NAME

hcitool – configure Bluetooth connections

SYNOPSIS

hcitool [-h]
hcitool [-i <hciX>] [command [command parameters]]

DESCRIPTION

hcitool 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

-h Gives a list of possible commands

-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.

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=m|s] [--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 *m* (do not allow role switch, stay master) or *s* (allow role switch, become slave if the peer asks to become master). Default is *m*.

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 **master** or **slave**.

cpt *<bdaddr> <packet types>*
Change packet types for baseband connection to device with Bluetooth address *bdaddr*. *packet types* 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]*
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] [which 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] [--whitelist] [--discovery=g|l] [--duplicates]*
Start LE scan

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

lewladd *[--random] <bdaddr>*
Add device to LE White List

lewlrm *<bdaddr>*
Remove device from LE White List

lewlsz Read size of LE White List

lewlclr Clear LE White 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> | [--whitelist]*
Create a LE Connection

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

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

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