

To confirm CT clear (using 192.168.1.126 as a test PC and 128.18.30.65 as test PC's normal DNS:
on FT: run mm with -l 1 (at a minimum)

Basic test setup:

on client: nslookup www.google.com

```
cat /proc/net/ip_contrack | grep "^udp.*src=192.168.1.126"
```

#a contrack should be printed

perform clear contrack test

To confirm ct clear results (invert expected grep response if confirming ct NOT cleared):

```
cat /proc/net/ip_contrack | grep "^udp.*src=192.168.1.126"
```

the contrack should now be gone

#if looking for a target contrack

```
cat /proc/kmsg | grep "cbtr: found a udp contrack to kill: matches target IP 192.168.1.126"
```

#else

#if looking for a (proxy) all contrack clear

```
cat /proc/kmsg | grep "cbtr: found a udp contrack to kill: matches target all"
```

VPNLink state change with proxyAction, test udp ct clear coverage testing:

VPNLink Down to Up:

- vpnProxy target: stop CT, alert with vpnProxy action, start CT, confirm ct contrack clear on FT's kmsg output.
- VpnProxy All: give mission, confirm ct contrack clear on FT's kmsg output.

Stop CT...

VPNLink Up to Down

- start vpnProxy all/targetIP action, before timeout stop CT, confirm pa exit and that it called notify gf, confirm udp_contrack_clear all/targetIP respectively

Proxy Start and Timeout, udp ct clear coverage testing:

- vpnLink up: (confirm ct clear in all scenarios except where stated, must occur immediately)
 - vpnProxy aquisition (new MAC target)
 - vpnProxy aquisition (new Email target) **DONE**
 - vpnProxy aquisition (inherited action target, no prev vpnAction)
 - vpnProxy aquisition (inherited action target, prev vpnAction timed out)
 - vpnProxy aquisition (inherited action target, prev vpnAction not yet timed out) – confirm no ct clear
 - vpnProxy All timeout, confirm ct clear
 - vpnProxy target timeout, confirm ct clear **DONE**
- vpnLink down: (confirm ct clear in all scenarios, must occur after pa notifies vpnLink up)
 - vpnProxy aquisition (new MAC target)
 - vpnProxy aquisition (new Email target) **DONE**
 - vpnProxy aquisition (inherited action target) **DONE**

vpnProxy All timeout, confirm NO ct clear
vpnProxy target timeout, confirm NO ct clear