



# **IBM Power Development Program**

## **IBM i software user guide**

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## **PDP Guide for Additional Software on IBM i**

Every IBM i image in PDP is provided with selected pre-installed software. This user guide explains how to access and install additional software.

Please note:

For PDP AIX and Linux users, IBM provides access to IBM software via the PDP-SAC (Power Development Program Software Access Catalog). Please refer to the PDP-SAC User Guide on the PDP '[How to](#)' page for more information. It is also possible to get additional IBM i middleware from the PDP-SAC by making an AIX or Linux reservation, accessing the PDP-SAC, and then copying the installation image(s) by FTP to the IBM i partition.

The use of Software accessed via the PDP-SAC is limited to use within the Power Development Program. You may not download, copy, install, or use the Software on any other systems, including systems within your enterprise. If you need to have copies of these programs outside of the PDP,

Visit the Software Mall for more information.

<https://www-304.ibm.com/partnerworld/wps/servlet/ContentHandler/isv/sac>

### **IBM Licensed Program Products (LPP's) for iBM i**

To load additional IBM i software components for IBM i6.1 and IBM i7.1, the standard stack media is located on an NFS server within the PDP infrastructure on /stage/middleware/i5OS. For IBM i7.2, LPP ISO images are available in the groups of i72\_B\_GROUP3\_01.iso through i72\_B\_GROUP3\_05.iso in the directory /stage/middleware/i5OS/V7R2

#### **NFS-Mount /stage/middleware**

MKDIR '/stage'

MKDIR '/stage/middleware'

##### **For IBM i6.1 and IBM i7.1:**

MOUNT TYPE(\*NFS) MFS('192.168.1.12:/stage/middleware')

MNTTOVRDIR('/stage/middleware')

##### **For IBM i7.2:**

MOUNT TYPE(\*NFS) MFS('192.168.1.11:/stage/middleware') MNTTOVRDIR  
('/stage/middleware')

Your IBM i system is now connected to the middleware repository. In the /stage/middleware directory, there are subdirectories for each IBM i release.

## Set up a virtual optical device

Use a virtual optical device to load software from these CD images. Create a virtual optical device (virtual CD drive) and vary it on. This step is only required if this is the first time you have used this process to install software.

```
DLTDEV D(VOPT01)
CRTDEVOPT DEVD(VOPT01) RSRCNAME(*VRT)
VRYCFG CFGOBJ(VOPT01) CFGTYPE(*DEV) STATUS(*ON)
```

Create an image catalog to hold one or more CD images. The following command will create the \*IMGCLG object and the IFS directory where the CD images will reside.

```
DLTIMGCLG IMGCLG(VOPT01)
DLTIMGCLG IMGCLG(TEMP)
CRTIMGCLG IMGCLG(TEMP) DIR('/temp_i5os') CRTDIR(*YES)
```

**Note: The /temp\_i5os directory, its contents, and the TEMP \*IMGCLG object are NOT saved during PDP image save/restore operations!**

If you wish to use virtual optical support for something saved in your PDP image, do this in a different image catalog and a different IFS directory.

## Select CD image(s) & IBM i Image Repositories

Identify which CD images are required for the product(s) you wish to load. Please refer the Media Identifiers of respective releases of IBM i for knowing which ISO group has what products. You may refer to the following web links for quick look-up:

For IBM i6.1:

<http://www-01.ibm.com/support/docview.wss?uid=nas8N1018761>

For IBM i7.1 & IBM i7.2:

<http://www-01.ibm.com/support/docview.wss?uid=nas8N1011059>

## Copy image(s) to IBM i virtual optical device

The required CD image(s) must be copied from the /stage/middleware repository to a local directory on IBM i before loading them into a virtual optical image catalog. The command ADDIMGCLGE will perform this copy. Run the following command, as an example, to load required ISO for IBM i6.1 or IBM i7.2

```
/stage/middleware/i5OS/V6R11/B2924_01.iso
```

or

```
/stage/middleware/i5OS/V7R2/i72_B_GROUP3_05.iso
```

This will take from 20 to 30 minutes to complete, depending on the size of ISO.

Examples:

```
ADDIMGCLGE IMGCLG(TEMP)
FROMFILE('/stage/middleware/i5OS/V6R11/B2924_01.iso')
```

```
ADDIMGCLGE IMGCLG(TEMP)
FROMFILE('/stage/middleware/i5OS/V7R2/i72_B_GROUP3_05.iso')
```

Once the image catalogue is added, load the image catalog into the virtual optical device.

```
LODIMGCLG IMGCLG(TEMP) DEV(VOPT01)
```

### **Install software**

Use the VOPT01 virtual device to load software using GO LICPGM option 11 or RSTLICPGM.

```
RSTLICPGM LICPGM(5761SS1) DEV(VOPT01) OPTION(9)
```

### **Cleanup**

Unload the image catalog and remove the CD images from the IBM i partition. Failure to unload the image catalog may cause save image errors. Note that the image catalog object TEMP is not saved during PDP image save operations.

```
LODIMGCLG IMGCLG(TEMP) DEV(VOPT01) OPTION(*UNLOAD)
DLTIMGCLG IMGCLG(TEMP) KEEP(*NO)
```

### **PDP Pre-installed IBM i Software Components**

To review the IBM i software components that are pre-installed by PDP, please issue the Display Software Resources command (DSPSFWRSC)

<https://pic.dhe.ibm.com/infocenter/iseres/v6r1m0/index.jsp?topic=/cl/dspsfwrsc.htm>