C4D/C4D CAN - UPDATE GUIDE v2.2

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1. Requirements

1. One pen drive or a couple Sd card/USB Reader
2. The HP Drive Key Boot Utility[1]
3. The update package containing the following files:
   - **Pen drive/Sd card restoration file**
     - result_SAP20.img
   - **Update files**
     - fs.cramfs
     - image.bin
     - sbsl.bin
     - user.tar.gz
   - **Optional update file**
   - update_only (Allows to skip the test procedure)

[1] ftp://ftp.hp.com/pub/products/servers/supportsoftware/cp006001-006500/cp006049.exe

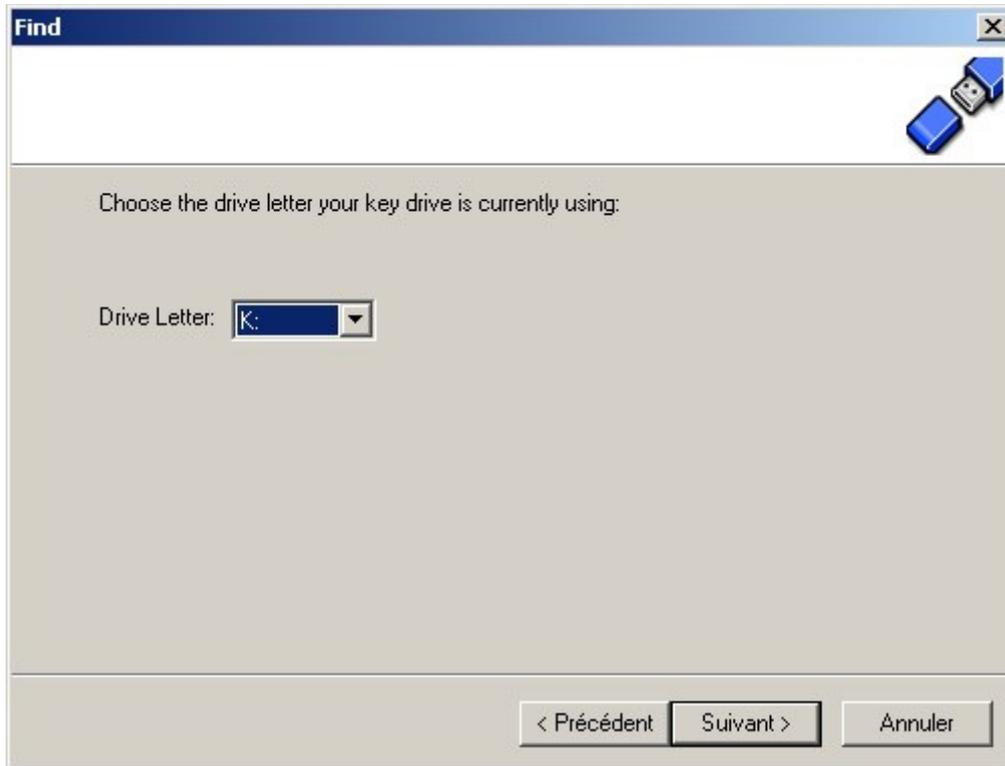## 2. Building the update pen drive/Sd card with Windows XP

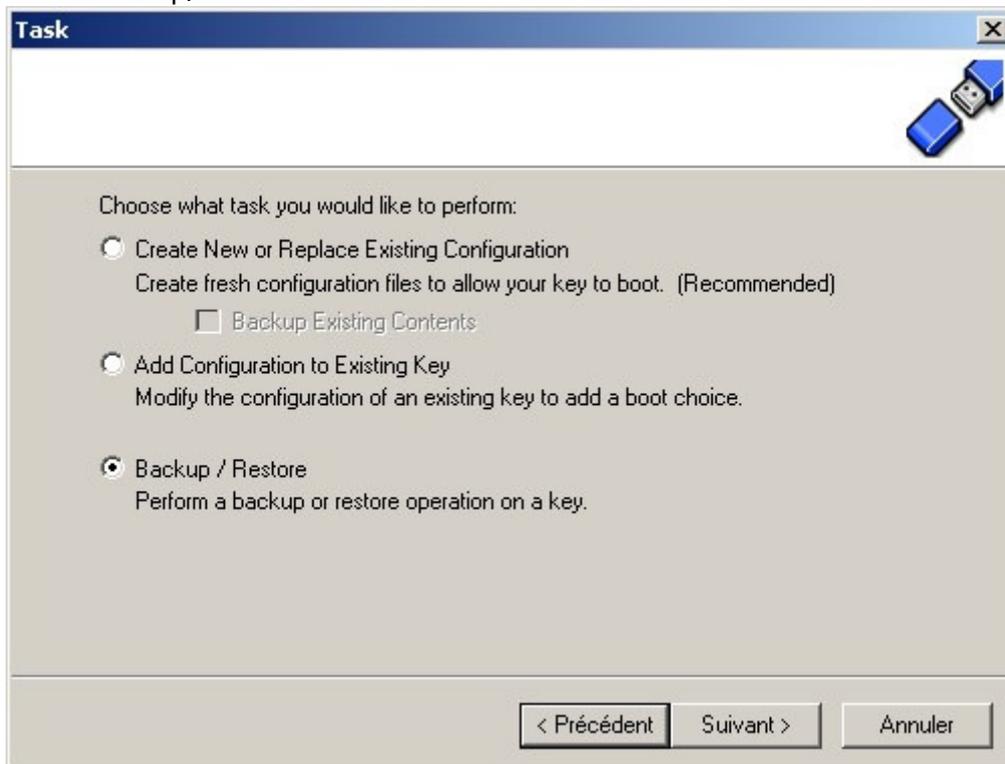⚠ The *HP Drive Key Boot Utility* is not compatible with windows Vista/7.

1. Extract the package MDI_PCK*.rar.
2. Install the HP Drive Key Boot Utility (cp006049.exe).
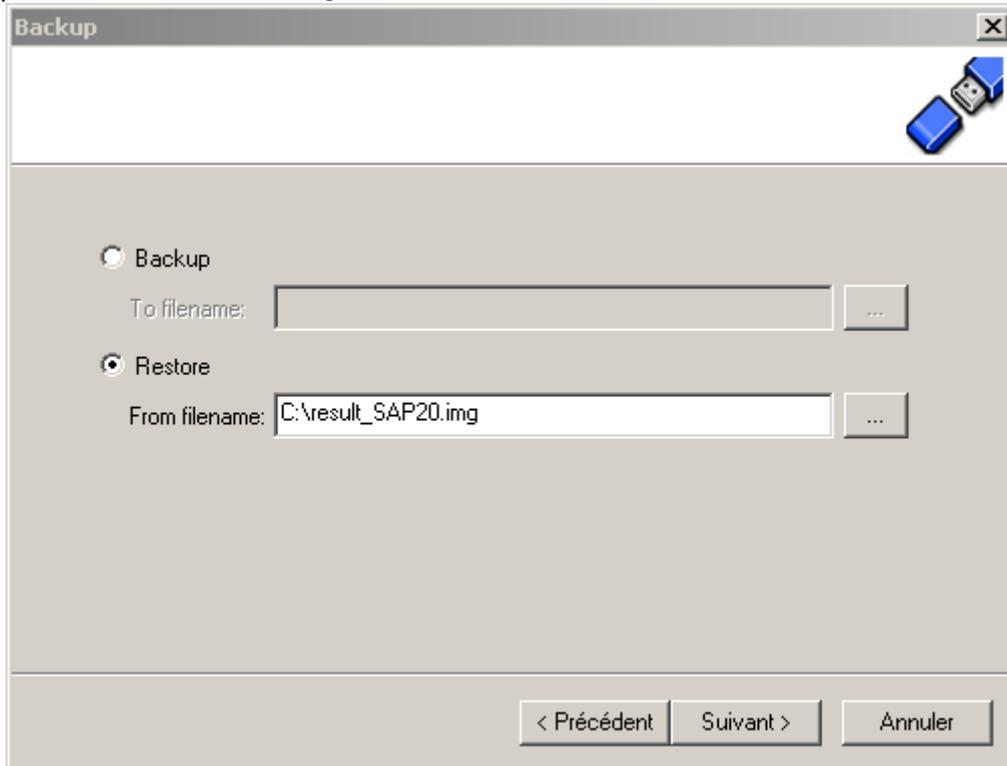3. Launch it then click 'next'.
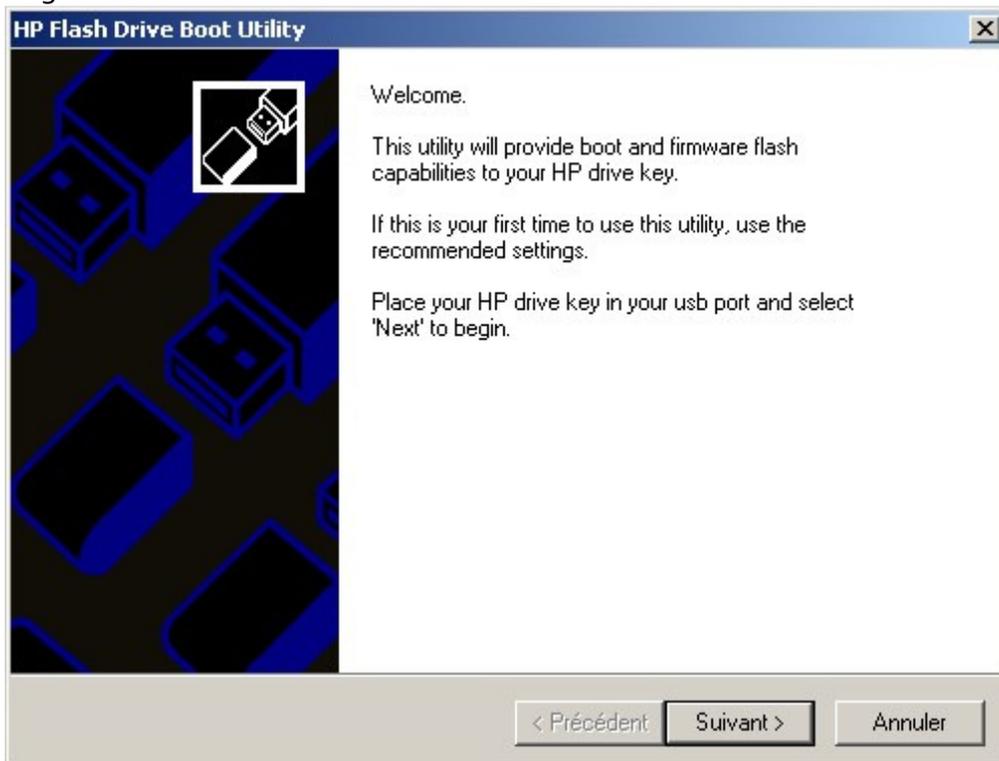
4. Select the Drive letter then click 'next'.

5. Select Backup/Restore then click 'next'.
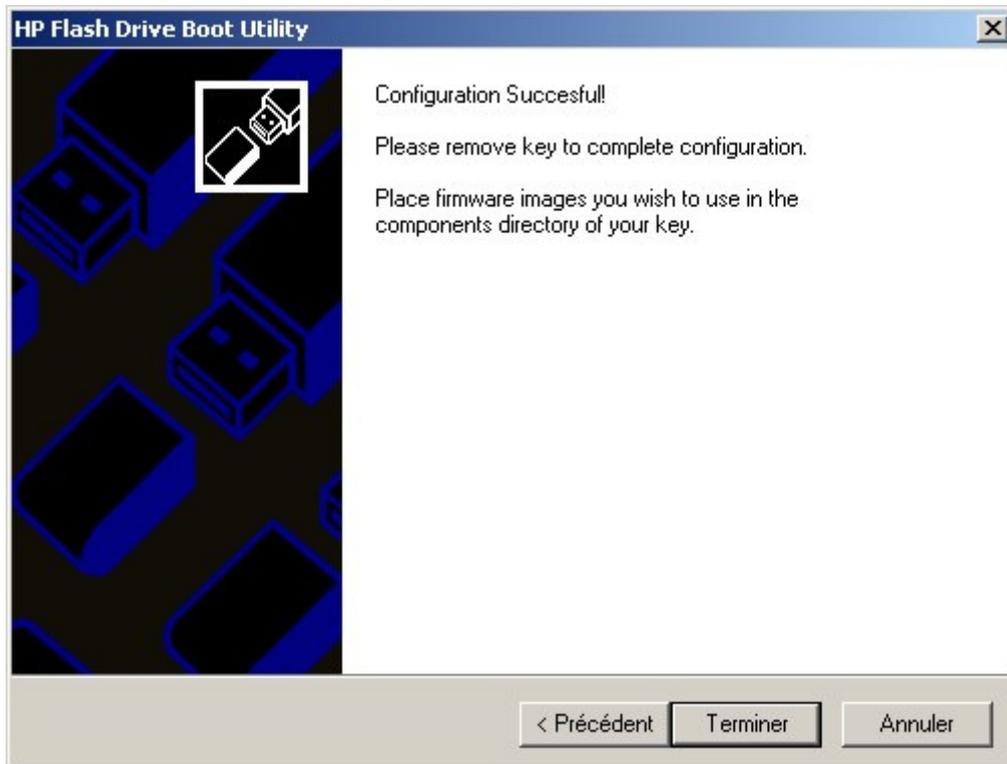
6. Browse your drive, select the file **result_SAP20.img** then click 'next'. The restoration procedure takes at least 5 minutes.

7. Click 'Finish'. The drive is disabled.

8. Unplug/plug the pen drive/Sd card reader then browse it.
9. Copy in the update files *fs.cramfs*, *image.bin*, *sbsl.bin* and *user.tar.gz*. If needed, you can also copy the file *update_only*.

3. Building the update pen drive/Sd card with Linux

Method #1

1. Extract the update package (MDI_PCK*.rar).
2. Open a Linux console.
3. Insert the pen drive/Sd card, type *dmesg* then press <enter>.
   → This command returns the name of the new detected device.
   → Here we will use sda.
4. Type *cat result_SAP20.img > /dev/sda* then press <enter>.
5. Unplug/plug the pen drive/Sd card reader then browse it.
6. Copy in the update files *fs.cramfs*, *image.bin*, *sbsl.bin* and *user.tar.gz*. If needed, you can also copy the file *update_only*.

Method #2

1. Open a Linux console.
2. Insert pen drive/Sd card, type 'dmesg' then press <enter>.
3. → This command returns the mount point like /dev/sda or /dev/sdb.
4. → Here we will use '/dev/sda'.
5. Type 'umount /dev/sda' to unmount all mount points like /dev/sda
6. Type cat *result_SAP20.img > /dev/sda* to dump the image.
7. Or
8. Type dd if= *result_SAP20.img* of=/dev/sda
9. Or
10. Type
    FILENAME= *result_SAP20.img*
    FILESIZE=$(stat -c%s "$FILENAME")
    dd if= *result_SAP20.img* of=/dev/sda bs=1M count=$FILESIZE
11. Unplug/plug the pen drive/Sd card reader then browse it.
12. Copy in the update files *fs.cramfs*, *image.bin*, *sbsl.bin* and *user.tar.gz*. If needed, you can also copy the file *update_only*.

4. Updating the device

1. The device must be OFF.
2. Open a terminal to check the update procedure.
3. Connect the pen drive/Sd card to the C4D using the cable *CAB00028AB*.

4. Turn the device ON.
5. After 10-15 seconds you should see some debug on the terminal
   USB] starting update
   check serial number
   Serial number ok -> update
   updating kernel and filesystem
   …
6. Once updated, if you added the file *update_only* the device displays the message '*Login'*. Otherwise it reboots to perform the test part before displaying the message '*test finished, reboot and disconnect usb'*.
7. Unplug the pen drive/Sd card and power cycle the device.

⚠️   Some old pen drive or Sd card reader are not recognized by the C4D.

5. Update/test stages – Led status

1. Update and test

Step	Led 1	Led 2	Led 3	Led 4	Comment
1	ON and solid	OFF			Device is booting up
2	ON and solid	Blink alternately			Update is running
3	ON and solid	OFF			Update is finished (reboot)
4	ON and solid	Blink together			Tests are running
5	ON and solid	OFF	Blinks		Tests are finished

Note: Do a power cycle to reset the device.

2. Update only

Step	Led 1	Led 2	Led 3	Led 4	Comment
1	ON and solid		OFF		Device is booting up
2	ON and solid		Blink alternately		Update is running
3	ON and solid			OFF	Update is finished (reboot)

Note: Do a power cycle to reset the device.