



BSD300 Software Upgrade Procedure

Service Information Release Notes

BSD Model: 300
Revision: A
Date: 12 February 2018
Document Ref: DOC-S-0005

Document Revision History

Date	Version	Description	Author
12 February 2018	A	Compatible to Windows 10.	M.M.

This information is designed to assist the user install or upgrade existing BSD300 Software on a Windows PC. The software is compatible up to Windows 10.

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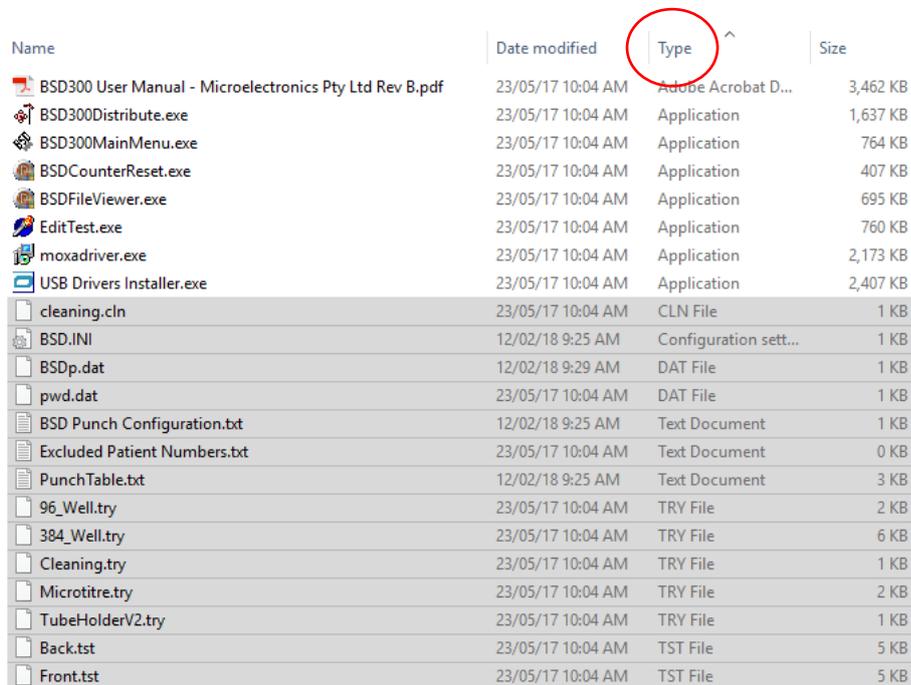
1. Backup Files

Before upgrading the BSD software it is recommended to make a **Backup** of your user files to prevent loss of user data.

Open Windows Explorer and search for the BSD300 folder. Highlight that folder, and in the columns to the right, click on the “**Type**” header at the top to sort all the files by type.

Select all the files **except** the *Applications, Drivers folder* and the *manual* (as shown below). Copy and paste these files to another location so that they can be copied back after the installation, if needed.

Click on the ‘Type’ bar to sort files by type.



Name	Date modified	Type	Size
BSD300 User Manual - Microelectronics Pty Ltd Rev B.pdf	23/05/17 10:04 AM	Adobe Acrobat D...	3,462 KB
BSD300Distribute.exe	23/05/17 10:04 AM	Application	1,637 KB
BSD300MainMenu.exe	23/05/17 10:04 AM	Application	764 KB
BSDCounterReset.exe	23/05/17 10:04 AM	Application	407 KB
BSDFileViewer.exe	23/05/17 10:04 AM	Application	695 KB
EditTest.exe	23/05/17 10:04 AM	Application	760 KB
moxadriver.exe	23/05/17 10:04 AM	Application	2,173 KB
USB Drivers Installer.exe	23/05/17 10:04 AM	Application	2,407 KB
cleaning.cln	23/05/17 10:04 AM	CLN File	1 KB
BSD.INI	12/02/18 9:25 AM	Configuration sett...	1 KB
BSDp.dat	12/02/18 9:29 AM	DAT File	1 KB
pwd.dat	23/05/17 10:04 AM	DAT File	1 KB
BSD Punch Configuration.txt	12/02/18 9:25 AM	Text Document	1 KB
Excluded Patient Numbers.txt	23/05/17 10:04 AM	Text Document	0 KB
PunchTable.txt	12/02/18 9:25 AM	Text Document	3 KB
96_Well.try	23/05/17 10:04 AM	TRY File	2 KB
384_Well.try	23/05/17 10:04 AM	TRY File	6 KB
Cleaning.try	23/05/17 10:04 AM	TRY File	1 KB
Microtitre.try	23/05/17 10:04 AM	TRY File	2 KB
TubeHolderV2.try	23/05/17 10:04 AM	TRY File	1 KB
Back.tst	23/05/17 10:04 AM	TST File	5 KB
Front.tst	23/05/17 10:04 AM	TST File	5 KB

Figure 1: Copy and backup files in current BSD folder

2. Uninstall the old BSD software

Uninstall any previous version of BSD software.

Windows 10

Click on the Windows icon on the bottom corner on your desktop. Click on the Settings icon (cogwheel) > Apps > Scroll down until you find the BSD300 software > Uninstall.

Windows 7, 8 & Vista

Click on your Windows start button on the lower corner of your desktop, find *Control Panel*, then *Programs – Uninstall a program*. Select your BSD software from the list and click *Uninstall*.

3. Installing the newer version of BSD software

3.1 Run setup.exe

Insert supplied BSD DVD installation disk or USB flash drive.

Select **Open folder to view files** when prompted, or open Windows Explorer and browse to your DVD (or USB) drive folder.

Name	Date modified	Type	Size
BSD300	23/05/17 10:04 AM	File folder	
0x0409.ini	23/05/17 10:04 AM	Configuration sett...	6 KB
BSD300.msi	23/05/17 10:04 AM	Windows Installer ...	671 KB
instmsia.exe	23/05/17 10:04 AM	Application	1,669 KB
instmsiw.exe	23/05/17 10:04 AM	Application	1,780 KB
setup.exe	23/05/17 10:04 AM	Application	304 KB
Setup.ini	23/05/17 10:04 AM	Configuration sett...	2 KB

Figure 2: Run setup.exe to install program

Find BSD application file **setup.exe** and double click to start the installation.

Windows 7, 8 & Vista

Click once to highlight the **setup.exe** file, then right-click to select "**Run as Administrator**". Select "Next" in installation wizard and follow instructions.

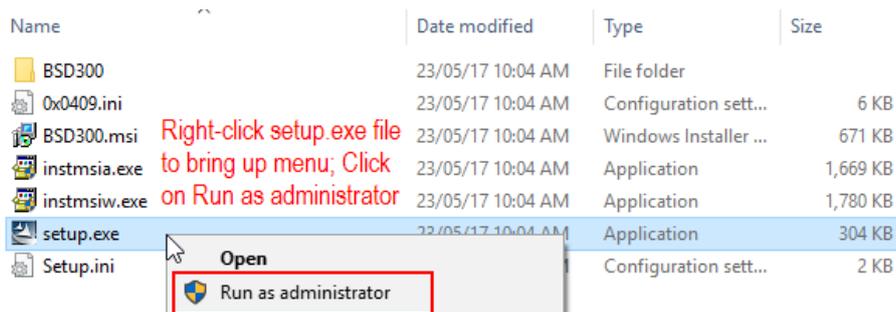


Figure 3: For earlier versions of Windows, choose Run as administrator

Follow screen instructions to install drivers.

3.2 Run the BSD software

After installation is completed, run the BSD software from your desktop screen.

A screenshot of a 'Login' window titled 'BSD Robotics Sample Distribution Program'. The window prompts the user to enter their username and password. The 'Username' field contains 'Administrator' and the 'Password' field contains '***** admin'. There are 'Cancel' and 'Continue' buttons at the bottom.

Log in as

Username: **Administrator**

Password: **admin**

(Note: they are case sensitive)

3.3 Entering punch sizes

If a screen prompts to enter Punch Size, type in the smallest punch size on the left field, and the larger punch size on the right field.

You can find your punch sizes on the delivery record that came with your puncher. Alternatively, you can find the punch sizes in the backup files (see Figure 1) in the file named '*BSD Punch Configuration.txt*' if you scroll right to the bottom of the text file.

A screenshot of a 'Punch size information' window titled 'Punch Size Configuration'. The window prompts the user to enter the punch sizes installed on the instrument. It shows two input fields: 'Left side punch' with the value '3.2' and 'Right side punch' with the value '4.7'. A message below the fields states: 'Left punch size must be less then or equal to right side. Please change the punch sizes.' There is a 'Continue' button at the bottom.

Figure 4: Enter punch sizes if prompted.

4. Configuring the COM ports

This section explains how to set up COM ports for the instrument and for the barcode reader ports. If performing a software upgrade, the existing port numbers should already be displayed in the **Configuration File**.

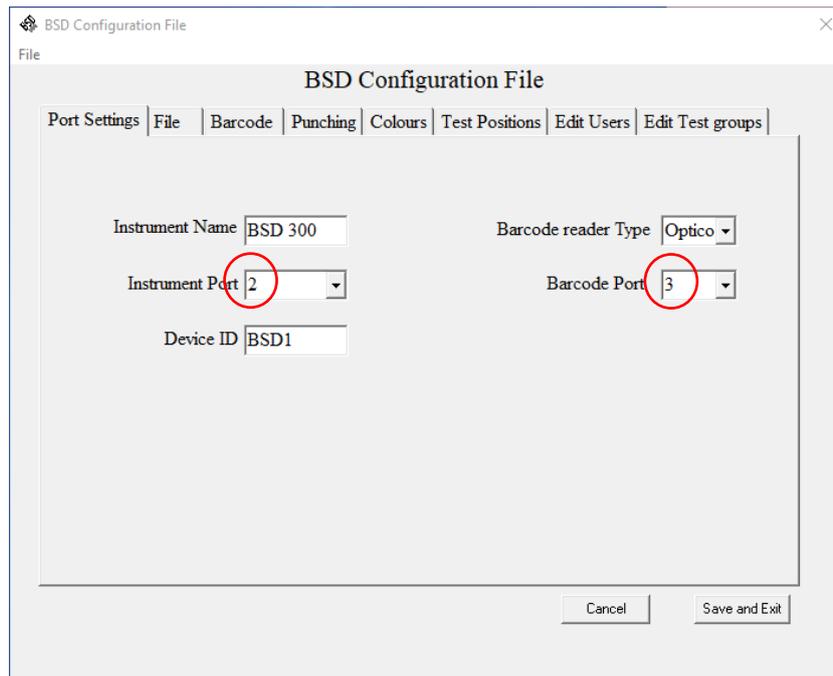


Figure 5: Instrument and Barcode Ports assigned

Stop reading here if COM ports have been assigned and working correctly.

4.1 Configuring the COM Ports

Select **Configure System** from the **Main Menu**.

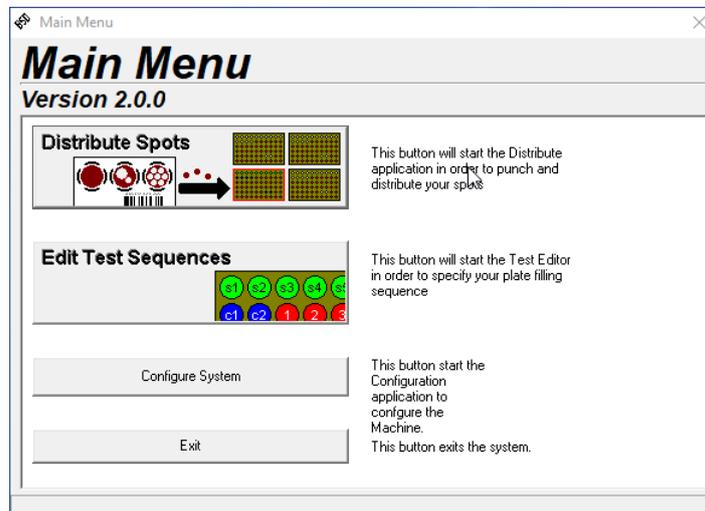


Figure 6: Main Menu

This will bring up the configuration screen.

If it is a new install, the Instrument Port and Barcode Port will most likely be "0".

Note: "0" means it is disabled.

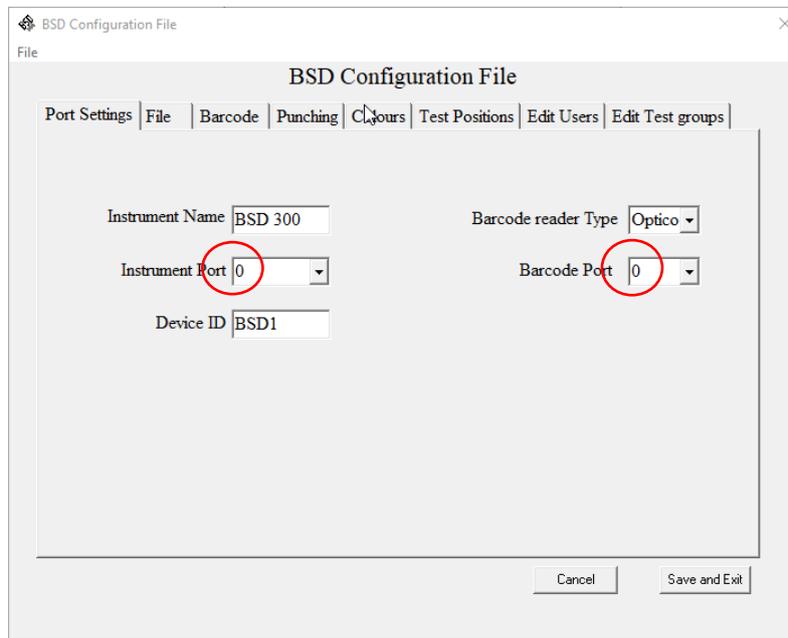


Figure 7: Configuration File

4.2 Open Windows Device Manager

You will need to find out your COM ports for the **Instrument** and **Barcode Reader** by using Windows **Device Manager**.

Click on the **Windows key + 'R'**, this will bring up the run menu.

Type '**devmgmt.msc**' and enter. This will start device manager.

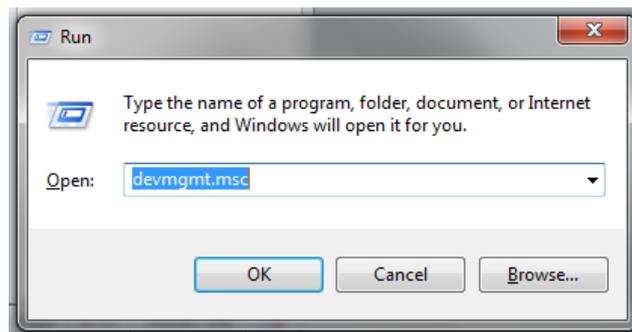


Figure 8: Open Device Manager

When device manager has opened, expand the '**Ports**' (COM & LPT) section by clicking on the little triangle to the left.

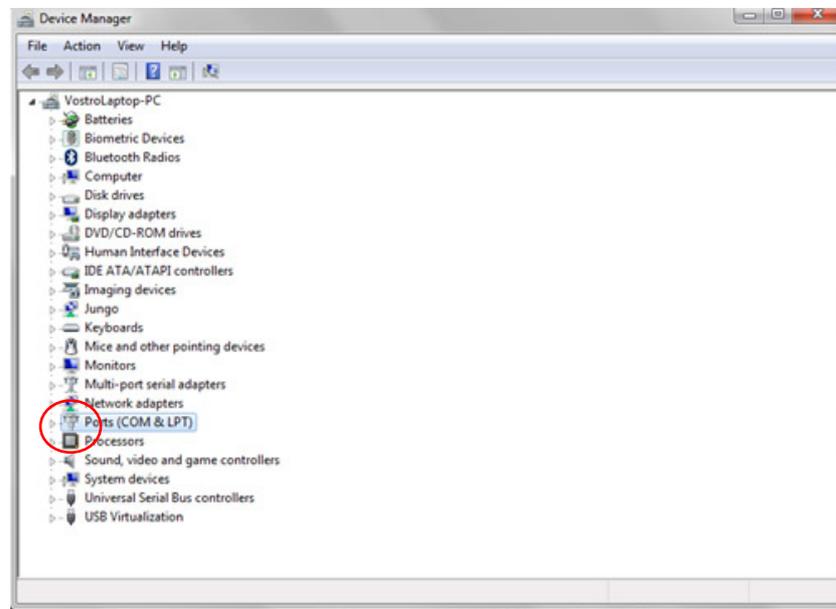


Figure 9: Locate 'Ports' from the list and expand the triangle to show assigned ports.

4.3 Find port numbers

The **Instrument port** can be found next to the **ATEN USB to Serial Bridge** port (Figure 10).

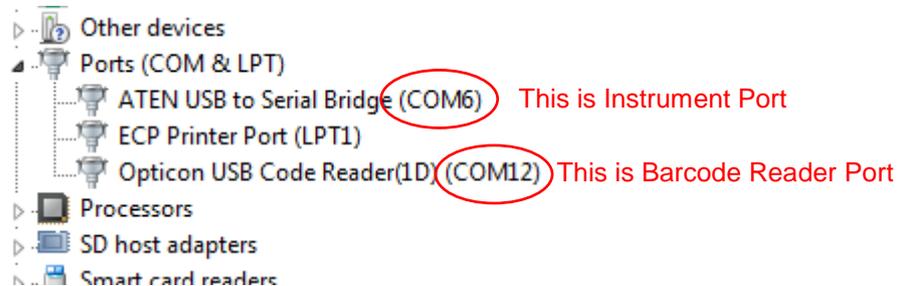


Figure 10: Note down the COM port numbers

The **Barcode Reader port** can be found next to the **Opticon USB Code Reader** port.

4.4 Enter COM ports into Configuration File

Once you have found the ports, go back to **Main Menu > Configure System** and choose correct port numbers for the Instrument and Barcode Reader.

5. Check Output File Location

One important thing to check are the file paths in the Configuration File. Make sure they match the actual locations of folders on the hard drive.

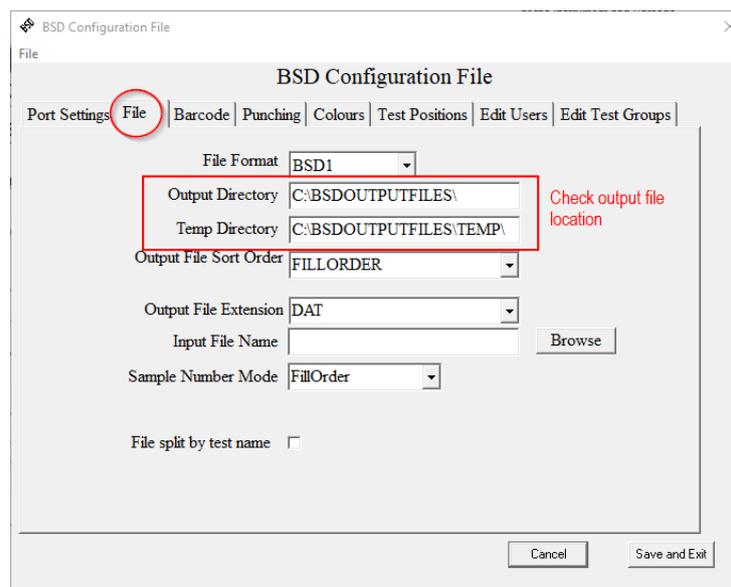


Figure 11: Check Output Directory matches local drive folders

Note: Having conflicting Output file locations may result in an error message when attempting to click on the Distribute Spots program from the Main Menu.

6. TROUBLESHOOTING

IMPORTANT: The BSD software can only use **COM ports 1 through 8**. If your assigned COM port is greater than 8, you will need to **manually re-assign the port number to a value between 1 and 8**.

6.1 Re-assigning COM port numbers

1. Right-click on the port that needs to be changed (e.g. COM12 for Barcode Reader), and then select '**Properties**'.

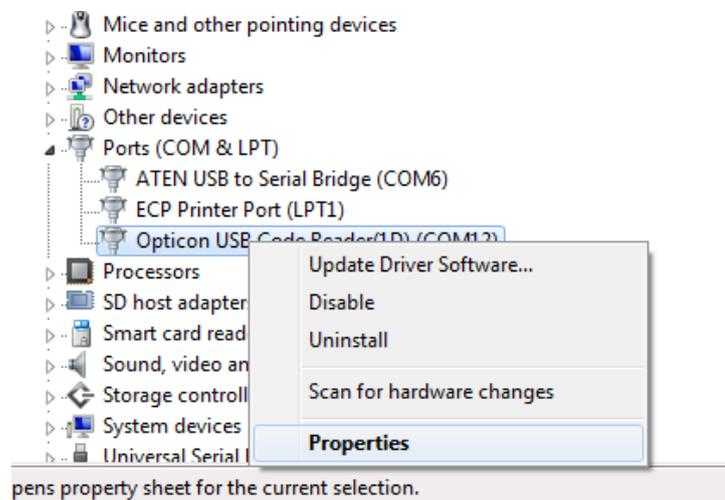


Figure 12: Select the COM port to change and click Properties

2. Once in Ports Configuration, click on the **Port Setting** button.

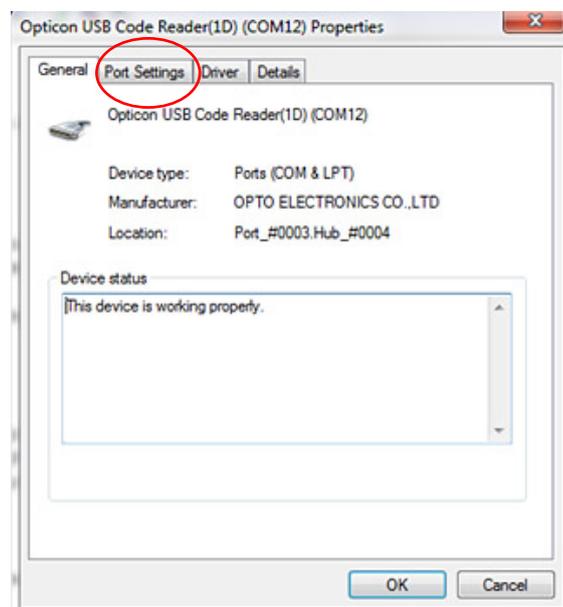


Figure 13: Port Setting tab

- In 'Port Settings' window, select the 'Advanced' button.

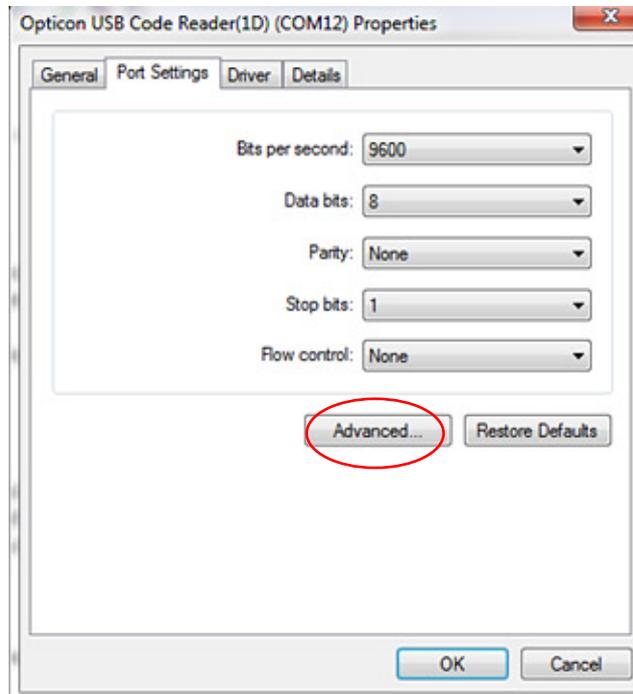


Figure 14: Select Advanced button

- Select 'COM Port Number' drop down menu by clicking the little black triangle to expand the menu.

Select a port that is in the range of 1 through 8, in this case 'COM4'. If no free ports are available, see next Section 6.2).

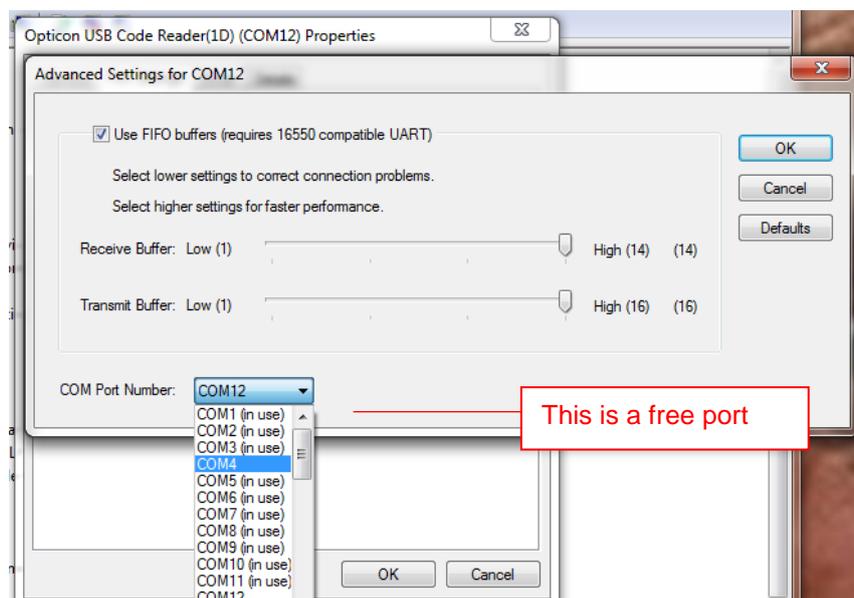


Figure 15: Look for a free port, such as COM4 (in the example above).

Note: Figure 15 is an example only. Your computer may show a different port number that is free.

5. Back in **Device Manager**, the newly re-assigned port number will show up next to the driver.

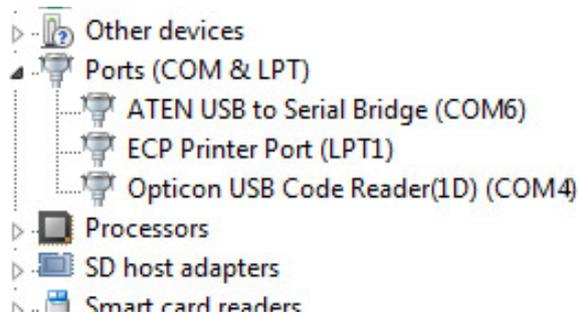


Figure 16: COM4 has been assigned to Barcode Reader port

6. Go back to the Configuration File, and select the appropriate COM port next to the Instrument Port.

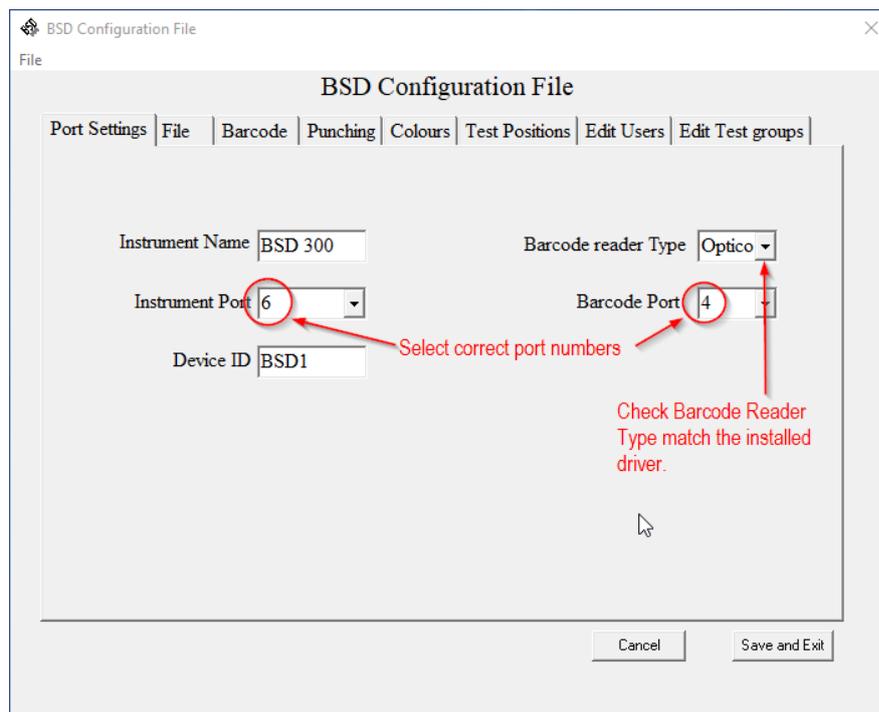


Figure 17: Configuration File

Note: Make sure the Barcode reader type is the same as the model supplied. If not, change from the drop down menu. Your port numbers will be different to the example given above.

Setup is now complete.

6.2 If there are no free COM ports

If (on rare occasions) all ports have been assigned to other devices, you will need to free one up, so we can assign one to a COM port number **between 1 and 8**.

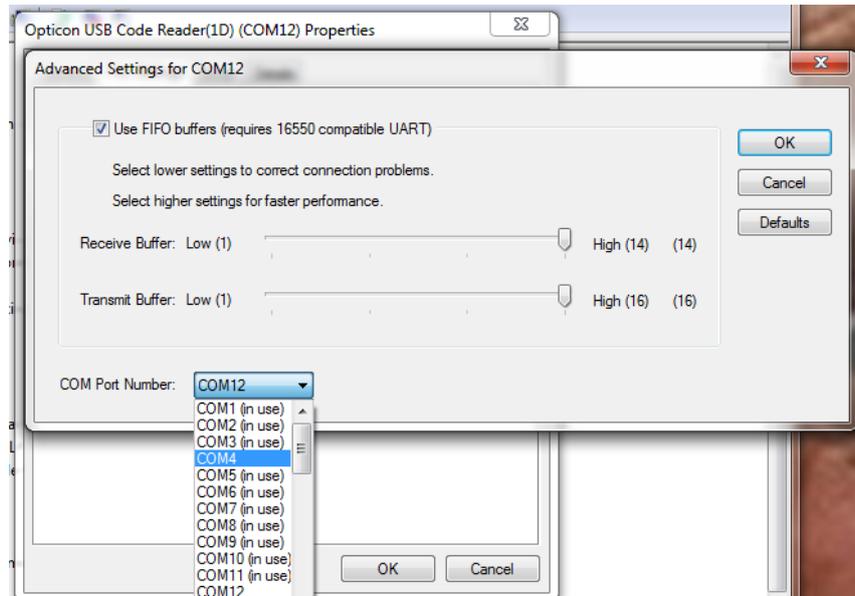


Figure 18: If COM4 in the above example is “in use”, then there are no free ports between COM1 to 8.

How to delete hidden ports in Windows 7

We will need to manually delete devices using a COM port between 1 – 8 by following the instructions below.

1. First close Device Manager.
2. Then open **Command Prompt** (in Windows 7 it must be run as administrator).

Do this by click on the Windows icon start menu and start typing in "Command" until the black C:\ icon appears.

Right-click over the Command Prompt icon and select **Run as Administrator**. If you have some other version of Windows, you may not have to run as admin.

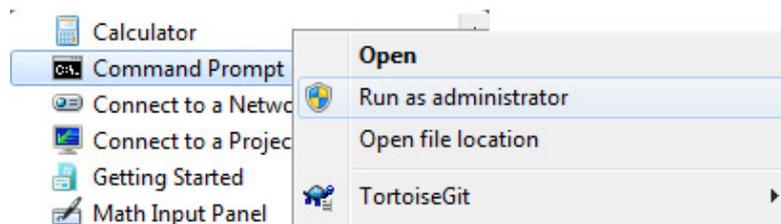


Figure 19: Run Command Prompt

3. Now type in `set devmgr_show_nonpresent_devices=1` (which is the command to show ghost devices) and press **Enter**.

Next line, type `start devmgmt.msc` (which starts up the device manager) and **Enter**.

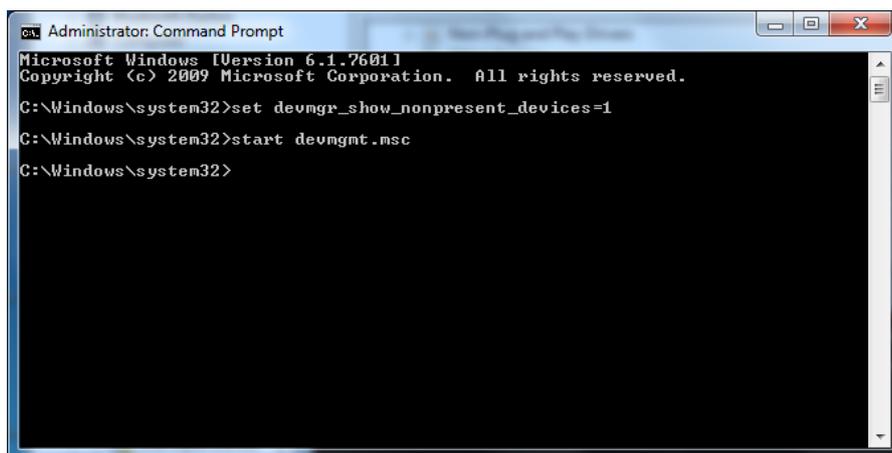


Figure 20: Type in commands

4. Close the command prompt window.
5. With device manager open, select **Show hidden devices** from the **View** menu.

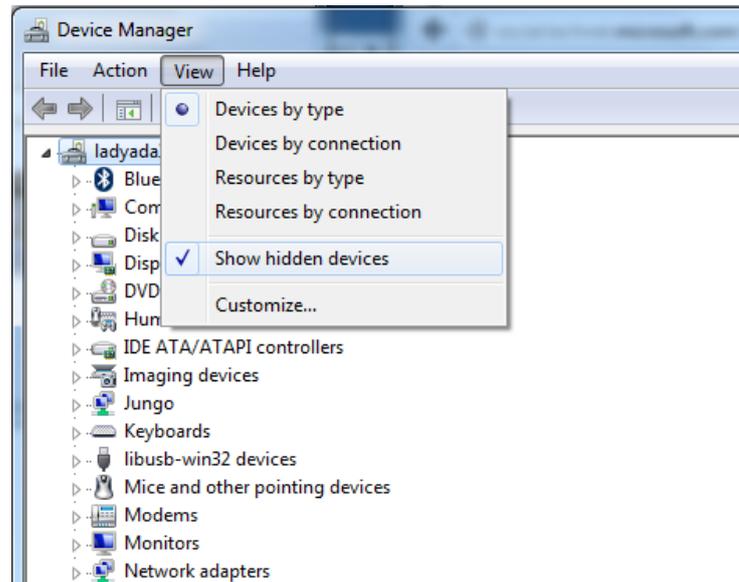


Figure 21: Show hidden devices

When you open the COM port list it will now show all COM ports including the hidden ones. This will show the hidden COM ports and what is/has been using them.

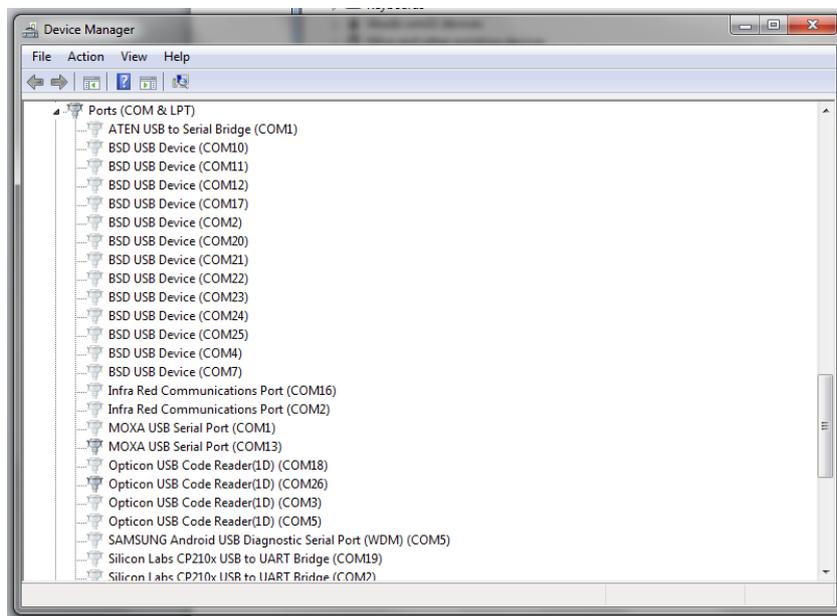


Figure 22: Expand the Ports label.

6. Select a device on a COM port between 1 – 8 that you know is not needed anymore and uninstall it from the list.

In the example below, we have selected the device on COM2 and uninstalled it.

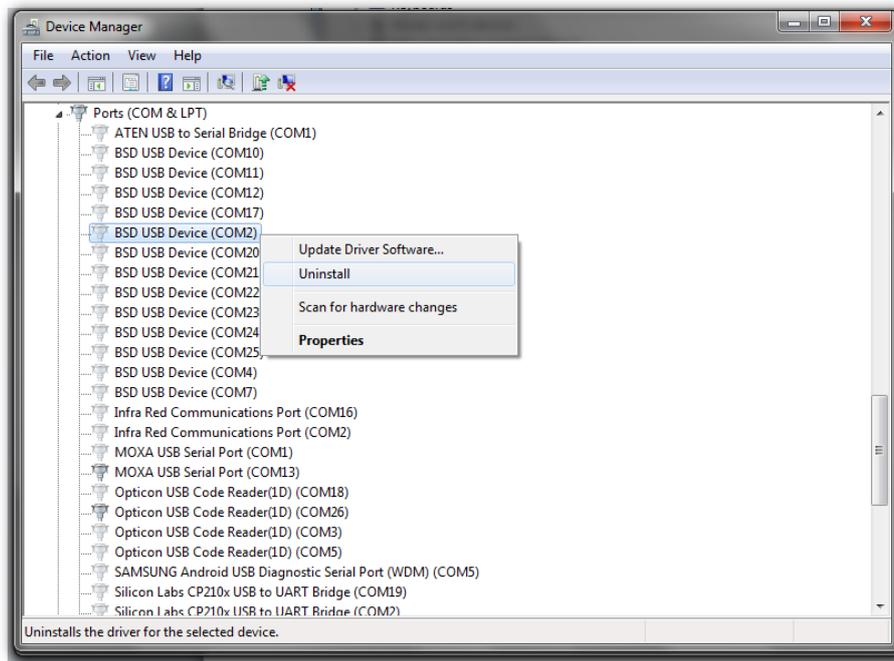


Figure 23: Uninstall a port.

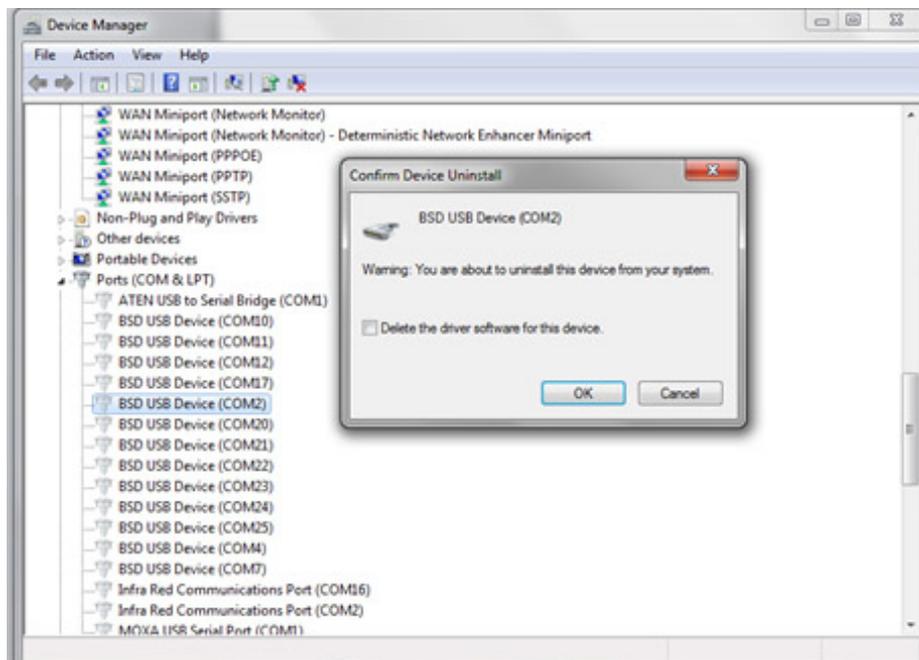


Figure 24

NOTE: It is usually unnecessary to delete driver software, so leave it unchecked. Press Ok to continue.

NOTE: You will need to do this to all devices using the COM port that you need, just repeat the previous steps until the chosen COM port is not being used at all.

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7. Now that we have freed up your selected COM port you can re-assign it to another device.

Go back to Section 6.1 of this document and follow instructions to re-assign that port number to a device (e.g. Barcode Reader port).

7. Regional Settings

If you are getting an error message when trying to click on Distribute Spots Menu, please check Output file directories (see Section 5), or your Regional settings Decimal format.

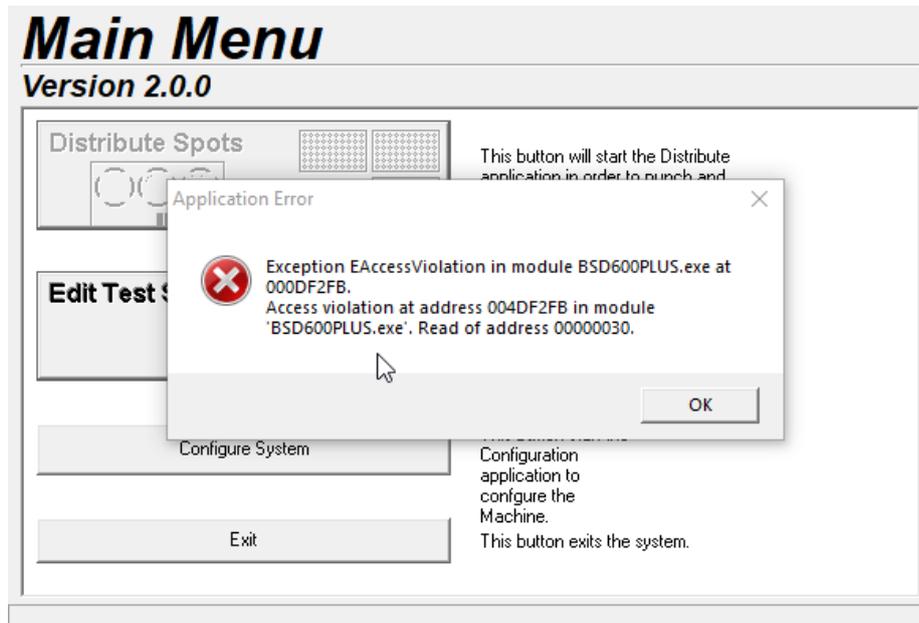


Figure 26: Error message when trying to click on Distribute Spots.

The BSD software only recognises the Decimal symbol as '.' (full stop) and not a ',' (comma).

If your Windows regional settings have been set to use a comma symbol, it will cause an error message to appear.

Solution:

1. Uninstall BSD300 application.
2. Delete all BSD folders from the C: drive
3. In Windows, open *Control Panel > Clock, Language and Region > Change date, time or number formats > Additional Settings*.
4. Change the decimal symbol from , to .
5. Restart the PC
6. Install the BSD software and enter the punch sizes using a . for the decimal place.

Adjust your computer's settings

View by: Category ▾

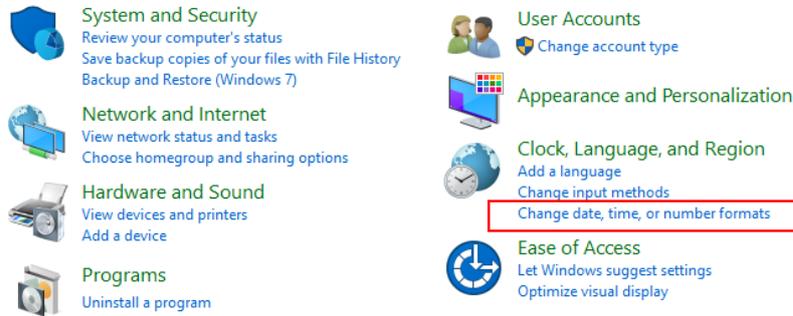


Figure 27: Control Panel

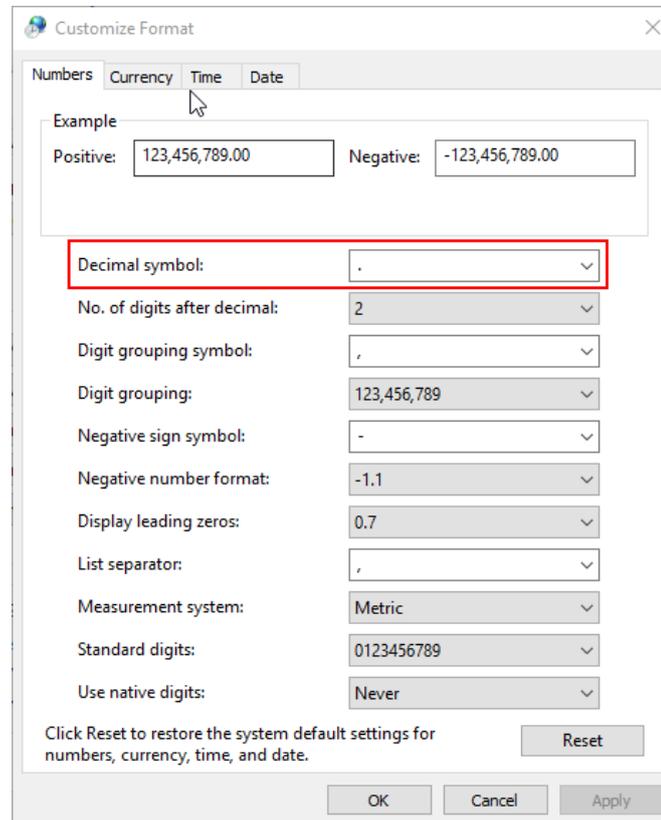


Figure 28: Change Decimal symbol