```
wusb-cbaf..txt
```

```
#! /bin/bash
#
set -e
progname=$(basename $0)
function help
{
   cat <<EOF
Usage: $progname COMMAND DEVICEs [ARGS]</pre>
```

Command for manipulating the pairing/authentication credentials of a Wireless USB device that supports wired-mode Cable-Based-Association.

Works in conjunction with the wusb-cba.ko driver from http://linuxuwb.org.

DEVICE

sysfs path to the device to authenticate; for example, both this guys are the same:

```
/sys/devices/pci0000:00/0000:00:1d.7/usb1/1-4/1-4.4/1-4.4:1.1 /sys/bus/usb/drivers/wusb-cbaf/1-4.4:1.1
```

COMMAND/ARGS are

start

Start a WUSB host controller (by setting up a CHID)

set-chid DEVICE HOST-CHID HOST-BANDGROUP HOST-NAME

Sets host information in the device; after this you can call the get-cdid to see how does this device report itself to us.

get-cdid DEVICE

Get the device ID associated to the HOST-CHDI we sent with 'set-chid'. We might not know about it.

set-cc DEVICE

If we allow the device to connect, set a random new CDID and CK (connection key). Device saves them for the next time it wants to connect wireless. We save them for that next time also so we can authenticate the device (when we see the CDID he uses to id itself) and the CK to crypto talk to it.

CHID is always 16 hex bytes in 'XX YY ZZ...' form BANDGROUP is almost always 0001

Examples:

You can default most arguments to '' to get a sane value:

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```
wusb-cbaf..txt
  $ $progname set-chid '' '' My host name"
  A full sequence:
    $progname set-chid '' '' "My host name"
$progname get-cdid ''
    $progname set-cc
EOF
# Defaults
# FIXME: CHID should come from a database :), band group from the host
host CHID="00 11 22 33 44 55 66 77 88 99 aa bb cc dd ee ff"
host band group="0001"
host name=$(hostname)
devs="$(echo /sys/bus/usb/drivers/wusb-cbaf/[0-9]*)"
hdevs="$(for h in /sys/class/uwb rc/*/wusbhc; do readlink -f $h; done)"
result=0
case $1 in
    start)
         for dev in \{2:-\text{hdevs}\}
           echo $host CHID > $dev/wusb chid
           echo I: started host $(basename $dev) >&2
         done
    stop)
         for dev in \{2:-\text{hdevs}\}
           echo I: stopped host $(basename $dev) >&2
         done
         ; ;
    set-chid)
         shift
        for dev in ${2:-$devs}; do
    echo "${4:-$host_name}" > $dev/wusb_host_name
    echo "${3:-$host_band_group}" > $dev/wusb_host_band_groups
    echo ${2:-$host_CHID} > $dev/wusb_chid
         done
         ; ;
    get-cdid)
         for dev in \{2:-\$devs\}
           cat $dev/wusb cdid
         done
         ; ;
    set-cc)
         for dev in \{2:-\$devs\}; do
             CDID="$ (head --bytes=16 /dev/urandom | od -tx1 -An)"
             CK="$ (head --bytes=16 /dev/urandom | od -tx1 -An)"
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```

```
wusb-cbaf..txt
echo "$CDID" > $dev/wusb_cdid
echo "$CK" > $dev/wusb_ck

echo I: CC set >&2
echo "CHID: $(cat $dev/wusb_chid)"
echo "CDID:$CDID"
echo "CK: $CK"

done
i;
help |h|--help|-h)
help
;;
*)
echo "E: Unknown usage" 1>&2
help 1>&2
result=1
esac
exit $result
```