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## Adding USB devices through COM port to virtual machine

- Parallels Desktop for Mac Standard Edition
- Parallels Desktop for Mac Pro Edition
- Parallels Desktop for Mac Business Edition

## Symptoms

- I have a complicated device (like multiport controller, radio transmitter, JTAG etc.) and I am trying to connect it to Windows virtual machine.
- I want to debug my virtual machine and I need to send debug output via COM port to the text file.

## Resolution

1. Open virtual machine's **configuration menu** -> go to **Hardware** tab -> click on '+' -> add **Serial Port**.

2. Now you need to choose a source for COM port:

**NOTE:** Select port before starting virtual machine.

**NOTE:** Bluetooth supports many "profiles" for doing various things (phone headset, address book syncing, file exchange, etc.) One of these profiles is the "COM" profile and is a simple serial port: raw binary data transmit and receive. That's the profile these Bluetooth serial adapters speak. All Bluetooth stacks on computers appear to support the COM profile.

- **Real serial ports.** Select this option to connect the virtual machine's serial port to the serial port of the physical computer.
- Sockets. Select this option to create and connect the virtual machine's serial port to a socket of the physical computer. Socket is able to work in two modes: as a server or as a client.
- Choose an output file... Select this option to connect the virtual machine's serial port to an output file. You will be able to locate the file in the next window.
- 3. Launch the virtual machine and configure device in guest operating system. For Windows please hit Win(Cmd)+R hotkey -> in **Run** window type **devmgmt.msc** and hit Enter/Return.

4. In the **Device Manager** window please expand **Ports (COM & LPT)** menu -> choose desired COM port -> right-click on it and enter **Properties**.

5. Here you may configure additional settings of COM port.

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