and we would like your feedback

Potential U&L impact from TOS change

Bluetooth pairing in Windows and

Dual Boot Bluetooth LE (low energy)

Simpler method of pairing Bluetooth

Windows & Linux Mint/Ubuntu - Stop

having to Pair Devices - Not working

Dual boot Mint/Windows: Lost 8 GBs on

How to have triple boot Linux Mint 17

Cinnamon/Ubuntu 14.04/Windows 8?

Dual boot linux mint 17 with Windows 8

Triple boot, windows 10, ubuntu(want to overwrite with linux mint) and kali linux

grub menu not showing in dual boot

Linux Mint install (in dual boot mode)

doesn't boot in Windows 10 anymore

Simpler method of pairing Bluetooth

Choosing which OS to boot into before rebooting (Windows and Linux dual boot)

Devices for both Windows & Linux

Bluetooth Pairing on Dual Boot of

Windows & Linux Mint/Ubuntu - Stop

having to Pair Devices - Not working

Bluetooth seems to not be working

Square D Homeline AFCI breakers trip for all

When applying for a UK visa do they see all

Model Complexity and Constraints in

😰 Does Avianca really require you to speak

■ What's wrong with this pressure washer

U₁ Is there a way to stop bash from parsing zsh

{ } I use color with left color, right color and fill in tikz, but why are these two cases different?

m "Most of the trouble in the world is caused by

people wanting to be important." Is this a

Running multiple ICs with a single crystal

Why is f3 not as strong in some sicillian

My £5 advance purchase train ticket was

topological spaces up to homotopy?

溪 What are the written simplified chinese

Is the sum of the diagonal elements of a

the sum of its off-diagonal elements?

Is there a record of a rabid human attacking

When did they shift from apostrophizing the

characters for "if and only if"

patties other than eggs?

past tense to using an "e"?

another human?

Question feed

"changed": will they still honor that price and

(Why) Does Algebraic Topology only deal with

Frozen Stars - Alternate sources of electricity

Going over speed bumps in road bike safe?

What can I use for a binding agent in salmon

covariance matrix always equal or larger than

genuine TS Eliot quote?

Decide Contiguous Binary Tree

Why does dbeta not sum to 1?

get me there?

Was there ever a "flu season" in the Flintstones original TV show or in subsequent works?

Garuda Linux

Hot Network Questions

Delete string up to last slash

countries I have been to

Mathematical Modeling

Spanish to sit in an exit row?

φ Past-Memory Loop

appliances

properly in windows after dual booting to

Linux mint 17 & windows 10

Devices for both Windows & Linux

Bluetooth Pairing on Dual Boot of

Manjaro/Arch dual boot

device pairing

Windows side

Mark Middle Sidebar Advertising

on Imgur

Linked

Related

Ask Question

Why Teams?

Home

Unix & Linux

Bluetooth Pairing on Dual Boot of Windows & Linux Mint/Ubuntu -Stop having to Pair Devices

Asked 7 years, 3 months ago Modified 3 months ago Viewed 133k times

The Overflow Blog Get expert Kubernetes knowledge RANCHER ACADEMY Register for free Free on-demand expert training on Kubernetes How to land a job in climate tech Building golden paths for developers Report this ad (Ep. 567) When dual booting Windows 7/10 and Linux Mint/Ubuntu, you may find yourself having to repair your Bluetooth devices again and again. This will happen every time you switch OS. **Featured on Meta** New blog post from our CEO Prashanth: Community is the future of Al We are updating our Code of Conduct

191 Now, how do you prevent this? I'm answering my own question with the following guide, which has been tested on Ubuntu 14.4 and Linux Mint 17.2, 17.3 and now Linux Mint 18.x. 43 linux-mint windows dual-boot bluetooth

Share Improve this question Follow asked Jan 15, 2016 at 11:21 edited Jan 9, 2020 at 12:59 Mario Olivio Flores **4,693** • 4 • 11 • 12

5 I've done this a number of times and the steps are extremely tedious. I created this script to help speed

it up: github.com/LondonAppDev/dual-boot-bluetooth-pair - Mark Winterbottom Oct 1, 2017 at 11:00 2 For arch Linux users it's on the wiki wiki.archlinux.org/index.php/Bluetooth#Dual_boot_pairing Phani Rithvij Dec 19, 2020 at 11:07

Neat. Looks like whoever added that borrowed content from my answer below. Glad I can help people. - Mario Olivio Flores Dec 19, 2020 at 21:12

1 Yet another simple cli bt-dualboot --sync-all . Checkout: github.com/x2es/bt-dualboot - x'ES

@x'ES - Nicely done. I haven't had a chance to play with it, but will do so soon. - Mario Olivio Flores May 12, 2022 at 9:40

Sorted by: Highest score (default)

Add a comment

2 Answers

Why does this happen?

267 Basically, when you pair your device, your Bluetooth service generates a unique set of pairing keys. First, your computer stores the Bluetooth device's MAC address and pairing key. Second, your Bluetooth device stores your computer's MAC address and the matching key. This usually works fine, but the MAC address for your Bluetooth port will be the same on both Linux and Windows (it is set on the hardware level). Thus, when you re-pair the device in Windows or Linux and it generates a new key, that key overwrites the previously stored key on the Bluetooth

Bluetooth LE Devices: These may pair differently. I haven't investigated myself, but this may help <u>Dual Boot Bluetooth LE (low energy) device pairing</u>

How to fix

Using the instructions below, we'll first pair your Bluetooth devices with Ubuntu/Linux Mint, and then we'll pair Windows. Then we'll go back into our Linux system and copy the Windowsgenerated pairing key(s) into our Linux system.

- 1. Pair all devices w/ Mint/Ubuntu
- 2. Pair all devices w/ Windows
- 3. Copy your Windows pairing keys in one of two ways:

device. Windows overwrites the Linux key and vice versa.

• Use psexec -s -i regedit.exe from Windows (harder). You need psexec as normal regedit doesn't have enough permissions to show this values.

1. Go to "Device & Printers" in Control Panel and go to your Bluetooth device's

- properties. Then, in the Bluetooth section, you can find the unique identifier. Copy that (you will need it later). **Note:** on newer versions of windows the route to the device's properties is to go through Settings -> Bluetooth & devices -> Devices -> More devices and printer settings 2. Download PsExec from http://technet.microsoft.com/en-
- 3. Unzip the zip you downloaded and open a cmd window with elevated privileges. (Click the Start menu, search for cmd, then right-click the CMD and click "Run as
- Administrator".) 4. cd into the folder where you unzipped your download.
- 5. Run psexec -s -i regedit.exe
- 6. Navigate to find the keys at

us/sysinternals/bb897553.aspx.

- HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\BTHPORT\Parameter s\Keys. If there is no CurrentControlSet, try ControlSet001. 7. You should see a few keys labels with the MAC addresses - write down the MAC
- address associated with the unique identifier you copied before. **Note:** If there are **no keys visible** after pairing, you likely need to add permissions to read Keys\
- Use chntpw from your Linux distro (easier). Start in a terminal then:
 - 1. sudo apt-get install chntpw
 - 2. Mount your Windows system drive in read-write mode
 - 3. cd /[WindowsSystemDrive]/Windows/System32/config
 - 4. chntpw -e SYSTEM opens a console
 - 5. Run these commands in that console:
 - > cd CurrentControlSet\Services\BTHPORT\Parameters\Keys > # if there is no CurrentControlSet, then try ControlSet001 > # on Windows 7, "services" above is lowercased. # shows you your Bluetooth port's MAC address Node has 1 subkeys and 0 values
 - key name <aa1122334455> > cd aa1122334455 # cd into the folder # lists the existing devices' MAC addresses Node has 0 subkeys and 1 values [value if type DWOR size type value name 16 REG_BINARY <001f20eb4c9a> > hex 001f20eb4c9a
- The Mint/Ubuntu one won't need the spaces in-between. Ignore the :00000. 4. Go back to Linux (if not in Linux) and add our Windows key to our Linux config entries. Just

6. Make a note of which Bluetooth device MAC address matches which pairing key.

- note that the Bluetooth port's MAC address is formatted differently when moving from Windows to Linux - referenced as aa1122334455 in Windows in my example above. The Linux version will be in all caps and punctuated by ':' after every two characters - for example AA:11:22:33:44:55. Based on your version of Linux, you can do one of these: Before Mint 18/16.04 you could do this:
 - 1. sudo edit /var/lib/bluetooth/[MAC address of Bluetooth]/linkkeys [the
 - MAC address of Bluetooth] should be the only folder in that Bluetooth folder. 2. This file should look something like this:
 - [Bluetooth MAC] [Pairing key]

^ the XXs are the pairing key

- 3. Change the Linux pairing key to the Windows one, minus the spaces.
- In Mint 18 (and Ubuntu 16.04) you may have to do this: 1. Switch to root: su – (In more modern versions of Ubuntu, 'sudo -i')
 - 2. cd to your Bluetooth config location /var/lib/bluetooth/[bth port MAC addresses] 3. Here you'll find folders for each device you've paired with. The folder names being
 - the Bluetooth devices' MAC addresses and contain a single file info. In these files, you'll see the link key you need to replace with your Windows ones, like so: [LinkKev] Key=B9999999FFFFFFFF99999999FFFFF
- works! • Ubuntu, Mint, Arch:

5. Once updated, restart your Bluetooth service in one of the following ways, and then it

- sudo systemctl restart bluetooth
- Alternatively, reboot your machine into Linux. 6. Reboot into Windows - it works!

Share Improve this answer Follow

Josh C **105** • 4

edited Jan 16 at 15:24



answered Jan 15, 2016 at 11:21

[digits in pin] [0]

- using chntpw: After mounting your windows partition and doing all the chntpw stuff @Mario Flores did do ed "value name" in the chntpw terminal. Take the "Key=" in your bluetooth device's info file on Ubuntu and enter it like this in chntpw: ": XX XX XX XX XX" where XX is every 2 letters/numbers in the key. Then type s and it will be saved to the registry. Repeat if needed. – Sameer Puri Sep 17, 2016 at 3:07 🥕 5 should it be:
- HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\BTHPORT\Parameters (so HLKM) – TiloBunt Sep 18, 2016 at 0:44 By the way, if you've got a Bluetooth LE device, there will be a few more things to do and
- unix.stackexchange.com/questions/402488 may help you. Frederick Zhang May 20, 2018 at 11:39 4 In Windows 10, you'll find your keys at "Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\BTHPORT\Parameters\Keys"
- . Thomas Aug 16, 2018 at 22:27 Note, if you're doing it from Linux, but target recent Windows 10, the correct path is \ControlSet001\Services\BTHPORT\Parameters\Keys . - Dalibor Karlović Aug 2, 2019 at

Show 32 more comments

8:48

Get expert Kubernetes knowledge RANCHER ACADEMY Register for free Free on-demand expert training on Kubernetes Report this ad Firstly, many answers advise replacing the key in [linkKey] section of the /var/lib/bluetooth/<ADAPTOR_MAC_ADDRESS>/<DEVICE_MAC_ADDRESS>/info file. This section

now seems to be called [LongTermKey]. Also, [LocalSignatureKey] seems to now be [IdentityResolvingKey]. Some answers only mention changing the key in [linkKey], but you also need Enc, Ediv and Rand entries and the key for [IdentityResolvingKey]. Secondly, the device mac address may not be constant. In the case of my Logitech G604 it increments by one each time I pair. I updated these scripts here to resolve this.

Instructions

- 1. Boot into Linux and pair bluetooth device(s). You'll need the newly generated info and attributes files in
- /var/lib/bluetooth/<ADAPTOR_MAC_ADDRESS>/<DEVICE_MAC_ADDRESS>/.
- 2. Reboot into Windows and pair bluetooth device(s). 3. Download PSExec and run the following command from a Command Prompt running in Administator mode:
- PsExec64.exe -s -i regedit /e C:\BTKeys.reg HKEY_LOCAL_MACHINE\SYSTEM\ControlSet(
- 4. Copy the C:\BTKeys.reg file to a USB key (or leave on C: drive if it's accessible from the Linux OS).
- 5. Turn off bluetooth device(s) and boot back into Linux. Don't pair the device again in Linux. It might generate a new mac address, which will break the Windows pairing. (I don't know if this is normal, but it's what happens with my Logitech G604).
- 6. Copy the BTKeys.reg file to your Linux filesystem. 7. Run clean_reg_file.py --file_path BTKeys.reg --output clean.reg to clean the file
- (converts encoding to UTF8 and strips quotation marks). 8. Run bluetooth_fix.py --reg_path clean.reg. 9. From a terminal with sudo, navigate to /var/lib/bluetooth/<ADAPTOR_MAC_ADDRESS>/.
- 11. Copy info and attributes from the old mac address directory to the new one. 12. Open /var/lib/bluetooth/<ADAPTOR_MAC>/<NEW_DEVICE_MAC>/info and modify the values as per output from step 8.

10. Make a new directory corresponding to the device mac address from BTKeys.reg.

Share Improve this answer Follow

13. Restart bluetooth with sudo systematl restart bluetooth.

Add a comment Highly active question. Earn 10 reputation (not counting the association bonus) in order to answer this

answered Apr 20, 2021 at 21:43

Gordon Wells

181 3

Not the answer you're looking for? Browse other questions tagged linux-mint windows dual-boot bluetooth or ask your own question.

question. The reputation requirement helps protect this question from spam and non-answer activity.

UNIX & LINUX COMPANY Tour Stack Overflow Help Teams Chat Advertising Collectives Contact Feedback **Talent**

This site is not affiliated with Linus Torvalds or The Open Group in any way.

Cookie Policy

Linux is a registered trademark of Linus Torvalds. UNIX is a registered trademark of The Open Group.

Technology Culture & recreation Life & arts Science Professional Business API Data

Blog Facebook Twitter LinkedIn Instagram

STACK EXCHANGE NETWORK

Press Legal Privacy Policy Terms of Service Cookie Settings