## NAME

hcitool − Configure Bluetooth connections

## SYNOPSIS

**hcitool** −h

**hcitool** *COMMAND* −−help

**hcitool** [−i *hciX*] [*COMMAND* [*PARAMETERS*]]

## DESCRIPTION

**hcitool(1)** is used to configure Bluetooth connections and send some special command to Bluetooth devices. If no **command** is given, or if the option **−h** is used, *hcitool* prints some usage information and exits.

## OPTIONS

**−i** <*hciX*>
The command is applied to device *hciX*, which must be the name of an installed Bluetooth device. If not specified, the command will be sent to the first available Bluetooth device.

**−h** Gives a list of possible commands

## COMMANDS

**dev** Display local devices

**inq** Inquire remote devices. For each discovered device, Bluetooth device address, clock offset and class are printed.

**scan** Inquire remote devices. For each discovered device, device name are printed.

**name** <*bdaddr*>
Print device name of remote device with Bluetooth address *bdaddr*.

**info** <*bdaddr*>
Print device name, version and supported features of remote device with Bluetooth address *bdaddr*.

**spinq** Start periodic inquiry process. No inquiry results are printed.

**epinq** Exit periodic inquiry process.

**cmd** <*ogf*> <*ocf*> **[***parameters***]**
Submit an arbitrary HCI command to local device. *ogf*, *ocf* and parameters are hexadecimal bytes.

**con** Display active baseband connections

**cc [**−−*role*=**c**|**p] [**−−*pkt−type*=<*ptype*>**]** <*bdaddr*>
Create baseband connection to remote device with Bluetooth address *bdaddr*.

Option **−−pkt−type** specifies a list of allowed packet types. <*ptype*> is a comma−separated list of packet types, where the possible packet types are **DM1**, **DM3**, **DM5**, **DH1**, **DH3**, **DH5**, **HV1**, **HV2**, **HV3**. Default is to allow all packet types.

Option **−−role** can have value **c** (do not allow role switch, stay central) or **p** (allow role switch, become peripheral if the peer asks to become central). Default is **c**.

**dc** <*bdaddr*> **[***reason***]**
Delete baseband connection from remote device with Bluetooth address *bdaddr*.

The reason can be one of the Bluetooth HCI error codes. Default is **19** for user ended connections. The value must be given in decimal.

**sr** <*bdaddr*> <*role*>
Switch role for the baseband connection from the remote device to **central** or **peripheral**.

**cpt** <*bdaddr*> <*ptypes*>
Change packet types for baseband connection to device with Bluetooth address *bdaddr*. *ptypes* is a comma−separated list of packet types, where the possible packet types are **DM1**, **DM3**, **DM5**, **DH1**, **DH3**, **DH5**, **HV1**, **HV2**, **HV3**.

**rssi** <*bdaddr*>
Display received signal strength information for the connection to the device with Bluetooth address *bdaddr*.

**lq** <*bdaddr*>
Display link quality for the connection to the device with Bluetooth address *bdaddr*.

**tpl** <*bdaddr*> **[***type***]**
Display transmit power level for the connection to the device with Bluetooth address *bdaddr*.

The *type* can be **0** for the current transmit power level (which is default) or **1** for the maximum transmit power level.

**afh** <*bdaddr*>
Display AFH channel map for the connection to the device with Bluetooth address *bdaddr*.

**lp** <*bdaddr*> **[***value***]**
With no value, displays link policy settings for the connection to the device with Bluetooth address *bdaddr*.

If *value* is given, sets the link policy settings for that connection to *value*. Possible values are **RSWITCH**, **HOLD**, **SNIFF** and **PARK**.

**lst** <*bdaddr*> **[***value***]**
With no value, displays link supervision timeout for the connection to the device with Bluetooth address *bdaddr*.

If *value* is given, sets the link supervision timeout for that connection to *value* slots, or to infinite if value is 0.

**auth** <*bdaddr*>
Request authentication for the device with Bluetooth address *bdaddr*.

**enc** <*bdaddr*> **[***encrypt***]**
**enable** or **disable** the encryption for the device with Bluetooth address *bdaddr*.

**key** <*bdaddr*>
Change the connection link key for the device with Bluetooth address *bdaddr*.

**clkoff** <*bdaddr*>
Read the clock offset for the device with Bluetooth address *bdaddr*.

**clock [***bdaddr***] [***clock***]**
Read the clock for the device with Bluetooth address *bdaddr*.

The *clock* can be **0** for the local clock or **1** for the piconet clock (which is default).

**lescan [**−−*privacy***] [**−−*passive***] [**−−*acceptlist***] [**−−*discovery*=**g**|**l**] [**−−*duplicates***]**
Start LE scan

**leinfo [**−−*static***] [**−−*random***]** <*bdaddr*>
Get LE remote information

**lealadd [**−−*random***]** <*bdaddr*>
Add device to LE Accept List

**lealrm** <*bdaddr*>
Remove device from LE Accept List

**lealsz** Read size of LE Accept List

**lealclr** Clear LE Accept List

**lerladd [**−−*local_irk*] [−−*peer_irk*] [−−*random*] <*bdaddr*>
Add device to LE Resolving List

**lerlrm** <*bdaddr*>
Remove device from LE Resolving List

**lerlclr** Clear LE Resolving List

**lerlsz** Read size of LE Resolving List

**lerlon** Enable LE Address Resolution

**lerloff** Disable LE Address Resolution

**lecc [**−−*static*] [−−*random*] <*bdaddr*> | [−−*acceptlist*]
Create a LE Connection

**ledc** <*handle*> [*reason*]
Disconnect a LE Connection

**lecup** <*handle*> <*min*> <*max*> <*latency*> <*timeout*>
LE Connection Update

## RESOURCES

*http://www.bluez.org*

## REPORTING BUGS

*linux−bluetooth@vger.kernel.org*

## AUTHOR

Maxim Krasnyansky <maxk@qualcomm.com>, Marcel Holtmann <marcel@holtmann.org>, Fabrizio Gennari <fabrizio.gennari@philips.com>

## COPYRIGHT