# Windows Users

### Known issues with Bluetooth communication with Windows operating system(s)

The Intelligent NXT Brick can only communicate with Widcomm<sup>®</sup> or Microsoft<sup>®</sup> stack controllers (drivers). Some PC's have other brand of drivers. You may still be able to connect with your Bluetooth radio to the Intelligent NXT Brick but you may still have communication issues.

If you are having trouble establishing a connection and you have connected before; On the Intelligent NXT Brick go to Bluetooth settings and open your contacts and then delete them. Sometimes Bluetooth doesn't close the connection port properly, future connections are affected by this. Deleting the connections and reassigning them proves to work in most cases.

If you can establish a connection between a PC and your Intelligent NXT Brick, but not communicate with it, please follow this guide to check the Bluetooth Driver in the Device manager if it is Widcomm or Microsoft stack based.

#### **Device manager**

Right Click on "My Computer" choose properties / navigate to device manager. (Consult your operating system guide if you are unsure.)

Here's another way to open Device Manager: Click the Start button. In the search box, type Device Manager, and then, in the list of results, click Device Manager

To identify the Bluetooth driver:

Find the Bluetooth entry in the Device manager, right click for properties. You should see Microsoft or Widcomm<sup>®</sup> as the driver provider.

🚱 🖃 🖸 🧭 👋 🐼 Inbox - Microsoft O	Microsoft Bluetooth Enumerator Properties		
Device Manager			
File Action View Help	General Driver Details		
	Microsoft Bluetooth Enumerator		
E-B Bluetooth Radios	Driver Provider: Microsoft		
Generic Bluetooth Radio	Driver Date: 21,06,2006		
Microsoft Bluetooth Enumerator			
⊕-I Computer	Driver Version: 6.0.6001.18064		
Disk drives	Dicital Signer: microaeft windowe		
Display adapters	Digital Signer. Inicrosoft windows		
DVD/CD-ROM drives			
Uman Interface Devices	Driver Details To view details about the driver files		
IEEE 1394 Bus host controllers			
E — Keyboards E —	Update Driver To update the driver software for this device.		
Image: Mice and other pointing devices			
Monitors	Roll Back Driver If the device fails after updating the driver, roll		
• Setwork adapters	back to the previously installed driver.		
PCMCIA adapters			
Portable Devices	Disable Disables the selected device.		
⊕ ™ Ports (COM & LPT)			
Processors	To uninstall the driver (Advanced)		
Smart card readers	Uninstall		
iii - iii Sound, video and game controllers			
Ger Storage controllers			
😥 🚛 System devices	OK Cancel		
Universal Serial Bus controllers			

To find the Bluetooth radio:

Find the Bluetooth entry in the Device manager, right click for properties. You should see Cambridge Silicon Radio

Device Manager	Generic Bluetooth Radio Properties
hie Action View Help	General Advanced Driver Details
Bluetooth Radios Bluetooth Radio Bluetooth Radio Microsoft Bluetooth Radio Microsoft Bluetooth Radio Disk drives	Device type: Bluetooth Radios Manufacturer: Cambridge Silicon Radio Ltd. Location: Port_#0002.Hub_#0004
	This device is working property.
Processors Smart card readers Sound, video and game controllers Storage controllers System devices System Serial Bus controllers Universal Serial Bus controllers	OK Cancel

Generic Bluetooth Radio Properties
General Advanced Driver Details
Generic Bluetooth Radio
Property
Manufacturer 👻
Value
OK Cancel

# **Mac Users**

In most cases, your built in Bluetooth radio or Bluetooth dongle will work without any issues with the NXT 1.1 and above software. Newer Macbooks use a Broadcom<sup>®</sup> Bluetooth chip, this combination is known to cause issues between the Intelligent NXT Brick and the Mac. To check your Bluetooth hardware, follow this guide:

#### **Mac Hardware**

Click on "About this Mac" under the Apple icon on your toolbar.



#### Click "more info"



## Locate Bluetooth and highlight it.

David Cosimano's PowerBo	ok G4 15"		1/15/10 12:34 PM
Contents	Apple Bluetooth Softw	are Version: 2.1.9f10	in the second se
▼ Hardware	Hardware Settings:		
ATA	David Cosimano's	PowerBook G4 15":	
Audio (Built In)	Address:	00-0c-78-33-72-45	
Audio (Balit III)	Manufacturer:	Cambridge Silicon Ra	dio
Bluetooth	Firmware Vers	ion: 1958	
Diagnostics	Bluetooth Pow	er: On	
Disc Burning	biscoverable:	2 (52)	
Fibre Channel	HCI Revision	1958 (\$736)	
FireWire	I MP Version:	2 (52)	
Graphics (Displays	LMP Subversio	0: 1958 (\$7a6)	
Hardware PAID	Device Type (M	Aajor): Computer	
Hardware KAID	Device Type (0	omplete): Macintosh Portable	
Memory	Composite Cla	ss Of Device: 3670284 (\$38010c)	
PC Cards	Device Class ()	Major): 1 (\$1)	
PCI Cards	Device Class ()	Minor): 3 (\$3)	
Parallel SCSI	Service Class:	448 (\$1c0)	
Power	Requires Auth	entication: No	
Printer	Services:		N
Princers	Bluetooth File Tra	nsfer:	
SAS	Folder other d	evices can browse: ~/Public	
Serial-ATA	Requires Auth	entication: Yes	
USB	State:	Enabled	
▼ Network	Eolder for area	nange: oted items:	
AirPort Card	Requires Auth	entication: No	
Figure II	When other ite	ms are accented. Ask	
Firewall	When PIM item	is are accented: Ask	
Locations	When receiving	items: Prompt for each t	file
Modems	State:	Enabled	
Volumes	Devices (Paired, Favor	ites, etc):	
▼ Software	MacMonster:		
Applications	Name:	MacMonster	
Extensions	Address:	00-16-53-01-32-33	
Easts	Type:	Unknown	
Fonts	Services:	Dev B	
Frameworks	Paired:	NO	
Logs	Favorite:	165	
Managed Client	Connected:	Combridge Silicon Padia (52 Sh11	
Preference Panes	Lars:	camonoge smcoh Radio (55, 5011	·
Startup Items	Name:	Lars	
Universal Access	Address:	00-16-53-00-b2-f5	
Universal Process	Type:	Type: Unknown	
	Services:	Dev B	1
	Paired	No	1

Under "Manufacturer" you can see the brand of Bluetooth Radio.

If your Bluetooth chip in your Mac computer isn't compatible with the Intelligent NXT Brick, we suggest you use a dongle, preferably the supported Bluetooth dongle sold via our distributors on our website.

#### Dongles

There many brands of Bluetooth dongles available today, the Intelligent NXT Brick works best with dongles with the Cambridge Silicone Radio (CSR) chipset. In most cases this information is available on a products website. Generally you wouldn't see this on the packaging. If you have a Bluetooth dongle, you can find out by plugging it in the PC and finding the properties of the device.