IBM recommends you have available space in your download file system equal to 3 times the size of your download package as reported in the "CBPDO Material" section of the download page in Shopz. In some cases, you may also find it useful to specify a SMPWKDIR DD statement in your RECEIVE or GIMUNZIP JCL. SMPWKDIR will allow you to specify a z/OS UNIX path to tell SMP/E where to get temporary workspace. In this way, you could create a new zFS file system and mount it at the directory pointed to by the SMPWKDIR DD statement. This will allow you to reduce to 1x the space required in the download file system since you will be using the SMPWKDIR file system for the remaining 2x workspace.

A valid SMP/E global zone will also be required for direct to host transfers. Any valid SMP/E global zone can be used and it does not have to be the zone intended to install this program product into. However, if a global zone is unavailable to you, SMP/E provides a sample job in SYS1.SAMPLIB(GIMSAMPU) to allocate a new SMP/E environment for RECEIVE processing. The job is set up to RECEIVE products from the z/OS SREL. If you need to receive CICS or IMS/DB2 products, then you will need to modify the SREL(Z038) indicator to SREL(C150) or SREL(P115) respectively. Failure to do so will result in an error during RECEIVE processing NO APPLICABLE ++VER. This new zone can also be used for the actual install of the program product. For further information on SMPNTS and GIMUNZIP, review "z/OS SMP/E Reference" (SA23-2276). A link to this publication can be found at:

<https://www.ibm.com/servers/resourceLink/svc00100.nsf/pages/zOSV2R5SmpeVersion3Publications>

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Choose your Download Method and perform ONE of the next two tasks:

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EITHER

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## **TASK: Download Directly to your z/OS Host System**

WHERE YOU WILL FIND INFORMATION: Under heading "CBPDO Material"

For this download method, click on "Download package (xxx MB) to host with RFNJOBS using FTPS" or "Download package (xxx MB) to host with RFNJOBH using HTTPS" on the Shopz download page for this order. From the new browser window, cut and paste the supplied RFNJOBS or RFNJOBH job, customize it, and execute it from your z/OS host system. This is the preferred method for downloading the order to your z/OS host system. You can customize the RFNJOBS Job JCL to use FTPS or RFNJOBH Job JCL to use HTTPS. CBPDO order packages are now signed by IBM and you can optionally customize the RFNJOBH or RFNJOBS Job JCL to verify the digital signature. See the job comments for further details. The RFNJOBS or RFNJOBH JCL invokes SMP/E's RECEIVE FROMNETWORK command for the transfer of the package files to the download file system specified in the SMPNTS DD statement, uses the USS pax function to unzip the package files, then RECEIVES the package content into your specified global zone. If you do not wish to RECEIVE the order as part of the transfer, then use the TRANSFERONLY operand in the RFNJOBS or RFNJOBH JCL.

Note that the JCL will still require a global zone to be specified when TRANSFERONLY is used, even though nothing is actually being done in the zone.

For further information on RECEIVE FROMNETWORK, review "z/OS SMP/E Commands" (SA23-2275).  
For further information on SMPNTS and GIMUNZIP, review "z/OS SMP/E Reference" (SA23-2276).  
For further details regarding verifying the digital signature for your CBPDO order package, see Chapter 6 "Preparing to verify signatures for GIMZIP packages" in the "z/OS SMP/E User's Guide" (SA23-2277).

A link to these publications can be found at:

<https://www.ibm.com/servers/resourceink/svc00100.nsf/pages/zOSV2R5SmpeVersion3Publications>

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OR

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**TASK: Download to your Workstation First then Upload to your z/OS Host System**

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If you are unable to use RFNJOBS or RFNJOBH for the transfer because your z/OS host system cannot access the Internet, or because of local firewall reasons, or because you do not have the ICSF or Java requirement for hash checking, then you can use IBM Download Director to first transfer the order content to your workstation.

If you are downloading your order to a workstation:

WHERE YOU WILL FIND INFORMATION: Under heading "CBPDO Material"

Use the "Download to your workstation using IBM Download Director (xxx MB)" on the initial Shopz download page for your order. The link initiates the download of your order to the workstation using the IBM Download Director with encryption.

After the download to your workstation is complete, the package must be transferred to your z/OS host system UNIX environment preserving the directory structure. You must upload the files in binary format from the workstation to the z/OS host. On a Windows system, you can use FTP from a command prompt to upload the files:

```
C:\> ftp <hostaddress>
User (hostaddress:(none)): <tsouid>
331 Send password please.
Password:
230 tsouid is logged on. Working directory is "tsouid.".
Prompt off
Interactive mode Off
mkdir /smpnts/<ordernumber>
cd /smpnts/<ordernumber>
bin
mput packagelocation\<ordernumber>\*. *
mkdir /smpnts/<ordernumber>/SMPHOLD
```

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```
cd /smpnts/<ordernumber>/SMPHOLD
bin
mput packagelocation\<ordernumber>\SMPHOLD\*. *
mkdir /smpnts/<ordernumber>/SMPPTFIN
cd /smpnts/<ordernumber>/SMPPTFIN
bin
mput packagelocation\<ordernumber>\SMPPTFIN\*. *
mkdir /smpnts/<ordernumber>/SMPRELF
cd /smpnts/<ordernumber>/SMPRELF
bin
mput packagelocation\<ordernumber>\SMPRELF\*. *
quit
```

where,

**<hostaddress>** is the name or address of the z/OS host system.

**<tsouid>** is the valid user ID to be used when logging onto the z/OS host system

**packagelocation** is the directory path on your hard drive where IBM Download Director stored the package.

**smpnts** is the path name of the directory in the host file system where the package will reside.

**<ordernumber>** is the CBPDO order number.

You will not be able to unzip the files or browse the README part of the package from your workstation. They must first be transferred to your z/OS Host system UNIX environment. For further information on IBM Download Director, see

[https://www6.software.ibm.com/dldirector/doc/DDfaq\\_en.html](https://www6.software.ibm.com/dldirector/doc/DDfaq_en.html)

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## TASK: Unzip CBPDO data sets for your Order

Once the package resides in your download file system on your z/OS Host system, you can browse the README file and use the supplied GIMUNZIP job to unzip RIMLIB, DOCLIB and PGMDIR data sets to DASD.

WHERE YOU WILL FIND INFORMATION: "CBPDO Memo to Users" link on the Installation Documentation secondary download page

If you used your workstation as an intermediate node OR used the TRANSFERONLY operand in your RFNJOBS or RFNJOBH (RECEIVE FROMNETWORK job), the SMP/E RECEIVE must still be done.

RIMLIB contains the RCVPDO job that will invoke RECEIVE FROMNTS to RECEIVE the package into a global zone. RIMLIB also has the UNZIPJCL job that will allow you to unzip specific refiles from your order to access product-supplied sample jobs before running the SMP/E RECEIVE. CBPDO order packages are now signed by IBM and it is optional to verify the digital signature which can be done by making updates to the UNZIPJCL job. For further details regarding verifying the digital signature for your CBPDO order package, see Chapter 6 "Preparing to verify signatures for GIMZIP packages" in the "z/OS SMP/E User's Guide" (SA23-2277). A link to this publication can be found at:

<https://www.ibm.com/servers/resourceink/svc00100.nsf/pages/zOSV2R5SmpeVersion3Publications>

# CBPDO Internet Delivery Installation Checklist

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**TASK: Download Publications for your Order**

WHERE YOU WILL FIND INFORMATION: "Product Publications" link  
"Additional Licensed Publications" Link

The "Product Publications" link provides you with unlicensed publications for your order. If there are licensed publications associated with your order, these are available with the "Additional Licensed Publications" link".

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# CBPDO Internet Delivery Installation Checklist

## **TASK: Download CD/DVD Images**

WHERE YOU WILL FIND INFORMATION: "CD/DVD Images and Other Licensed Material" link

The "CD/DVD Images and Other Licensed Material" link provides those who requested electronic delivery with CD and DVD images, if any are associated with the product content of your order. Often, these images contain content such as client code.

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## **Task: Complete your Installation**

WHERE YOU WILL FIND INFORMATION: "Installation Documentation" link

The "Installation Documentation" secondary page contains links to the "CBPDO: Memo to Users" and "CBPDO: Memo to Users Extension" documents. After you have completed the download of your order, use these documents to continue with your CBPDO installation.

**Remember you need to complete the download of all the order contents before your order expires. Your order resides on the IBM download server for 30 days.**

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