

## Step 1. Use `binwalk -eM firmware` to recursively extact the filesystem.

filesystem extracted

```
└─$ tree _10477193.img.extracted
_10477193.img.extracted
├── 280000.squashfs
├── E8
├── E8.7z
├── _E8.extracted
│   ├── 4F3BE0
│   ├── 620EE0
│   ├── _620EE0.extracted
│   │   ├── 0.cpio
│   │   └── cpio-root
│   │       ├── dev
│   │       └── root
│   ├── 620EE0.xz
│   ├── 6E2A00
│   └── _6E2A00.extracted
│       ├── 0.cpio
│       └── cpio-root
│           ├── dev
│           └── root
└── squashfs-root
    ├── bin
    │   ├── air_monitor
    │   ├── ash -> busybox
    │   ├── base64 -> busybox
    │   ├── board_detect
    │   ├── busybox
    │   ├── cat -> busybox
    │   ├── chgrp -> busybox
    │   ├── chmod -> busybox
    │   ├── chown -> busybox
    │   ├── config_generate
    │   ├── cp -> busybox
    │   ├── date -> busybox
    │   ├── dd -> busybox
    │   ├── df -> busybox
    │   ├── dmesg -> busybox
    │   ├── echo -> busybox
    │   ├── egrep -> busybox
    │   ├── false -> busybox
    │   ├── fgrep -> busybox
    │   ├── fsck_hfs
    │   ├── fsync -> busybox
    │   └── grep -> busybox
```

```

| gunzip -> busybox
| gzip -> busybox
| ipcalc.sh
| kill -> busybox
| ln -> busybox
| lock -> busybox
| login -> busybox
| ls -> busybox
| mkdir -> busybox
| mknod -> busybox
| mkntfs
| mktemp -> busybox
| mount -> busybox
| mpstat -> busybox
| multithread_malloc_testcode
| multithread_malloc_testcode_t0
| multithread_malloc_testcode_t1
| multithread_malloc_testcode_t2
| mv -> busybox
| netmsg -> busybox
| netstat -> busybox
| newfs_hfs
| nice -> busybox
| ntfscck
| ntfsdebug
| ntfslabel
| opkg
| pidof -> busybox
| ping -> busybox
| ping6 -> busybox
| ps -> busybox
| pwd -> busybox
| rm -> busybox
| rmdir -> busybox
| sed -> busybox
| sh -> busybox
| sleep -> busybox
| sync -> busybox
| tar -> busybox
| thfslabel
| touch -> busybox
| true -> busybox
| tsmb-cfg
| tsmb-passwd
| tsmb-privilege
| tsmb-server
| ubus
| uclient-fetch
| umount -> busybox

```

```

├─ uname -> busybox
├─ vi -> busybox
├─ wget -> uclient-fetch
├─ zcat -> busybox
dev
etc
├─ avahi
│   ├── avahi-daemon.conf
│   └── services
│       ├── http.service
│       └── ssh.service
├─ banner
├─ banner.failSAFE
├─ banner.mtk
├─ bndstrg.conf
├─ board.d
│   ├── 02_network
│   └── 99-default_network
├─ config
│   ├── adv-route
│   ├── daemon_control
│   ├── ddns
│   ├── dhcp
│   ├── dhcp-opkg
│   ├── firewall
│   ├── firewall_global
│   ├── igmpproxy
│   ├── macaddr
│   ├── mtkhnat
│   ├── network_database
│   ├── parental_ctrl
│   ├── qos_database
│   ├── router
│   ├── rpcd
│   ├── storage
│   ├── upnpd
│   ├── user
│   ├── vlan_database
│   └── wireless
├─ crontabs
├─ dbus-1
│   └── system.d
│       └── avahi-dbus.conf
├─ ddns
│   ├── services
│   └── services_ipv6
├─ device_info
├─ diag.sh
├─ dnsmasq.conf

```

- └─ ethernet\_cfg.txt
- └─ ethertypes
- └─ firewall.user
- └─ fstab
- └─ group
- └─ hosts
- └─ hotplug.d
  - └─ block
    - └─ 10-mount
  - └─ firmware
    - └─ 11-mtk-wifi-e2p
  - └─ iface
    - └─ 00-netstate
    - └─ 15-teql
    - └─ 20-firewall
    - └─ 50-miniupnpd
    - └─ 95-ddns
    - └─ 98-mtk-vpn
    - └─ 99-mtk-lro
  - └─ net
    - └─ 00-sysctl
  - └─ ntp
    - └─ 25-dnsmasqsec
- └─ hotplug.json
- └─ hotplug-preinit.json
- └─ icon\_blue\_eng\_default.png
- └─ icon\_blue\_eng.png
- └─ icon\_blue.png
- └─ icon\_blue\_zxx\_default.png
- └─ icon\_blue\_zxx.png
- └─ icon\_green\_eng\_default.png
- └─ icon\_green\_eng.png
- └─ icon\_green.png
- └─ icon\_green\_zxx\_default.png
- └─ icon\_green\_zxx.png
- └─ icon\_orange\_eng\_default.png
- └─ icon\_orange\_eng.png
- └─ icon\_orange.png
- └─ icon\_orange\_zxx\_default.png
- └─ icon\_orange\_zxx.png
- └─ icon\_red\_eng\_default.png
- └─ icon\_red\_eng.png
- └─ icon\_red.png
- └─ icon\_red\_zxx\_default.png
- └─ icon\_red\_zxx.png
- └─ init.d
  - └─ atd
  - └─ avahi-daemon
  - └─ boot

```

├── cron
├── dbus
├── ddns
├── dnsmasq
├── done
├── file_sharing
├── firewall
├── firmware.sh
├── fstab
├── fwdd
├── gpio_switch
├── igmpproxy
├── led
├── lighttpd
├── log
├── miniupnpd
├── mtkhnat
├── netbios
├── network
├── odhcpd
├── powersaving
├── proprietary
├── quagga
├── rpcd
├── sysctl
├── sysfixtime
├── sysntpd
├── system
├── telnet
├── umount
├── urandom_seed
├── xl2tpd
├── inittab
├── iproute2
│   ├── rt_protos
│   └── rt_tables
├── kernel.config
├── lighttpd
│   ├── conf.d
│   │   ├── 10-redirect.conf
│   │   ├── 20-auth.conf
│   │   ├── 30-access.conf
│   │   ├── 30-accesslog.conf
│   │   ├── 30-alias.conf
│   │   ├── 30-cgi.conf
│   │   ├── 30-compress.conf
│   │   ├── 30-fastcgi.conf
│   │   ├── 30-scgi.conf
│   │   └── 30-setenv.conf

```

- └─ 30-ssi.conf
  - └─ 30-status.conf
- └─ lighttpd.conf
- └─ lighttpd\_guest.conf
- └─ lighttpd\_pc.conf
- └─ mime.conf
- └─ ssl
- └─ localtime -> /tmp/localtime
- └─ login.defs
- └─ logrotate.conf
- └─ logrotate.d
- └─ Makefile
- └─ map
  - └─ 1905d.cfg
- └─ modules-boot.d
  - └─ 02-crypto-hash -> ../modules.d/02-crypto-hash
  - └─ 09-crypto-aead -> ../modules.d/09-crypto-aead
  - └─ 09-crypto-manager -> ../modules.d/09-crypto-manager
  - └─ 20-usb-core -> ../modules.d/20-usb-core
  - └─ 30-gpio-button-hotplug -> ../modules.d/30-gpio-button-hotplug
  - └─ 40-ata-ahci-mtk -> ../modules.d/40-ata-ahci-mtk
  - └─ 40-scsi-core -> ../modules.d/40-scsi-core
  - └─ 40-usb2 -> ../modules.d/40-usb2
  - └─ 50-usb-ohci -> ../modules.d/50-usb-ohci
  - └─ 54-usb3 -> ../modules.d/54-usb3
  - └─ mmc -> ../modules.d/mmc
  - └─ sdhci -> ../modules.d/sdhci
  - └─ sdhci-mtk -> ../modules.d/sdhci-mtk
  - └─ usb-storage -> ../modules.d/usb-storage
- └─ modules.d
  - └─ 02-crypto-hash
  - └─ 09-crypto-aead
  - └─ 09-crypto-arc4
  - └─ 09-crypto-authenc
  - └─ 09-crypto-ecb
  - └─ 09-crypto-manager
  - └─ 09-crypto-null
  - └─ 09-crypto-pcompress
  - └─ 09-crypto-sha1
  - └─ 09-llc
  - └─ 10-stp
  - └─ 11-bridge
  - └─ 20-usb-core
  - └─ 30-gpio-button-hotplug
  - └─ 31-iptunnel
  - └─ 31-iptunnel4
  - └─ 32-l2tp
  - └─ 32-sit
  - └─ 32-udptunnel4

```
|
|
|
| 32-udptunnel6
|
| 34-ifb
|
| 39-gre
|
| 40-ata-ahci-mtk
|
| 40-scsi-core
|
| 40-usb2
|
| 42-ip6tables
|
| 50-cryptodev
|
| 50-usb-ohci
|
| 54-usb3
|
| 70-sched-core
|
| 71-sched-connmark
|
| 80-cryptodev
|
| br-netfilter
|
| ebtables
|
| ebtables-ipv4
|
| ipt-conntrack
|
| ipt-conntrack-extra
|
| ipt-core
|
| ipt-ipopt
|
| ipt-nat
|
| ipt-nfqueue
|
| lib-crc-ccitt
|
| lib-textsearch
|
| mapfilter
|
| mmc
|
| mppe
|
| mt7622
|
| mtfwd
|
| mt_wifi
|
| nf-conntrack
|
| nf-conntrack6
|
| nf-conntrack-netlink
|
| nf-ipt
|
| nf-ipt6
|
| nf-nat
|
| nf-nathelper
|
| nf-nathelper-extra
|
| nfnetlink
|
| nfnetlink-queue
|
| ppp
|
| pppoe
|
| pppol2tp
|
| pptp
|
| sdhci
|
| sdhci-mtk
|
|  usb-storage
|
| mtab -> /proc/mounts
|
| nsswitch.conf
```

```
├─ openwrt.config
├─ openwrt_release
├─ openwrt_version
├─ opkg
│   ├── customfeeds.conf
│   ├── distfeeds.conf
│   └─ keys
│       ├── 5151f69420c3f508
│       ├── 72a57f2191b211e0
│       ├── 792d9d9b39f180dc
│       ├── 9ef4694208102c43
│       ├── b5043e70f9a75cde
│       ├── d9c10c7f4f3e1af6
│       ├── dace9d4df16896bf
│       └─ dd6de0d06bbd3d85
├─ opkg.conf
├─ os-release -> ../usr/lib/os-release
├─ passwd
├─ ppp
│   ├── chap-secrets
│   ├── filter
│   ├── options
│   ├── options.pptp
│   ├── options.xl2tpd
│   └─ resolv.conf -> /tmp/resolv.conf.ppp
├─ preinit
├─ profile
├─ protocols
├─ quagga
│   ├── ripd.conf
│   └─ zebra.conf
├─ rc.button
│   ├── failsafe
│   ├── power
│   ├── reset
│   ├── rfkill
│   └─ wps
├─ rc.common
├─ rc.d
│   ├── K10ddns -> ../init.d/ddns
│   ├── K10fwdd -> ../init.d/fwdd
│   ├── K10gpio_switch -> ../init.d/gpio_switch
│   ├── K15firmware.sh -> ../init.d/firmware.sh
│   ├── K15miniupnpd -> ../init.d/miniupnpd
│   ├── K85odhcpd -> ../init.d/odhcpd
│   ├── K89log -> ../init.d/log
│   ├── K90network -> ../init.d/network
│   ├── K90sysfixtime -> ../init.d/sysfixtime
│   └─ K98boot -> ../init.d/boot
```



```

└─ K99umount -> ../init.d/umount
└─ S00sysfixtime -> ../init.d/sysfixtime
└─ S10boot -> ../init.d/boot
└─ S10fwdd -> ../init.d/fwdd
└─ S10system -> ../init.d/system
└─ S11sysctl -> ../init.d/sysctl
└─ S12log -> ../init.d/log
└─ S12rpcd -> ../init.d/rpcd
└─ S15firmware.sh -> ../init.d/firmware.sh
└─ S19dnsmasq -> ../init.d/dnsmasq
└─ S19firewall -> ../init.d/firewall
└─ S19mtkhnat -> ../init.d/mtkhnat
└─ S20network -> ../init.d/network
└─ S35odhcpd -> ../init.d/odhcpd
└─ S40fstab -> ../init.d/fstab
└─ S50atd -> ../init.d/atd
└─ S50cron -> ../init.d/cron
└─ S50lighttpd -> ../init.d/lighttpd
└─ S60dbus -> ../init.d/dbus
└─ S60file_sharing -> ../init.d/file_sharing
└─ S60netbios -> ../init.d/netbios
└─ S60quagga -> ../init.d/quagga
└─ S60xl2tpd -> ../init.d/xl2tpd
└─ S61avahi-daemon -> ../init.d/avahi-daemon
└─ S90telnet -> ../init.d/telnet
└─ S94miniupnpd -> ../init.d/miniupnpd
└─ S95ddns -> ../init.d/ddns
└─ S95done -> ../init.d/done
└─ S96led -> ../init.d/led
└─ S98gpio_switch -> ../init.d/gpio_switch
└─ S98sysnptd -> ../init.d/sysnptd
└─ S99igmpproxy -> ../init.d/igmpproxy
└─ S99powersaving -> ../init.d/powersaving
└─ S99proprietary -> ../init.d/proprietary
└─ S99urandom_seed -> ../init.d/urandom_seed
└─ rc.local
└─ resolv.conf -> /tmp/resolv.conf
└─ sdk.version
└─ services
└─ shadow
└─ shells
└─ ssl
    └─ certs
        └─ 02265526.0 -> Entrust_Root_Certification_Authority_-_G2.crt
        └─ 024dc131.0 -> Microsec_e-Szigno_Root_CA.crt
        └─ 03179a64.0 -> Staat_der_Nederlanden_EV_Root_CA.crt
        └─ 034868d6.0 -> Swisscom_Root_EV_CA_2.crt
        └─ 062cdee6.0 -> GlobalSign_Root_CA_-_R3.crt
        └─ 064e0aa9.0 -> QuoVadis_Root_CA_2_G3.crt

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					080911ac.0 -> QuoVadis_Root_CA.crt
					0810ba98.0 -> Root_CA_Generalitat_Valenciana.crt
					09789157.0 -> Starfield_Services_Root_Certificate_Authority_-
					_G2.crt
					0b1b94ef.0 -> CFCA_EV_ROOT.crt
					0c4c9b6c.0 -> Global_Chambersign_Root_-_2008.crt
					0d1b923b.0 -> S-
TRUST_Authentication_and_Encryption_Root_CA_2005_PN.crt					
					106f3e4d.0 -> Entrust_Root_Certification_Authority_-_EC1.crt
					116bf586.0 -> GeoTrust_Primary_Certification_Authority_-_G2.crt
					128805a3.0 -> EE_Certification_Centre_Root_CA.crt
					157753a5.0 -> AddTrust_External_Root.crt
					1636090b.0 ->
Hellenic_Academic_and_Research_Institutions_RootCA_2011.crt					
					1874d4aa.0 ->
China_Internet_Network_Information_Center_EV_Certificates_Root.crt					
					18856ac4.0 -> SecureSign_RootCA11.crt
					19c1fa33.0 -> S-TRUST_Universal_Root_CA.crt
					1d3472b9.0 -> GlobalSign_ECC_Root_CA_-_R5.crt
					1e08bfd1.0 -> IdenTrust_Public_Sector_Root_CA_1.crt
					1e09d511.0 -> T-TeleSec_GlobalRoot_Class_2.crt
					244b5494.0 -> DigiCert_High_Assurance_EV_Root_CA.crt
					24ad0b63.0 ->
Verisign_Class_1_Public_Primary_Certification_Authority.crt					
					26eaa2f.0 -> CA_WoSign_ECC_Root.crt
					2ae6433e.0 -> CA_Disig_Root_R2.crt
					2b349938.0 -> AffirmTrust_Commercial.crt
					2c11d503.0 -> OpenTrust_Root_CA_G3.crt
					2c543cd1.0 -> GeoTrust_Global_CA.crt
					2e4eed3c.0 -> thawte_Primary_Root_CA.crt
					2e5ac55d.0 -> DST_Root_CA_X3.crt
					32888f65.0 ->
Hellenic_Academic_and_Research_Institutions_RootCA_2015.crt					
					349f2832.0 -> EC-ACC.crt
					3513523f.0 -> DigiCert_Global_Root_CA.crt
					381ce4dd.0 -> ACEDICOM_Root.crt
					3b2716e5.0 -> EBG_Elektronik_Sertifika_Hizmet_Sağlayıcısı.crt
					3bde41ac.0 ->
Autoridad_de_Certificacion_Firmaprofesional_CIF_A62634068.crt					
					3e45d192.0 -> Hongkong_Post_Root_CA_1.crt
					3ee7e181.0 -> IGC_A.crt
					3efd4dc0.0 -> Swisscom_Root_CA_2.crt
					40193066.0 -> Certum_Trusted_Network_CA_2.crt
					4042bcee.0 -> ISRG_Root_X1.crt
					40547a79.0 -> COMODO_Certification_Authority.crt
					415660c1.0 ->
Verisign_Class_3_Public_Primary_Certification_Authority.crt					
					4304c5e5.0 -> Network_Solutions_Certificate_Authority.crt
					442adcac.0 -> Certum_Root_CA.crt

				451b5485.0 -> Certplus_Root_CA_G2.crt
				480720ec.0 -> GeoTrust_Primary_Certification_Authority.crt
				48bec511.0 -> Certum_Trusted_Network_CA.crt
				4a6481c9.0 -> GlobalSign_Root_CA_-_R2.crt
				4bfab552.0 -> Starfield_Root_Certificate_Authority_-_G2.crt
				4f316efb.0 -> SwissSign_Gold_CA_-_G2.crt
				5273a94c.0 -> E-Tugra_Certification_Authority.crt
				5443e9e3.0 -> T-TeleSec_GlobalRoot_Class_3.crt
				54657681.0 -> Buypass_Class_2_Root_CA.crt
				5620c4aa.0 -> TC_TrustCenter_Class_3_CA_II.crt
				56657bde.0 -> Comodo_Trusted_Services_root.crt
				578d5c04.0 -> Equifax_Secure_CA.crt
				57bbd831.0 -> ApplicationCA_-_Japanese_Government.crt
				57bcb2da.0 -> SwissSign_Silver_CA_-_G2.crt
				592c0a9a.0 -> TURKTRUST_Certificate_Services_Provider_Root_2007.crt
				5a4d6896.0 -> Staat_der_Nederlanden_Root_CA_-_G3.crt
				5ad8a5d6.0 -> GlobalSign_Root_CA.crt
				5c44d531.0 -> Staat_der_Nederlanden_Root_CA_-_G2.crt
				5cd81ad7.0 -> TeliaSonera_Root_CA_v1.crt
				5d63b0ae.0 -> WoSign_China.crt
				5f15c80c.0 -> TWCA_Global_Root_CA.crt
				607986c7.0 -> DigiCert_Global_Root_G2.crt
				608a55ad.0 -> OpenTrust_Root_CA_G2.crt
				6410666e.0 -> Taiwan_GRCA.crt
				653b494a.0 -> Baltimore_CyberTrust_Root.crt
				65b876bd.0 -> TÜBİTAK_UEKAE_Kök_Sertifika_Hizmet_Sağlayıcısı_-_Sürüm_3.crt
				667c66d4.0 -> Swisscom_Root_CA_1.crt
				6b99d060.0 -> Entrust_Root_Certification_Authority.crt
				6f2c1157.0 -> AC_Raíz_Certicámara_S.A..crt
				706f604c.0 -> XRamp_Global_CA_Root.crt
				749e9e03.0 -> QuoVadis_Root_CA_1_G3.crt
				75dlb2ed.0 -> DigiCert_Trusted_Root_G4.crt
				76cb8f92.0 -> Cybertrust_Global_Root.crt
				76faf6c0.0 -> QuoVadis_Root_CA_3.crt
				7719f463.0 -> Hellenic_Academic_and_Research_Institutions_ECC_RootCA_2015.crt
				790a7190.0 -> DST_ACES_CA_X6.crt
				7992b8bb.0 -> TÜRKTRUST_Elektronik_Sertifika_Hizmet_Sağlayıcısı_H5.crt
				79ad8b43.0 -> Equifax_Secure_eBusiness_CA_1.crt
				7d0b38bd.0 -> VeriSign_Class_3_Public_Primary_Certification_Authority_-_G4.crt
				7d5a75e4.0 -> WellsSecure_Public_Root_Certificate_Authority.crt
				7f3d5d1d.0 -> DigiCert_Assured_ID_Root_G3.crt
				8096d0a9.0 -> WoSign.crt
				812e17de.0 -> Deutsche_Telekom_Root_CA_2.crt
				8160b96c.0 -> Microsec_e-Szigno_Root_CA_2009.crt
				861a399d.0 -> AddTrust_Low-Value_Services_Root.crt

				87229d21.0 -> OpenTrust_Root_CA_G1.crt
				876f1e28.0 -> StartCom_Certification_Authority_G2.crt
				8867006a.0 -> GeoTrust_Universal_CA_2.crt
				8b59blad.0 -> AddTrust_Public_Services_Root.crt
				8d86cdd1.0 -> certSIGN_ROOT_CA.crt
				9007ae68.0 -> CA_Disig_Root_R1.crt
				9168f543.0 -> Certplus_Root_CA_G1.crt
				930ac5d2.0 -> Actalis_Authentication_Root_CA.crt
				93bc0acc.0 -> AffirmTrust_Networking.crt
				988a38cb.0 -> NetLock_Arany_ =Class_Gold= _Főtanúsítvány.crt
				9c2e7d30.0 -> Sonera_Class_2_Root_CA.crt
				9c8dfbd4.0 -> AffirmTrust_Premium_ECC.crt
				9d04f354.0 -> DigiCert_Assured_ID_Root_G2.crt
				9d520b32.0 -> Security_Communication_EV_RootCA1.crt
				9f0f5fd6.0 -> Certinomis_-_Root_CA.crt
				a760e1bd.0 -> Visa_eCommerce_Root.crt
				a8dee976.0 -> SwissSign_Platinum_CA_-_G2.crt
				a94d09e5.0 -> ACCVRAIZ1.crt
				ACCVRAIZ1.crt
				ACEDICOM_Root.crt
				AC_Raíz_Certicámara_S.A..crt
				Actalis_Authentication_Root_CA.crt
				ad088e1d.0 -> GeoTrust_Universal_CA.crt
				AddTrust_External_Root.crt
				AddTrust_Low-Value_Services_Root.crt
				AddTrust_Public_Services_Root.crt
				AddTrust_Qualified_Certificates_Root.crt
				ae8153b9.0 -> StartCom_Certification_Authority.crt
				ae8153b9.1 -> StartCom_Certification_Authority_2.crt
				aee5f10d.0 -> Entrust.net_Premium_2048_Secure_Server_CA.crt
				AffirmTrust_Commercial.crt
				AffirmTrust_Networking.crt
				AffirmTrust_Premium.crt
				AffirmTrust_Premium_ECC.crt
				ApplicationCA_-_Japanese_Government.crt
				Atos_TrustedRoot_2011.crt
				Autoridad_de_Certificacion_Firmaprofesional_CIF_A62634068.crt
				b0e59380.0 -> GlobalSign_ECC_Root_CA_-_R4.crt
				b1159c4c.0 -> DigiCert_Assured_ID_Root_CA.crt
				b13cc6df.0 -> UTN_USERFirst_Hardware_Root_CA.crt
				b1b8a7f3.0 -> OISTE_WISeKey_Global_Root_GA_CA.crt
				b204d74a.0 ->

# VeriSign\_Class\_3\_Public\_Primary\_Certification\_Authority\_-\_G5.crt

				b66938e9.0 -> Secure_Global_CA.crt
				b727005e.0 -> AffirmTrust_Premium.crt
				b7a5b843.0 -> TWCA_Root_Certification_Authority.crt
				ba89ed3b.0 -> thawte_Primary_Root_CA_-_G3.crt
				Baltimore_CyberTrust_Root.crt
				bb2d49a0.0 -> ComSign_CA.crt

					bd1910d4.0 -> CNNIC_ROOT.crt
					Buypass_Class_2_CA_1.crt
					Buypass_Class_2_Root_CA.crt
					Buypass_Class_3_Root_CA.crt
					c01cdfa2.0 -> VeriSign_Universal_Root_Certification_Authority.crt
					c089bbbd.0 -> thawte_Primary_Root_CA_-_G2.crt
					c0ff1f52.0 ->
Verisign_Class_3_Public_Primary_Certification_Authority_-_G3.crt					
					c28a8a30.0 -> D-TRUST_Root_Class_3_CA_2_2009.crt
					c47d9980.0 -> Chambers_of_Commerce_Root_-_2008.crt
					c5d3212a.0 -> PSCProcert.crt
					c5e082db.0 -> UTN_USERFirst_Email_Root_CA.crt
					c679bc3f.0 ->
TÜRKTRUST_Elektronik_Sertifika_Hizmet_Sağlayıcısı_H6.crt					
					c99398f3.0 -> RSA_Security_2048_v3.crt
					c9f83a1c.0 -> Comodo_Secure_Services_root.crt
					ca6e4ad9.0 -> ePKI_Root_Certification_Authority.crt
					ca-certificates.crt
					CA_Disig_Root_R1.crt
					CA_Disig_Root_R2.crt
					Camerfirma_Chambers_of_Commerce_Root.crt
					Camerfirma_Global_Chambersign_Root.crt
					CA_WoSign_ECC_Root.crt
					cb357862.0 ->
Verisign_Class_2_Public_Primary_Certification_Authority_-_G2.crt					
					cb59f961.0 -> Camerfirma_Global_Chambersign_Root.crt
					cbeee9e2.0 -> GeoTrust_Global_CA_2.crt
					cbf06781.0 -> Go_Daddy_Root_Certificate_Authority_-_G2.crt
					cc450945.0 -> Izenpe.com.crt
					cd58d51e.0 -> Security_Communication_RootCA2.crt
					Certification_Authority_of_WoSign_G2.crt
					Certigna.crt
					Certinomis_-_Autorité_Racine.crt
					Certinomis_-_Root_CA.crt
					Certplus_Class_2_Primary_CA.crt
					Certplus_Root_CA_G1.crt
					Certplus_Root_CA_G2.crt
					certSIGN_ROOT_CA.crt
					Certum_Root_CA.crt
					Certum_Trusted_Network_CA_2.crt
					Certum_Trusted_Network_CA.crt
					cfalc2ee.0 -> Buypass_Class_2_CA_1.crt
					CFCA_EV_ROOT.crt
					Chambers_of_Commerce_Root_-_2008.crt
					China_Internet_Network_Information_Center_EV_Certificates_Root.crt
					CNNIC_ROOT.crt
					Comodo_AAA_Services_root.crt
					COMODO_Certification_Authority.crt
					COMODO_ECC_Certification_Authority.crt

				COMODO_RSA_Certification_Authority.crt
				Comodo_Secure_Services_root.crt
				Comodo_Trusted_Services_root.crt
				ComSign_CA.crt
				Cybertrust_Global_Root.crt
				d4dae3dd.0 -> D-TRUST_Root_Class_3_CA_2_EV_2009.crt
				d6325660.0 -> COMODO_RSA_Certification_Authority.crt
				d7e8dc79.0 -> QuoVadis_Root_CA_2.crt
				d853d49e.0 -> Trustis_FPS_Root_CA.crt
				d957f522.0 -> Certinomis_-_Autorité_Racine.crt
				dc45b0bd.0 ->

#### Verisign\_Class\_2\_Public\_Primary\_Certification\_Authority\_-\_G3.crt

				dd8e9d41.0 -> DigiCert_Global_Root_G3.crt
				Deutsche_Telekom_Root_CA_2.crt
				DigiCert_Assured_ID_Root_CA.crt
				DigiCert_Assured_ID_Root_G2.crt
				DigiCert_Assured_ID_Root_G3.crt
				DigiCert_Global_Root_CA.crt
				DigiCert_Global_Root_G2.crt
				DigiCert_Global_Root_G3.crt
				DigiCert_High_Assurance_EV_Root_CA.crt
				DigiCert_Trusted_Root_G4.crt
				DST_ACES_CA_X6.crt
				DST_Root_CA_X3.crt
				D-TRUST_Root_Class_3_CA_2_2009.crt
				D-TRUST_Root_Class_3_CA_2_EV_2009.crt
				e113c810.0 -> Certigna.crt
				e18bfb83.0 -> QuoVadis_Root_CA_3_G3.crt
				e2799e36.0 -> GeoTrust_Primary_Certification_Authority_-_G3.crt
				e36a6752.0 -> Atos_TrustedRoot_2011.crt
				e536d871.0 -> AddTrust_Qualified_Certificates_Root.crt
				e73d606e.0 -> OISTE_WISEKey_Global_Root_GB_CA.crt
				e8de2f56.0 -> Buypass_Class_3_Root_CA.crt
				EBG_Elektronik_Sertifika_Hizmet_Sağlayıcısı.crt
				EC-ACC.crt
				ee1365c0.0 ->

#### Verisign\_Class\_1\_Public\_Primary\_Certification\_Authority\_-\_G3.crt

				ee64a828.0 -> Comodo_AAA_Services_root.crt
				EE_Certification_Centre_Root_CA.crt
				eed8c118.0 -> COMODO_ECC_Certification_Authority.crt
				ef2f636c.0 -> Equifax_Secure_Global_eBusiness_CA.crt
				ef954a4e.0 -> IdenTrust_Commercial_Root_CA_1.crt
				Entrust.net_Premium_2048_Secure_Server_CA.crt
				Entrust_Root_Certification_Authority.crt
				Entrust_Root_Certification_Authority_-_EC1.crt
				Entrust_Root_Certification_Authority_-_G2.crt
				ePKI_Root_Certification_Authority.crt
				Equifax_Secure_CA.crt
				Equifax_Secure_eBusiness_CA_1.crt

— Equifax\_Secure\_Global\_eBusiness\_CA.crt  
— E-Tugra\_Certification\_Authority.crt  
— f060240e.0 -> Certplus\_Class\_2\_Primary\_CA.crt  
— f081611a.0 -> Go\_Daddy\_Class\_2\_CA.crt  
— f30dd6ad.0 -> USERTrust\_ECC\_Certification\_Authority.crt  
— f3377b1b.0 -> Security\_Communication\_Root\_CA.crt  
— f387163d.0 -> Starfield\_Class\_2\_CA.crt  
— f38a011e.0 -> Certification\_Authority\_of\_WoSign\_G2.crt  
— f39fc864.0 -> SecureTrust\_CA.crt  
— f90208f7.0 -> Camerfirma\_Chambers\_of\_Commerce\_Root.crt  
— fc5a8f99.0 -> USERTrust\_RSA\_Certification\_Authority.crt  
— fcac10e3.0 -> Juur-SK.crt  
— fe8a2cd8.0 -> SZAFIR\_ROOT\_CA2.crt  
— GeoTrust\_Global\_CA\_2.crt  
— GeoTrust\_Global\_CA.crt  
— GeoTrust\_Primary\_Certification\_Authority.crt  
— GeoTrust\_Primary\_Certification\_Authority\_-\_G2.crt  
— GeoTrust\_Primary\_Certification\_Authority\_-\_G3.crt  
— GeoTrust\_Universal\_CA\_2.crt  
— GeoTrust\_Universal\_CA.crt  
— Global\_Chambersign\_Root\_-\_2008.crt  
— GlobalSign\_ECC\_Root\_CA\_-\_R4.crt  
— GlobalSign\_ECC\_Root\_CA\_-\_R5.crt  
— GlobalSign\_Root\_CA.crt  
— GlobalSign\_Root\_CA\_-\_R2.crt  
— GlobalSign\_Root\_CA\_-\_R3.crt  
— Go\_Daddy\_Class\_2\_CA.crt  
— Go\_Daddy\_Root\_Certificate\_Authority\_-\_G2.crt  
— Hellenic\_Academic\_and\_Research\_Institutions\_ECC\_RootCA\_2015.crt  
— Hellenic\_Academic\_and\_Research\_Institutions\_RootCA\_2011.crt  
— Hellenic\_Academic\_and\_Research\_Institutions\_RootCA\_2015.crt  
— Hongkong\_Post\_Root\_CA\_1.crt  
— IdemTrust\_Commercial\_Root\_CA\_1.crt  
— IdemTrust\_Public\_Sector\_Root\_CA\_1.crt  
— IGC\_A.crt  
— ISRG\_Root\_X1.crt  
— Izenpe.com.crt  
— Juur-SK.crt  
— Microsec\_e-Szigno\_Root\_CA\_2009.crt  
— Microsec\_e-Szigno\_Root\_CA.crt  
— NetLock\_Arany\_=Class\_Gold=\_Főtanúsítvány.crt  
— Network\_Solutions\_Certificate\_Authority.crt  
— OISTE\_WISEKey\_Global\_Root\_GA\_CA.crt  
— OISTE\_WISEKey\_Global\_Root\_GB\_CA.crt  
— OpenTrust\_Root\_CA\_G1.crt  
— OpenTrust\_Root\_CA\_G2.crt  
— OpenTrust\_Root\_CA\_G3.crt  
— PSCProcet.crt  
— QuoVadis\_Root\_CA\_1\_G3.crt

			— QuoVadis_Root_CA_2.crt
			— QuoVadis_Root_CA_2_G3.crt
			— QuoVadis_Root_CA_3.crt
			— QuoVadis_Root_CA_3_G3.crt
			— QuoVadis_Root_CA.crt
			— Root_CA_Generalitat_Valenciana.crt
			— RSA_Security_2048_v3.crt
			— Secure_Global_CA.crt
			— SecureSign_RootCA11.crt
			— SecureTrust_CA.crt
			— Security_Communication_EV_RootCA1.crt
			— Security_Communication_RootCA2.crt
			— Security_Communication_Root_CA.crt
			— Sonera_Class_2_Root_CA.crt
			— Staat_der_Nederlanden_EV_Root_CA.crt
			— Staat_der_Nederlanden_Root_CA_-_G2.crt
			— Staat_der_Nederlanden_Root_CA_-_G3.crt
			— Starfield_Class_2_CA.crt
			— Starfield_Root_Certificate_Authority_-_G2.crt
			— Starfield_Services_Root_Certificate_Authority_-_G2.crt
			— StartCom_Certification_Authority_2.crt
			— StartCom_Certification_Authority.crt
			— StartCom_Certification_Authority_G2.crt
			— S-TRUST_Authentication_and_Encryption_Root_CA_2005_PN.crt
			— S-TRUST_Universal_Root_CA.crt
			— Swisscom_Root_CA_1.crt
			— Swisscom_Root_CA_2.crt
			— Swisscom_Root_EV_CA_2.crt
			— SwissSign_Gold_CA_-_G2.crt
			— SwissSign_Platinum_CA_-_G2.crt
			— SwissSign_Silver_CA_-_G2.crt
			— SZAFIR_ROOT_CA2.crt
			— Taiwan_GRCA.crt
			— TC_TrustCenter_Class_3_CA_II.crt
			— TeliaSonera_Root_CA_v1.crt
			— thawte_Primary_Root_CA.crt
			— thawte_Primary_Root_CA_-_G2.crt
			— thawte_Primary_Root_CA_-_G3.crt
			— Trustis_FPS_Root_CA.crt
			— T-TeleSec_GlobalRoot_Class_2.crt
			— T-TeleSec_GlobalRoot_Class_3.crt
			— TÜBİTAK_UEKAE_Kök_Sertifika_Hizmet_Sağlayıcısı_-_Sürüm_3.crt
			— TURKTRUST_Certificate_Services_Provider_Root_2007.crt
			— TÜRKTRUST_Elektronik_Sertifika_Hizmet_Sağlayıcısı_H5.crt
			— TÜRKTRUST_Elektronik_Sertifika_Hizmet_Sağlayıcısı_H6.crt
			— TWCA_Global_Root_CA.crt
			— TWCA_Root_Certification_Authority.crt
			— USERTrust_ECC_Certification_Authority.crt
			— USERTrust_RSA_Certification_Authority.crt



- └─ UTN\_USERFirst\_Email\_Root\_CA.crt
- └─ UTN\_USERFirst\_Hardware\_Root\_CA.crt
- └─ Verisign\_Class\_1\_Public\_Primary\_Certification\_Authority.crt
- └─ Verisign\_Class\_1\_Public\_Primary\_Certification\_Authority\_-\_G3.crt
- └─ Verisign\_Class\_2\_Public\_Primary\_Certification\_Authority\_-\_G2.crt
- └─ Verisign\_Class\_2\_Public\_Primary\_Certification\_Authority\_-\_G3.crt
- └─ Verisign\_Class\_3\_Public\_Primary\_Certification\_Authority.crt
- └─ Verisign\_Class\_3\_Public\_Primary\_Certification\_Authority\_-\_G3.crt
- └─ VeriSign\_Class\_3\_Public\_Primary\_Certification\_Authority\_-\_G4.crt
- └─ VeriSign\_Class\_3\_Public\_Primary\_Certification\_Authority\_-\_G5.crt
- └─ VeriSign\_Universal\_Root\_Certification\_Authority.crt
- └─ Visa\_eCommerce\_Root.crt
- └─ WellsSecure\_Public\_Root\_Certificate\_Authority.crt
- └─ WoSign\_China.crt
- └─ WoSign.crt
- └─ XRamp\_Global\_CA\_Root.crt
- └─ openssl.cnf
  - └─ private
- └─ sysctl.conf
- └─ sysctl.d
  - └─ local.conf
- └─ sysupgrade.conf
- └─ tsmb.conf
- └─ TZ -> /tmp/TZ
- └─ uci-defaults
  - └─ 10-fstab
  - └─ 10\_migrate-shadow
  - └─ 11\_migrate-sysctl
  - └─ 12\_network-generate-ula
  - └─ 13\_fix\_group\_user
  - └─ 20\_migrate-feeds
  - └─ 99-firewall
  - └─ 99-miniupnpd
  - └─ ddns
  - └─ ddns\_cloudflare
  - └─ ddns\_cloudflare.com-v4
  - └─ ddns\_godaddy.com-v1
  - └─ ddns\_no-ip\_com
  - └─ ddns\_nsupdate
  - └─ odhcpd.defaults
- └─ vsftpd
- └─ vsftpd.conf
- └─ wapp\_ap.conf
- └─ wapp\_ap\_ra0.conf
- └─ wapp\_ap\_ra0\_default.conf
- └─ wapp\_ap\_ra1.conf
- └─ wapp\_ap\_rai0.conf
- └─ wapp\_ap\_rai0\_default.conf
- └─ wapp\_ap\_rail.conf

- └─ wapp\_ap\_rax0.conf
- └─ wapp\_ap\_rax0\_default.conf
- └─ wapp\_ap\_rax1.conf
- └─ wapp\_ap\_wlan0.conf
- └─ wapp\_ap\_wlan0\_default.conf
- └─ wapp\_ap\_wlan1.conf
- └─ WfaEndpoint
  - └─ wfa\_cli.txt
- └─ wifi-abgn-logo\_270x73.png
- └─ WiFi-alliancelogo\_3D\_default.png
- └─ WiFi-alliancelogo\_3D.png
- └─ wireless
  - └─ llprofile.dat
  - └─ mediatek
    - └─ MPT
      - └─ 7622\_BF\_CE.dat
      - └─ 7622\_BF\_CN.dat
      - └─ 7622\_BF\_FCC.dat
      - └─ 7622\_BF\_IC.dat
      - └─ 7622\_BF\_JP.dat
      - └─ 7622\_BF\_MA.dat
      - └─ 7622\_BF\_PH.dat
      - └─ 7622\_BF\_SI.dat
      - └─ 7622\_BF\_TH.dat
      - └─ 7622\_CE.dat
      - └─ 7622\_CN.dat
      - └─ 7622\_FCC.dat
      - └─ 7622\_IC.dat
      - └─ 7622\_JP.dat
      - └─ 7622\_MA.dat
      - └─ 7622\_PH.dat
      - └─ 7622\_SI.dat
      - └─ 7622\_TH.dat
    - └─ mt7615e.eeprom.bin
    - └─ mt7615e-sku-bf.dat
    - └─ mt7615e-sku.dat
    - └─ mt7622.1.dat
    - └─ mt7915.1.dat
    - └─ mt7915.2.dat
    - └─ mt7915.slt.b0.dat
    - └─ mt7915.slt.b1.dat
    - └─ version
    - └─ wifi\_cert.1.dat
      - └─ wifi\_cert.2.dat
  - └─ sigma\_test
    - └─ wifi\_cert.1.dat
    - └─ wifi\_cert.2.dat
    - └─ wifi\_cert\_b0.dat
    - └─ wifi\_cert\_b1.dat

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└─ xl2tpd
  └─ xl2tpd.conf
  └─ xl2tp-secrets
└─ lib
  └─ config
    └─ uci.sh
  └─ firmware
  └─ functions
    └─ leds.sh
    └─ network.sh
    └─ preinit.sh
    └─ procd.sh
    └─ service.sh
    └─ system.sh
    └─ uci-defaults.sh
  └─ functions.sh
  └─ ld-2.24.so
  └─ ld-linux-aarch64.so.1 -> ld-2.24.so
  └─ libanl-2.24.so
  └─ libanl.so.1 -> libanl-2.24.so
  └─ libblkid-tiny.so
  └─ libblobmsg_json.so
  └─ libc-2.24.so
  └─ libcidn-2.24.so
  └─ libcidn.so.1 -> libcidn-2.24.so
  └─ libcrypt-2.24.so
  └─ libcrypt.so.1 -> libcrypt-2.24.so
  └─ libc.so.6 -> libc-2.24.so
  └─ libdl-2.24.so
  └─ libdl.so.2 -> libdl-2.24.so
  └─ libfstools.so
  └─ libgcc_s.so.1
  └─ libjson_script.so
  └─ libkvcutil.so
  └─ libm-2.24.so
  └─ libm.so.6 -> libm-2.24.so
  └─ libnsl-2.24.so
  └─ libnsl.so.1 -> libnsl-2.24.so
  └─ libnss_dns-2.24.so
  └─ libnss_dns.so.2 -> libnss_dns-2.24.so
  └─ libnss_files-2.24.so
  └─ libnss_files.so.2 -> libnss_files-2.24.so
  └─ libpthread-2.24.so
  └─ libpthread.so.0 -> libpthread-2.24.so
  └─ libresolv-2.24.so
  └─ libresolv.so.2 -> libresolv-2.24.so
  └─ librpc.so
  └─ librt-2.24.so
  └─ librt.so.1 -> librt-2.24.so
```

- └─ libsetlbf.so
- └─ libssp.so.0 -> libssp.so.0.0.0
- └─ libssp.so.0.0.0
- └─ libthread\_db.so.1 -> libthread\_db-1.0.so
- └─ libubox.so
- └─ libubus.so
- └─ libuci.so
- └─ libutil-2.24.so
- └─ libutil.so.1 -> libutil-2.24.so
- └─ libvalidate.so
- └─ mediatek.sh
- └─ modules
  - └─ 4.4.198
    - └─ act\_connmark.ko
    - └─ act\_mirred.ko
    - └─ act\_skbedit.ko
    - └─ ahci\_mtk.ko
    - └─ arc4.ko
    - └─ authenc.ko
    - └─ cls\_flow.ko
    - └─ cls\_fw.ko
    - └─ cls\_route.ko
    - └─ cls\_tcindex.ko
    - └─ cls\_u32.ko
    - └─ crc-ccitt.ko
    - └─ cryptodev.ko
    - └─ ebt\_802\_3.ko
    - └─ ebtable\_broute.ko
    - └─ ebtable\_filter.ko
    - └─ ebtable\_nat.ko
    - └─ ebtables.ko
    - └─ ebt\_among.ko
    - └─ ebt\_arp.ko
    - └─ ebt\_arpreply.ko
    - └─ ebt\_dnat.ko
    - └─ ebt\_ip.ko
    - └─ ebt\_limit.ko
    - └─ ebt\_mark.ko
    - └─ ebt\_mark\_m.ko
    - └─ ebt\_pkttype.ko
    - └─ ebt\_redirect.ko
    - └─ ebt\_snat.ko
    - └─ ebt\_stp.ko
    - └─ ebt\_vlan.ko
    - └─ ecb.ko
    - └─ ehci-hcd.ko
    - └─ ehci-platform.ko
    - └─ em\_u32.ko
    - └─ gpio-button-hotplug.ko

			gre.ko
			ifb.ko
			ip6table_filter.ko
			ip6table_mangle.ko
			ip6t_REJECT.ko
			ip6_udp_tunnel.ko
			ip_gre.ko
			iptable_filter.ko
			iptable_mangle.ko
			iptable_nat.ko
			ip_tables.ko
			ipt_ECN.ko
			ipt_MASQUERADE.ko
			ipt_REJECT.ko
			l2tp_core.ko
			l2tp_netlink.ko
			l2tp_ppp.ko
			libahci.ko
			libahci_platform.ko
			libata.ko
			mapfilter.ko
			mmc_block.ko
			mmc_core.ko
			mt7622_mt_wifi.ko
			mtfwd.ko
			mtkhnat.ko
			mtk-sd.ko
			mt_wnat.ko
			mt_wifi.ko
			nf_conntrack_amanda.ko
			nf_conntrack_broadcast.ko
			nf_conntrack_h323.ko
			nf_conntrack_ipv4.ko
			nf_conntrack_ipv6.ko
			nf_conntrack_irc.ko
			nf_conntrack_netlink.ko
			nf_conntrack_pptp.ko
			nf_conntrack_proto_gre.ko
			nf_conntrack_sip.ko
			nf_conntrack_snmp.ko
			nf_conntrack_tftp.ko
			nf_defrag_ipv4.ko
			nf_defrag_ipv6.ko
			nf_log_common.ko
			nf_log_ipv4.ko
			nf_log_ipv6.ko
			nf_nat_amanda.ko
			nf_nat_ftp.ko
			nf_nat_h323.ko

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|— nf_nat_ipv4.ko
|— nf_nat_irc.ko
|— nf_nat.ko
|— nf_nat_masquerade_ipv4.ko
|— nf_nat_pptp.ko
|— nf_nat_proto_gre.ko
|— nf_nat_redirect.ko
|— nf_nat_sip.ko
|— nf_nat_snmp_basic.ko
|— nf_nat_tftp.ko
|— nfnetlink.ko
|— nfnetlink_queue.ko
|— nf_reject_ipv4.ko
|— nf_reject_ipv6.ko
|— ohci-hcd.ko
|— ohci-platform.ko
|— ppp_async.ko
|— ppp_generic.ko
|— ppp_mppe.ko
|— pppoe.ko
|— pppox.ko
|— pptp.ko
|— sch_hfsc.ko
|— sch_htb.ko
|— sch_ingress.ko
|— sch_tbf.ko
|— sdhci.ko
|— sdhci-pltfrm.ko
|— sha1_generic.ko
|— slhc.ko
|— thfsplus.ko
|— tntfs.ko
|— tsmb.ko
|— tuxera-procfs.ko
|— udp_tunnel.ko
|— usb-common.ko
|— usbcore.ko
|— usb-storage.ko
|— xhci-hcd.ko
|— xhci-mtk.ko
|— xhci-pci.ko
|— xhci-plat-hcd.ko
|— xt_CLASSIFY.ko
|— xt_comment.ko
|— xt_connbytes.ko
|— xt_connlimit.ko
|— xt_connmark.ko
|— xt_conntrack.ko
|— xt_dscp.ko

```

- └─ xt\_DSCP.ko
- └─ xt\_ecn.ko
- └─ xt\_helper.ko
- └─ xt\_hl.ko
- └─ xt\_HL.ko
- └─ xt\_length.ko
- └─ xt\_limit.ko
- └─ xt\_LOG.ko
- └─ xt\_mark.ko
- └─ xt\_nat.ko
- └─ xt\_NFQUEUE.ko
- └─ xt\_recent.ko
- └─ xt\_REDIRECT.ko
- └─ xt\_state.ko
- └─ xt\_statistic.ko
- └─ xt\_tcpmss.ko
- └─ xt\_time.ko
- └─ netifd
  - └─ dhcp.script
  - └─ dhcpv6.script
  - └─ hostapd.sh
  - └─ netifd-proto.sh
  - └─ netifd-wireless.sh
  - └─ ppp6-up
  - └─ ppp-down
  - └─ ppp-up
  - └─ proto
    - └─ 6rd.sh
    - └─ dhcp.sh
    - └─ dhcpv6.sh
    - └─ l2tp.sh
    - └─ ppp.sh
  - └─ utils.sh
- └─ network
  - └─ config.sh
  - └─ switch.sh
- └─ preinit
  - └─ 00\_preinit.conf
  - └─ 02\_default\_set\_state
  - └─ 03\_preinit\_do\_mediatek.sh
  - └─ 10\_indicate\_failsafe
  - └─ 10\_indicate\_preinit
  - └─ 10\_sysinfo
  - └─ 30\_failsafe\_wait
  - └─ 40\_run\_failsafe\_hook
  - └─ 50\_indicate\_regular\_preinit
  - └─ 70\_initramfs\_test
  - └─ 80\_mount\_root
  - └─ 81\_urandom\_seed

```

├── 98_10_mtk_failsafe_init
├── 99_10_failsafe_login
├── 99_10_run_init
├── upgrade
│   ├── common.sh
│   ├── fwtool.sh
│   ├── keep.d
│   │   ├── base-files
│   │   ├── base-files-essential
│   │   ├── dbus
│   │   ├── opkg
│   │   ├── ppp
│   │   └── vsftpd
│   ├── luci-add-conffiles.sh
│   ├── nand.sh
│   └── platform.sh
├── wifi
│   ├── mt7615e.lua
│   ├── ralink_common.sh
│   └── wifi_services.lua
├── lib64 -> lib
├── mnt
├── overlay
├── proc
├── rom
│   └── note
├── root
├── sbin
│   ├── arp_neigh_loop
│   ├── askfirst
│   ├── block
│   ├── config_router_refresh.sh
│   ├── dat2gui.sh
│   ├── defaultconfig
│   ├── devinfo2dat.sh
│   ├── devstatus
│   ├── dnssd
│   ├── firewall.sh
│   ├── firstboot
│   ├── fw3
│   ├── fwcron
│   ├── fwupgrade
│   ├── get_arabic_css.sh
│   ├── getdevinfo.sh
│   ├── getipconfig.sh
│   ├── getpid.sh
│   ├── getpstats.sh
│   ├── get_version.sh
│   └── gpstats.sh

```



- └─ gui2wifidat.sh
- └─ guiwifi2dat.sh
- └─ guiwifibeam2dat.sh
- └─ guiwifibridge2dat.sh
- └─ guiwififilter2dat.sh
- └─ guiwifiguest2dat.sh
- └─ guiwifiQoS2dat.sh
- └─ guiwifisecurity2dat.sh
- └─ guiwifiwps2dat.sh
- └─ halt -> ../bin/busybox
- └─ hotplug-call
- └─ hwclock -> ../bin/busybox
- └─ ifconfig -> ../bin/busybox
- └─ ifdown -> ifup
- └─ ifstatus
- └─ ifup
- └─ init
- └─ ip -> ../bin/busybox
- └─ jffs2mark -> jffs2reset
- └─ jffs2reset
- └─ kmodloader
- └─ led.sh
- └─ logd
- └─ logread
- └─ macaddr.sh
- └─ mgmt\_cron.sh
- └─ mkswap -> ../bin/busybox
- └─ mount\_root
- └─ mtd
- └─ mtk\_factory\_rw.sh
- └─ mtkhnat
- └─ mtkwifi.sh
- └─ netbios
- └─ netifd
- └─ pack\_incoming\_log.sh
- └─ pack\_outgoing\_log.sh
- └─ pack\_security\_log.sh
- └─ pivot\_root -> ../bin/busybox
- └─ poweroff -> ../bin/busybox
- └─ procd
- └─ qos\_setting.sh
- └─ reboot -> ../bin/busybox
- └─ reload\_config
- └─ route -> ../bin/busybox
- └─ rpcd
- └─ service\_adv\_route.sh
- └─ service\_firewall\_DMZ.sh
- └─ service\_firewall\_ipv6.sh
- └─ service\_firewall\_mgmt.sh

- └─ service\_firewall\_portforwarding.sh
- └─ service\_firewall\_porttriggering.sh
- └─ service\_firewall\_singleport.sh
- └─ service\_firewall\_spi.sh
- └─ service\_guest\_lan.sh
- └─ service\_init.sh
- └─ service\_lan\_restart.sh
- └─ service\_parental\_ctrl.sh
- └─ service\_quagga.sh
- └─ service\_sip\_alg.sh
- └─ service\_tsmb.sh
- └─ service\_upnp.sh
- └─ service\_vpn\_passthrough.sh
- └─ service\_vsftpd.sh
- └─ service\_wifi\_bridge.sh
- └─ sigma
- └─ smp.sh
- └─ start-stop-daemon -> ../bin/busybox
- └─ stoping.sh
- └─ storage\_mount.sh
- └─ swconfig
- └─ switch\_root -> ../bin/busybox
- └─ sysctl -> ../bin/busybox
- └─ sysupgrade
- └─ traffic\_log\_init.sh
- └─ transmit\_region.sh
- └─ trigger\_ctrl
- └─ trigger\_srv
- └─ ubusd
- └─ uci
- └─ udevtrigger
- └─ udhcpc -> ../bin/busybox
- └─ update\_lan\_ip\_of\_rules.sh
- └─ updatepid.sh
- └─ upgraded
- └─ urandom\_seed
- └─ url.txt
- └─ validate\_data
- └─ vconfig -> ../bin/busybox
- └─ vlan\_trigger.sh
- └─ wan\_guard
- └─ wanled
- └─ wfa\_ca
- └─ wfa\_dut
- └─ wfaping6.sh
- └─ wfaping.sh
- └─ wfa\_test\_cli.sh
- └─ wifi
- └─ wifi.legacy

```

├─ wireless_client_maintain
├─ wizard_block_traffic.sh
├─ wps_mon
├─ wtbd
├─ zcip -> ../bin/busybox
├─ zcip.script
├─ sys
├─ tmp
├─ usr
├─ bin
│   ├── [ -> ../..bin/busybox
│   ├── [[ -> ../..bin/busybox
│   ├── 1905ctrl
│   ├── 8021xd
│   ├── at
│   ├── ated
│   ├── atq -> at
│   ├── atrm -> at
│   ├── avahi-browse
│   ├── avahi-browse-domains
│   ├── avahi-publish
│   ├── avahi-publish-address
│   ├── avahi-publish-service
│   ├── avahi-resolve
│   ├── avahi-resolve-address
│   ├── avahi-resolve-host-name
│   ├── avahi-set-host-name
│   ├── awk -> ../..bin/busybox
│   ├── basename -> ../..bin/busybox
│   ├── bndstrg2
│   ├── bunzip2 -> ../..bin/busybox
│   ├── bzcat -> ../..bin/busybox
│   ├── chage
│   ├── clear -> ../..bin/busybox
│   ├── cmp -> ../..bin/busybox
│   ├── crontab -> ../..bin/busybox
│   ├── curl
│   ├── cut -> ../..bin/busybox
│   ├── datconf
│   ├── dbus-launch
│   ├── dbus-launch.real
│   ├── dbus-uuidgen
│   ├── dirname -> ../..bin/busybox
│   ├── du -> ../..bin/busybox
│   ├── env -> ../..bin/busybox
│   ├── expr -> ../..bin/busybox
│   ├── find -> ../..bin/busybox
│   ├── free -> ../..bin/busybox
│   ├── fwdd

```

```

|— fwtool
|— gdbserver
|— getrandom
|— head -> ../../bin/busybox
|— hexdump -> ../../bin/busybox
|— id -> ../../bin/busybox
|— iperf
|— iperf3
|— iwininfo
|— jshn
|— jsonfilter
|— killall -> ../../bin/busybox
|— kvccedit
|— less -> ../../bin/busybox
|— logger -> ../../bin/busybox
|— lspci -> ../../bin/busybox
|— lsusb -> ../../bin/busybox
|— lua
|— mbo_nr.sh
|— md5sum -> ../../bin/busybox
|— mii_mgr
|— mii_mgr_cl45
|— mkfifo -> ../../bin/busybox
|— mtdc_test
|— natpmpc
|— nc -> ../../bin/busybox
|— nmap
|— nohup -> ../../bin/busybox
|— nslookup -> ../../bin/busybox
|— nsupdate
|— nvram_get
|— nvram_set -> /usr/bin/nvram_get
|— openssl
|— p1905_managerd
|— passwd -> ../../bin/busybox
|— pgrep -> ../../bin/busybox
|— printf -> ../../bin/busybox
|— qdma
|— readlink -> ../../bin/busybox
|— regs
|— relayr
|— reset -> ../../bin/busybox
|— resolveip
|— sd_rw_test.sh
|— seq -> ../../bin/busybox
|— sha256sum -> ../../bin/busybox
|— signify -> usign
|— sort -> ../../bin/busybox
|— strings -> ../../bin/busybox

```

- └─ switch
- └─ tail -> ../../bin/busybox
- └─ tee -> ../../bin/busybox
- └─ test -> ../../bin/busybox
- └─ tftp -> ../../bin/busybox
- └─ time -> ../../bin/busybox
- └─ top -> ../../bin/busybox
- └─ tp\_ts\_switch.sh
- └─ tr -> ../../bin/busybox
- └─ traceroute -> ../../bin/busybox
- └─ traceroute6 -> ../../bin/busybox
- └─ uniq -> ../../bin/busybox
- └─ uptime -> ../../bin/busybox
- └─ usign
- └─ uuidgen
- └─ wapp
- └─ wappctrl
- └─ wapp\_openwrt.sh
- └─ wc -> ../../bin/busybox
- └─ wget -> wget-ssl
- └─ wget-ssl
- └─ which -> ../../bin/busybox
- └─ wificonf
- └─ wifi\_config\_save
- └─ xargs -> ../../bin/busybox
- └─ yes -> ../../bin/busybox
- └─ lib
  - └─ dbus-1
    - └─ dbus-daemon-launch-helper
  - └─ ddns
    - └─ dynamic\_dns\_functions.sh
    - └─ dynamic\_dns\_lucihelper.sh
    - └─ dynamic\_dns\_updater.sh
    - └─ update\_cloudflare\_com\_v1.sh
    - └─ update\_cloudflare\_com\_v4.sh
    - └─ update\_dyndns\_org.sh
    - └─ update\_godaddy\_com\_v1.sh
    - └─ update\_no-ip\_com.sh
    - └─ update\_nsupdate.sh
  - └─ ebtables
    - └─ libebt\_802\_3.so
    - └─ libebtable\_broute.so
    - └─ libebtable\_filter.so
    - └─ libebtable\_nat.so
    - └─ libebt\_among.so
    - └─ libebt\_arpreply.so
    - └─ libebt\_arp.so
    - └─ libebt\_ip6.so
    - └─ libebt\_ip.so

- └─ libebt\_limit.so
- └─ libebt\_log.so
- └─ libebt\_mark\_m.so
- └─ libebt\_mark.so
- └─ libebt\_nat.so
- └─ libebt\_nflog.so
- └─ libebt\_pkttype.so
- └─ libebt\_redirect.so
- └─ libebt\_standard.so
- └─ libebt\_stp.so
- └─ libebt\_ulog.so
- └─ libebt\_vlan.so
- └─ iptables
  - └─ libip6t\_hl.so
  - └─ libip6t\_HL.so
  - └─ libipt\_ECN.so
  - └─ libipt\_ttl.so
  - └─ libipt\_TTL.so
  - └─ libxt\_CLASSIFY.so
  - └─ libxt\_connbytes.so
  - └─ libxt\_connlimit.so
  - └─ libxt\_connmark.so
  - └─ libxt\_CONNMARK.so
  - └─ libxt\_dscp.so
  - └─ libxt\_DSCP.so
  - └─ libxt\_ecn.so
  - └─ libxt\_helper.so
  - └─ libxt\_length.so
  - └─ libxt\_NFQUEUE.so
  - └─ libxt\_recent.so
  - └─ libxt\_statistic.so
  - └─ libxt\_tcpmss.so
  - └─ libxt\_tos.so
  - └─ libxt\_TOS.so
- └─ libavahi-client.so.3 -> libavahi-client.so.3.2.9
- └─ libavahi-client.so.3.2.9
- └─ libavahi-common.so.3 -> libavahi-common.so.3.5.3
- └─ libavahi-common.so.3.5.3
- └─ libavahi-core.so.7 -> libavahi-core.so.7.0.2
- └─ libavahi-core.so.7.0.2
- └─ libbind9.so -> libbind9.so.140.0.11
- └─ libbind9.so.140 -> libbind9.so.140.0.11
- └─ libbind9.so.140.0.11
- └─ libblkid.so -> libblkid.so.1
- └─ libblkid.so.1 -> libblkid.so.1.1.0
- └─ libblkid.so.1.1.0
- └─ libbtdrv.so
- └─ libcjson.so
- └─ libcrypto.so.1.0.0

libcurl.so.4 -> libcurl.so.4.5.0  
libcurl.so.4.5.0  
libdaemon.so.0 -> libdaemon.so.0.5.0  
libdaemon.so.0.5.0  
libdbus-1.so.3 -> libdbus-1.so.3.14.5  
libdbus-1.so.3.14.5  
libdns.so -> libdns.so.165.0.4  
libdns.so.165 -> libdns.so.165.0.4  
libdns.so.165.0.4  
libebtc.so  
libelf.so  
libelf.so.1 -> libelf.so  
libeth\_1905ops.so  
libexpat.so.1 -> libexpat.so.1.6.2  
libexpat.so.1.6.2  
libgdbm.so.4 -> libgdbm.so.4.0.0  
libgdbm.so.4.0.0  
libip4tc.so -> libip4tc.so.0.1.0  
libip4tc.so.0 -> libip4tc.so.0.1.0  
libip4tc.so.0.1.0  
libip6tc.so -> libip6tc.so.0.1.0  
libip6tc.so.0 -> libip6tc.so.0.1.0  
libip6tc.so.0.1.0  
libiptext4.so  
libiptext6.so  
libiptext.so  
libirs.so -> libirs.so.141.0.4  
libirs.so.141 -> libirs.so.141.0.4  
libirs.so.141.0.4  
libisccc.so -> libisccc.so.140.0.4  
libisccc.so.140 -> libisccc.so.140.0.4  
libisccc.so.140.0.4  
libisccfg.so -> libisccfg.so.140.3.1  
libisccfg.so.140 -> libisccfg.so.140.3.1  
libisccfg.so.140.3.1  
libisc.so -> libisc.so.160.1.2  
libisc.so.160 -> libisc.so.160.1.2  
libisc.so.160.1.2  
libiwinfo.so  
libjson-c.so.2 -> libjson-c.so.2.0.2  
libjson-c.so.2.0.2  
liblua.so.5.1.5  
liblwres.so -> liblwres.so.141.0.3  
liblwres.so.141 -> liblwres.so.141.0.3  
liblwres.so.141.0.3  
libmbedcrypto.so -> libmbedcrypto.so.1  
libmbedcrypto.so.1 -> libmbedcrypto.so.2.7.0  
libmbedcrypto.so.2.7.0  
libmbedtls.so -> libmbedtls.so.10

libmbedtls.so.10 -> libmbedtls.so.2.7.0  
libmbedtls.so.2.7.0  
libmbedx509.so -> libmbedx509.so.0  
libmbedx509.so.0 -> libmbedx509.so.2.7.0  
libmbedx509.so.2.7.0  
libmnl.so.0 -> libmnl.so.0.2.0  
libmnl.so.0.2.0  
libmtd.so  
libnatpmp.so.1  
libnetfilter\_conntrack.so.3 -> libnetfilter\_conntrack.so.3.6.0  
libnetfilter\_conntrack.so.3.6.0  
libnetfilter\_cthelper.so.0 -> libnetfilter\_cthelper.so.0.0.0  
libnetfilter\_cthelper.so.0.0.0  
libnetfilter\_cttimeout.so.1 -> libnetfilter\_cttimeout.so.1.0.0  
libnetfilter\_cttimeout.so.1.0.0  
libnetfilter\_queue.so.1 -> libnetfilter\_queue.so.1.3.0  
libnetfilter\_queue.so.1.3.0  
libnfnetlink.so.0 -> libnfnetlink.so.0.2.0  
libnfnetlink.so.0.2.0  
libnl-3.so -> libnl-3.so.200.24.0  
libnl-3.so.200 -> libnl-3.so.200.24.0  
libnl-3.so.200.24.0  
libnl-genl-3.so -> libnl-genl-3.so.200.24.0  
libnl-genl-3.so.200 -> libnl-genl-3.so.200.24.0  
libnl-genl-3.so.200.24.0  
libnl-genl.so -> libnl-genl-3.so.200.24.0  
libnl-nf-3.so -> libnl-nf-3.so.200.24.0  
libnl-nf-3.so.200 -> libnl-nf-3.so.200.24.0  
libnl-nf-3.so.200.24.0  
libnl-nf.so -> libnl-nf-3.so.200.24.0  
libnl-route-3.so -> libnl-route-3.so.200.24.0  
libnl-route-3.so.200 -> libnl-route-3.so.200.24.0  
libnl-route-3.so.200.24.0  
libnl-route.so -> libnl-route-3.so.200.24.0  
libnl.so -> libnl-3.so.200.24.0  
libnl-tiny.so  
libpcap.so -> libpcap.so.1  
libpcap.so.1  
libpcrposix.so.0 -> libpcrposix.so.0.0.5  
libpcrposix.so.0.0.5  
libpcr.so -> libpcr.so.1.2.9  
libpcr.so.1 -> libpcr.so.1.2.9  
libpcr.so.1.2.9  
libpopt.so.0 -> libpopt.so.0.0.0  
libpopt.so.0.0.0  
libssl.so.1.0.0  
libstdc++.so.6 -> libstdc++.so.6.0.21  
libstdc++.so.6.0.21  
libstdc++.so.6.0.21-gdb.py



- └─ libuclient.so
- └─ libuuid.so -> libuuid.so.1
- └─ libuuid.so.1 -> libuuid.so.1.3.0
- └─ libuuid.so.1.3.0
- └─ libxtables.so -> libxtables.so.12.0.0
- └─ libxtables.so.12 -> libxtables.so.12.0.0
- └─ libxtables.so.12.0.0
- └─ libzebra.so.1 -> libzebra.so.1.0.0
- └─ libzebra.so.1.0.0
- └─ libz.so -> libz.so.1.2.11
- └─ libz.so.1 -> libz.so.1.2.11
- └─ libz.so.1.2.11
- └─ lighttpd
  - └─ mod\_accesslog.so
  - └─ mod\_access.so
  - └─ mod\_alias.so
  - └─ mod\_auth.so
  - └─ mod\_cgi.so
  - └─ mod\_compress.so
  - └─ mod\_dirlisting.so
  - └─ mod\_fastcgi.so
  - └─ mod\_indexfile.so
  - └─ mod\_redirect.so
  - └─ mod\_scgi.so
  - └─ mod\_setenv.so
  - └─ mod\_ssi.so
  - └─ mod\_staticfile.so
  - └─ mod\_status.so
- └─ lua
  - └─ datconf.so
  - └─ iwinform.so
  - └─ ltn12.lua
  - └─ luci
    - └─ controller
      - └─ firewall.lua
    - └─ ip.so
    - └─ jsonc.so
    - └─ model
      - └─ cbi
        - └─ firewall
          - └─ custom.lua
          - └─ forward-details.lua
          - └─ forwards.lua
          - └─ rule-details.lua
          - └─ rules.lua
          - └─ zone-details.lua
          - └─ zones.lua
    - └─ tools
      - └─ firewall.lua

```

└─ view
    └─ firewall
        ├── cbi_addforward.htm
        ├── cbi_addrule.htm
        └─ cbi_addsnat.htm
mime
└─ core.so -> ../mime.so.1.0.3
mime.lua
mime.so.1.0.3
nixio
└─ fs.lua
    └─ util.lua
nixio.so
shuci.lua
socket
└─ core.so -> ../socket.so.3.0-rc1
    ├── ftp.lua
    ├── headers.lua
    ├── http.lua
    ├── smtp.lua
    ├── tp.lua
    ├── unix.so
    └─ url.lua
socket.lua
socket.so.3.0-rc1
ubus.so
uci.so
└─ uuid.lua
opkg
└─ info
    ├── 1905daemon.control
    ├── 1905daemon.list
    ├── 6rd.control
    ├── 6rd.list
    ├── 8021xd.control
    ├── 8021xd.list
    ├── air_monitor.control
    ├── air_monitor.list
    ├── at.control
    ├── ated_ext.control
    ├── ated_ext.list
    ├── at.list
    ├── avahi-daemon-service-http.conffiles
    ├── avahi-daemon-service-http.control
    ├── avahi-daemon-service-http.list
    ├── avahi-daemon-service-ssh.conffiles
    ├── avahi-daemon-service-ssh.control
    ├── avahi-daemon-service-ssh.list
    └─ avahi-dbus-daemon.conffiles

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						—	avahi-dbus-daemon.control
						—	avahi-dbus-daemon.list
						—	avahi-utils.control
						—	avahi-utils.list
						—	base-files.conffiles
						—	base-files.control
						—	base-files.list
						—	bind-client.control
						—	bind-client.list
						—	bind-libs.control
						—	bind-libs.list
						—	blkid.control
						—	blkid.list
						—	block-mount.control
						—	block-mount.list
						—	bndstrg_plus.control
						—	bndstrg_plus.list
						—	busybox.control
						—	busybox.list
						—	ca-bundle.control
						—	ca-bundle.list
						—	ca-certificates.control
						—	ca-certificates.list
						—	conntrack.control
						—	conntrack.list
						—	curl.control
						—	curl.list
						—	datconf.control
						—	datconf.list
						—	datconf-lua.control
						—	datconf-lua.list
						—	dbus.control
						—	dbus.list
						—	ddns-scripts_cloudflare.com-v4.control
						—	ddns-scripts_cloudflare.com-v4.list
						—	ddns-scripts_cloudflare.com-v4.preinst
						—	ddns-scripts_cloudflare.control
						—	ddns-scripts_cloudflare.list
						—	ddns-scripts_cloudflare.preinst
						—	ddns-scripts.conffiles
						—	ddns-scripts.control
						—	ddns-scripts_godaddy.com-v1.control
						—	ddns-scripts_godaddy.com-v1.list
						—	ddns-scripts_godaddy.com-v1.preinst
						—	ddns-scripts.list
						—	ddns-scripts_no-ip_com.control
						—	ddns-scripts_no-ip_com.list
						—	ddns-scripts_no-ip_com.preinst
						—	ddns-scripts_nsupdate.control

					— ddns-scripts_nsupdate.list
					— ddns-scripts_nsupdate.preinst
					— ddns-scripts.preinst
					— dnsmasq.conffiles
					— dnsmasq.control
					— dnsmasq.list
					— ebtables.control
					— ebtables.list
					— ethtool.control
					— ethtool.list
					— firewall.conffiles
					— firewall.control
					— firewall.list
					— flash_test.control
					— flash_test.list
					— fstools.control
					— fstools.list
					— fwdd.control
					— fwdd.list
					— fwtool.control
					— fwtool.list
					— gdbserver.control
					— gdbserver.list
					— hostapd-common.control
					— hostapd-common.list
					— igmpproxy.conffiles
					— igmpproxy.control
					— igmpproxy.list
					— ip6tables.control
					— ip6tables.list
					— iperf3.control
					— iperf3.list
					— iperf.control
					— iperf.list
					— iptables.control
					— iptables.list
					— iptables-mod-contrack-extra.control
					— iptables-mod-contrack-extra.list
					— iptables-mod-ipopt.control
					— iptables-mod-ipopt.list
					— iptables-mod-nfqueue.control
					— iptables-mod-nfqueue.list
					— iwinfo.control
					— iwinfo.list
					— jshn.control
					— jshn.list
					— jsonfilter.control
					— jsonfilter.list
					— kernel.control

					— kernel.list
					— kmod-ata-ahci-mtk.control
					— kmod-ata-ahci-mtk.list
					— kmod-ata-core.control
					— kmod-ata-core.list
					— kmod-bridge.control
					— kmod-bridge.list
					— kmod-br-netfilter.control
					— kmod-br-netfilter.list
					— kmod-crypto-aead.control
					— kmod-crypto-aead.list
					— kmod-crypto-arc4.control
					— kmod-crypto-arc4.list
					— kmod-crypto-authenc.control
					— kmod-crypto-authenc.list
					— kmod-cryptodev.control
					— kmod-cryptodev.list
					— kmod-crypto-ecb.control
					— kmod-crypto-ecb.list
					— kmod-crypto-hash.control
					— kmod-crypto-hash.list
					— kmod-crypto-manager.control
					— kmod-crypto-manager.list
					— kmod-crypto-null.control
					— kmod-crypto-null.list
					— kmod-crypto-pcompress.control
					— kmod-crypto-pcompress.list
					— kmod-crypto-sha1.control
					— kmod-crypto-sha1.list
					— kmod-ebtables.control
					— kmod-ebtables-ipv4.control
					— kmod-ebtables-ipv4.list
					— kmod-ebtables.list
					— kmod-gpio-button-hotplug.control
					— kmod-gpio-button-hotplug.list
					— kmod-gre.control
					— kmod-gre.list
					— kmod-ifb.control
					— kmod-ifb.list
					— kmod-ip6tables.control
					— kmod-ip6tables.list
					— kmod-ipt-contrack.control
					— kmod-ipt-contrack-extra.control
					— kmod-ipt-contrack-extra.list
					— kmod-ipt-contrack.list
					— kmod-ipt-core.control
					— kmod-ipt-core.list
					— kmod-ipt-ipopt.control
					— kmod-ipt-ipopt.list

					— kmod-ipt-nat.control
					— kmod-ipt-nat.list
					— kmod-ipt-nfqueue.control
					— kmod-ipt-nfqueue.list
					— kmod-iptunnel4.control
					— kmod-iptunnel4.list
					— kmod-iptunnel.control
					— kmod-iptunnel.list
					— kmod-l2tp.control
					— kmod-l2tp.list
					— kmod-lib-crc-ccitt.control
					— kmod-lib-crc-ccitt.list
					— kmod-lib-textsearch.control
					— kmod-lib-textsearch.list
					— kmod-llc.control
					— kmod-llc.list
					— kmod-mapfilter.control
					— kmod-mapfilter.list
					— kmod-mediatek_hnat.control
					— kmod-mediatek_hnat.list
					— kmod-mmc.control
					— kmod-mmc.list
					— kmod-mppe.control
					— kmod-mppe.list
					— kmod-mt7622.control
					— kmod-mt7622.list
					— kmod-mt fwd.control
					— kmod-mt fwd.list
					— kmod-mt_wifi.control
					— kmod-mt_wifi.list
					— kmod-nf-contrack6.control
					— kmod-nf-contrack6.list
					— kmod-nf-contrack.control
					— kmod-nf-contrack.list
					— kmod-nf-contrack-netlink.control
					— kmod-nf-contrack-netlink.list
					— kmod-nf-ipt6.control
					— kmod-nf-ipt6.list
					— kmod-nf-ipt.control
					— kmod-nf-ipt.list
					— kmod-nf-nat.control
					— kmod-nf-nathelper.control
					— kmod-nf-nathelper-extra.control
					— kmod-nf-nathelper-extra.list
					— kmod-nf-nathelper.list
					— kmod-nf-nat.list
					— kmod-nfnetlink.control
					— kmod-nfnetlink.list
					— kmod-nfnetlink-queue.control

					— kmod-nfnetlink-queue.list
					— kmod-nls-base.control
					— kmod-nls-base.list
					— kmod-ppp.control
					— kmod-ppp.list
					— kmod-pppoe.control
					— kmod-pppoe.list
					— kmod-pppol2tp.control
					— kmod-pppol2tp.list
					— kmod-pppox.control
					— kmod-pppox.list
					— kmod-pptp.control
					— kmod-pptp.list
					— kmod-sched-connmark.control
					— kmod-sched-connmark.list
					— kmod-sched-core.control
					— kmod-sched-core.list
					— kmod-scsi-core.control
					— kmod-scsi-core.list
					— kmod-sdhci.control
					— kmod-sdhci.list
					— kmod-sdhci-mtk.control
					— kmod-sdhci-mtk.list
					— kmod-sit.control
					— kmod-sit.list
					— kmod-slhc.control
					— kmod-slhc.list
					— kmod-stp.control
					— kmod-stp.list
					— kmod-udptunnel4.control
					— kmod-udptunnel4.list
					— kmod-udptunnel6.control
					— kmod-udptunnel6.list
					— kmod-usb2.control
					— kmod-usb2.list
					— kmod-usb3.control
					— kmod-usb3.list
					— kmod-usb-core.control
					— kmod-usb-core.list
					— kmod-usb-ohci.control
					— kmod-usb-ohci.list
					— kmod-usb-storage.control
					— kmod-usb-storage.list
					— kvccedit.control
					— kvccedit.list
					— lede-keyring.control
					— lede-keyring.list
					— libavahi-client.control
					— libavahi-client.list

					libavahi-dbus-support.control
					libavahi-dbus-support.list
					libblkid.control
					libblkid.list
					libblobmsg-json.control
					libblobmsg-json.list
					libc.control
					libc.list
					libcurl.control
					libcurl.list
					libdaemon.control
					libdaemon.list
					libdbus.control
					libdbus.list
					libelf1.control
					libelf1.list
					libexpat.control
					libexpat.list
					libgcc.control
					libgcc.list
					libgdbm.control
					libgdbm.list
					libip4tc.control
					libip4tc.list
					libip6tc.control
					libip6tc.list
					libiwinfo.control
					libiwinfo.list
					libiwinfo-lua.control
					libiwinfo-lua.list
					libjson-c.control
					libjson-c.list
					libjson-script.control
					libjson-script.list
					libkvcutil.control
					libkvcutil.list
					liblua.control
					liblua.list
					libmbedtls.control
					libmbedtls.list
					libmnl.control
					libmnl.list
					libnatpmp.control
					libnatpmp.list
					libnetfilter-conntrack.control
					libnetfilter-conntrack.list
					libnetfilter-cthelper.control
					libnetfilter-cthelper.list
					libnetfilter-cttimeout.control



					libnetfilter-cttimeout.list
					libnetfilter-queue.control
					libnetfilter-queue.list
					libnfnetlink.control
					libnfnetlink.list
					libnl.control
					libnl-core.control
					libnl-core.list
					libnl-genl.control
					libnl-genl.list
					libnl.list
					libnl-nf.control
					libnl-nf.list
					libnl-route.control
					libnl-route.list
					libnl-tiny.control
					libnl-tiny.list
					libopenssl.control
					libopenssl.list
					libpcap.control
					libpcap.list
					libpcrc.control
					libpcrc.list
					libpopt.control
					libpopt.list
					libpthread.control
					libpthread.list
					librpc.control
					librpc.list
					librt.control
					librt.list
					libssp.control
					libssp.list
					libstdcpp.control
					libstdcpp.list
					libthread-db.control
					libthread-db.list
					libubox.control
					libubox.list
					libubus.control
					libubus.list
					libubus-lua.control
					libubus-lua.list
					libuci.control
					libuci.list
					libuci-lua.control
					libuci-lua.list
					libuclient.control
					libuclient.list

					— libuuid.control
					— libuuid.list
					— libxtables.control
					— libxtables.list
					— lighttpd.conf
					— lighttpd.control
					— lighttpd.list
					— lighttpd-mod-access.control
					— lighttpd-mod-access.list
					— lighttpd-mod-accesslog.control
					— lighttpd-mod-accesslog.list
					— lighttpd-mod-alias.control
					— lighttpd-mod-alias.list
					— lighttpd-mod-auth.control
					— lighttpd-mod-auth.list
					— lighttpd-mod-cgi.control
					— lighttpd-mod-cgi.list
					— lighttpd-mod-compress.control
					— lighttpd-mod-compress.list
					— lighttpd-mod-fastcgi.control
					— lighttpd-mod-fastcgi.list
					— lighttpd-mod-redirect.control
					— lighttpd-mod-redirect.list
					— lighttpd-mod-scgi.control
					— lighttpd-mod-scgi.list
					— lighttpd-mod-setenv.control
					— lighttpd-mod-setenv.list
					— lighttpd-mod-ssi.control
					— lighttpd-mod-ssi.list
					— lighttpd-mod-status.control
					— lighttpd-mod-status.list
					— lmbench.control
					— lmbench.list
					— lmbench-lmdd.control
					— lmbench-lmdd.list
					— logd.control
					— logd.list
					— logrotate.conf
					— logrotate.control
					— logrotate.list
					— lua.control
					— lua.list
					— luasocket.control
					— luasocket.list
					— luci-app-firewall.control
					— luci-app-firewall.list
					— luci-lib-ip.control
					— luci-lib-ip.list
					— luci-lib-jsonc.control

					— luci-lib-jsonc.list
					— luci-lib-nixio.control
					— luci-lib-nixio.list
					— malloctest.control
					— malloctest.list
					— memtester.control
					— memtester.list
					— mii_mgr.control
					— mii_mgr.list
					— miniupnpd.conf files
					— miniupnpd.control
					— miniupnpd.list
					— mtd.control
					— mtd.list
					— mtk-base-files.control
					— mtk-base-files.list
					— mtk_factory_rw.control
					— mtk_factory_rw.list
					— mtkhnat_util.control
					— mtkhnat_util.list
					— natpmpc.control
					— natpmpc.list
					— netbios.control
					— netbios.list
					— netifd.control
					— netifd.list
					— nmap.control
					— nmap.list
					— odhcp6c.control
					— odhcp6c.list
					— odhcpd.control
					— odhcpd.list
					— openssl-util.conf files
					— openssl-util.control
					— openssl-util.list
					— opkg.conf files
					— opkg.control
					— opkg.list
					— ppp.conf files
					— ppp.control
					— ppp.list
					— ppp-mod-pppoe.control
					— ppp-mod-pppoe.list
					— ppp-mod-pppol2tp.control
					— ppp-mod-pppol2tp.list
					— ppp-mod-pptp.control
					— ppp-mod-pptp.list
					— pppoe-discovery.control
					— pppoe-discovery.list

					— procd.control
					— procd.list
					— procd-nand.control
					— procd-nand.list
					— proprietary.control
					— proprietary.list
					— qdma.control
					— qdma.list
					— quagga.control
					— quagga-libzebra.control
					— quagga-libzebra.list
					— quagga.list
					— quagga-ripd.conf files
					— quagga-ripd.control
					— quagga-ripd.list
					— quagga-watchquagga.control
					— quagga-watchquagga.list
					— quagga-zebra.conf files
					— quagga-zebra.control
					— quagga-zebra.list
					— regs.control
					— regs.list
					— relayer.control
					— relayer.list
					— resolveip.control
					— resolveip.list
					— rpcd.conf files
					— rpcd.control
					— rpcd.list
					— shadow-chage.control
					— shadow-chage.list
					— shadow-common.conf files
					— shadow-common.control
					— shadow-common.list
					— shadow-groupadd.control
					— shadow-groupadd.list
					— shadow-groupdel.control
					— shadow-groupdel.list
					— shadow-groupmod.control
					— shadow-groupmod.list
					— shadow-useradd.control
					— shadow-useradd.list
					— shadow-userdel.control
					— shadow-userdel.list
					— shadow-usermod.control
					— shadow-usermod.list
					— shadow-utils.control
					— shadow-utils.list
					— sigma_dut.control

					— sigma_dut.list
					— swconfig.control
					— swconfig.list
					— switch.control
					— switch.list
					— tc.control
					— tc.list
					— tcpdump.control
					— tcpdump.list
					— tuxera.control
					— tuxera.list
					— ubi-utils.control
					— ubi-utils.list
					— ubox.control
					— ubox.list
					— ubus.control
					— ubusd.control
					— ubusd.list
					— ubus.list
					— uci.control
					— uci.list
					— uclient-fetch.control
					— uclient-fetch.list
					— usign.control
					— usign.list
					— uuid.control
					— uuidd.control
					— uuidd.list
					— uuidgen.control
					— uuidgen.list
					— uuid.list
					— vsftpd.conf
					— vsftpd.conf
					— vsftpd.conf
					— wapp.control
					— wapp.list
					— wget.control
					— wget.list
					— wificonf.control
					— wificonf.list
					— wifi-profile.control
					— wifi-profile.list
					— wireless-tools.control
					— wireless-tools.list
					— wpad-mini.control
					— wpad-mini.list
					— xl2tpd.conf
					— xl2tpd.conf
					— xl2tpd.conf

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├─ zlib.control
├─ zlib.list
├─ zoneinfo-africa.control
├─ zoneinfo-africa.list
├─ zoneinfo-asia.control
├─ zoneinfo-asia.list
├─ zoneinfo-atlantic.control
├─ zoneinfo-atlantic.list
├─ zoneinfo-australasia.control
├─ zoneinfo-australasia.list
├─ zoneinfo-europe.control
├─ zoneinfo-europe.list
├─ zoneinfo-northamerica.control
├─ zoneinfo-northamerica.list
├─ zoneinfo-pacific.control
├─ zoneinfo-pacific.list
├─ zoneinfo-southamerica.control
├─ zoneinfo-southamerica.list
├─ lists
├─ status
├─ os-release
├─ pppd
├─ 2.4.7
├─ pppol2tp.so
├─ pptp.so
├─ rp-pppoe.so
├─ lib64 -> lib
├─ libexec
├─ login.sh
├─ sbin
├─ 6rdcalc
├─ adduser -> ../../bin/busybox
├─ atd
├─ avahi-daemon
├─ blkid
├─ brctl -> ../../bin/busybox
├─ chroot -> ../../bin/busybox
├─ conntrack
├─ crond -> ../../bin/busybox
├─ dbus-daemon
├─ deluser -> ../../bin/busybox
├─ dnsmasq
├─ ebttables
├─ ethtool
├─ groupadd
├─ groupdel
├─ groupmod
├─ hostapd -> wpad
├─ hwnat-disable.sh

```

```
|— hwnat-enable.sh
|— igmpproxy
|— insmod -> ../../sbin/kmodloader
|— ip6tables -> xtables-multi
|— ip6tables-restore -> xtables-multi
|— ip6tables-save -> xtables-multi
|— iptables -> xtables-multi
|— iptables-restore -> xtables-multi
|— iptables-save -> xtables-multi
|— iwconfig
|— iwlist -> iwconfig
|— iwpriv -> iwconfig
|— lighttpd
|— lmd
|— logrotate
|— lsmod -> ../../sbin/kmodloader
|— memtester
|— miniupnpd
|— modinfo -> ../../sbin/kmodloader
|— modprobe -> ../../sbin/kmodloader
|— ntpd -> ../../bin/busybox
|— ntpd-hotplug
|— odhcp6c
|— odhcpd
|— odhcpd-update
|— opkg-key
|— pppd
|— pppoe-discovery
|— quagga.init
|— ripd
|— rmmod -> ../../sbin/kmodloader
|— swapoff -> ../../sbin/block
|— swapon -> ../../sbin/block
|— tc
|— tcpdump
|— ubiattach
|— ubiblock
|— ubicrc32
|— ubidetach
|— ubiformat
|— ubimkvol
|— ubinfo
|— ubinize
|— ubirename
|— ubirmvol
|— ubirsvol
|— ubiupdatevol
|— useradd
|— userdel
```

```

├── usermod
├── uuidd
├── vsftpd
├── watchquagga
├── wpad
├── wpa_supplicant -> wpad
├── xl2tpd
├── xl2tpd-control
├── xtables-multi
├── zebra
├── share
│   ├── dbus-1
│   │   ├── services
│   │   ├── session.conf
│   │   ├── session.d
│   │   ├── system.conf
│   │   ├── system.d
│   │   └── system-services
│   ├── libiwinform
│   │   └── hardware.txt
│   ├── libubox
│   │   └── jshn.sh
│   ├── miniuconn
│   │   └── firewall.include
│   ├── nmap
│   │   ├── nmap.dtd
│   │   ├── nmap-mac-prefixes
│   │   ├── nmap-os-db
│   │   ├── nmap-payloads
│   │   ├── nmap-protocols
│   │   ├── nmap-rpc
│   │   ├── nmap-service-probes
│   │   ├── nmap-services
│   │   └── nmap.xsl
│   ├── public_suffix_list.dat.gz
│   ├── rpcd
│   │   ├── acl.d
│   │   └── unauthenticated.json
│   ├── udhcpd
│   │   └── default.script
│   └── zoneinfo
│       ├── Africa
│       │   ├── Abidjan
│       │   ├── Accra
│       │   ├── Addis_Ababa
│       │   ├── Algiers
│       │   ├── Asmara
│       │   ├── Asmera
│       │   └── Bamako

```



	— Bangui
	— Banjul
	— Bissau
	— Blantyre
	— Brazzaville
	— Bujumbura
	— Cairo
	— Casablanca
	— Ceuta
	— Conakry
	— Dakar
	— Dar_es_Salaam
	— Djibouti
	— Douala
	— El_Aaiun
	— Freetown
	— Gaborone
	— Harare
	— Johannesburg
	— Juba
	— Kampala
	— Khartoum
	— Kigali
	— Kinshasa
	— Lagos
	— Libreville
	— Lome
	— Luanda
	— Lubumbashi
	— Lusaka
	— Malabo
	— Maputo
	— Maseru
	— Mbabane
	— Mogadishu
	— Monrovia
	— Nairobi
	— Ndjamena
	— Niamey
	— Nouakchott
	— Ouagadougou
	— Porto-Novo
	— Sao_Tome
	— Timbuktu
	— Tripoli
	— Tunis
	— Windhoek
—	America
—	Adak

			— Anchorage
			— Anguilla
			— Antigua
			— Araguaina
			— Argentina
		—	Buenos_Aires
		—	Catamarca
		—	ComodRivadavia
		—	Cordoba
		—	Jujuy
		—	La_Rioja
		—	Mendoza
		—	Rio_Gallegos
		—	Salta
		—	San_Juan
		—	San_Luis
		—	Tucuman
		—	Ushuaia
		—	Aruba
		—	Asuncion
		—	Atikokan
		—	Atka
		—	Bahia
		—	Bahia_Banderas
		—	Barbados
		—	Belem
		—	Belize
		—	Blanc-Sablon
		—	Boa_Vista
		—	Bogota
		—	Boise
		—	Buenos_Aires
		—	Cambridge_Bay
		—	Campo_Grande
		—	Cancun
		—	Caracas
		—	Catamarca
		—	Cayenne
		—	Cayman
		—	Chicago
		—	Chihuahua
		—	Coral_Harbour
		—	Cordoba
		—	Costa_Rica
		—	Creston
		—	Cuiaba
		—	Curacao
		—	Danmarkshavn
		—	Dawson

			— Dawson_Creek
			— Denver
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			— Dominica
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			— Eirunepe
			— El_Salvador
			— Ensenada
			— Fortaleza
			— Fort_Nelson
			— Fort_Wayne
			— Glace_Bay
			— Godthab
			— Goose_Bay
			— Grand_Turk
			— Grenada
			— Guadeloupe
			— Guatemala
			— Guayaquil
			— Guyana
			— Halifax
			— Havana
			— Hermosillo
			— Indiana
		—	Indianapolis
		—	Knox
		—	Marengo
		—	Petersburg
		—	Tell_City
		—	Vevay
		—	Vincennes
		—	Winamac
		—	Indianapolis
		—	Inuvik
		—	Iqaluit
		—	Jamaica
		—	Jujuy
		—	Juneau
		—	Kentucky
		—	Louisville
		—	Monticello
		—	Knox_IN
		—	Kralendijk
		—	La_Paz
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		—	Los_Angeles
		—	Louisville
		—	Lower_Princes
		—	Maceio

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			Mazatlan
			Mendoza
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			Mexico_City
			Miquelon
			Moncton
			Monterrey
			Montevideo
			Montreal
			Montserrat
			Nassau
			New_York
			Nipigon
			Nome
			Noronha
			North_Dakota
			Beulah
			Center
			New_Salem
			Nuuk
			Ojinaga
			Panama
			Pangnirtung
			Paramaribo
			Phoenix
			Port-au-Prince
			Porto_Acre
			Port_of_Spain
			Porto_Velho
			Puerto_Rico
			Punta_Arenas
			Rainy_River
			Rankin_Inlet
			Recife
			Regina
			Resolute
			Rio_Branco
			Rosario
			Santa_Isabel
			Santarem
			Santiago
			Santo_Domingo

- Sao\_Paulo
- Scoresbysund
- Shiprock
- Sitka
- St\_Barthelemy
- St\_Johns
- St\_Kitts
- St\_Lucia
- St\_Thomas
- St\_Vincent
- Swift\_Current
- Tegucigalpa
- Thule
- Thunder\_Bay
- Tijuana
- Toronto
- Tortola
- Vancouver
- Virgin
- Whitehorse
- Winnipeg
- Yakutat
- Yellowknife

— Asia

- Aden
- Almaty
- Amman
- Anadyr
- Aqtau
- Aqtobe
- Ashgabat
- Ashkhabad
- Atyrau
- Baghdad
- Bahrain
- Baku
- Bangkok
- Barnaul
- Beirut
- Bishkek
- Brunei
- Calcutta
- Chita
- Choibalsan
- Chongqing
- Chungking
- Colombo
- Dacca
- Damascus

			— Dhaka
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			— Dubai
			— Dushanbe
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			— Gaza
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			— Hong_Kong
			— Hovd
			— Irkutsk
			— Istanbul
			— Jakarta
			— Jayapura
			— Jerusalem
			— Kabul
			— Kamchatka
			— Karachi
			— Kashgar
			— Kathmandu
			— Katmandu
			— Khandyga
			— Kolkata
			— Krasnoyarsk
			— Kuala_Lumpur
			— Kuching
			— Kuwait
			— Macao
			— Macau
			— Magadan
			— Makassar
			— Manila
			— Muscat
			— Nicosia
			— Novokuznetsk
			— Novosibirsk
			— Omsk
			— Oral
			— Phnom_Penh
			— Pontianak
			— Pyongyang
			— Qatar
			— Qostanay
			— Qyzylorda
			— Rangoon
			— Riyadh
			— Saigon
			— Sakhalin

	— Samarkand
	— Seoul
	— Shanghai
	— Singapore
	— Srednekolymsk
	— Taipei
	— Tashkent
	— Tbilisi
	— Tehran
	— Tel_Aviv
	— Thimbu
	— Thimphu
	— Tokyo
	— Tomsk
	— Ujung_Pandang
	— Ulaanbaatar
	— Ulan_Bator
	— Urumqi
	— Ust-Nera
	— Vientiane
	— Vladivostok
	— Yakutsk
	— Yangon
	— Yekaterinburg
	— Yerevan
—	Atlantic
	— Azores
	— Bermuda
	— Canary
	— Cape_Verde
	— Faeroe
	— Faroe
	— Jan_Mayen
	— Madeira
	— Reykjavik
	— South_Georgia
	— Stanley
	— St_Helena
—	Australia
	— ACT
	— Adelaide
	— Brisbane
	— Broken_Hill
	— Canberra
	— Currie
	— Darwin
	— Eucla
	— Hobart
	— LHI

- Lindeman
- Lord\_Howe
- Melbourne
- North
- NSW
- Perth
- Queensland
- South
- Sydney
- Tasmania
- Victoria
- West
- Yancowinna
- Brazil
  - Acre
  - DeNoronha
  - East
  - West
- Canada
  - Atlantic
  - Central
  - Eastern
  - Mountain
  - Newfoundland
  - Pacific
  - Saskatchewan
  - Yukon
- Chile
  - Continental
  - EasterIsland
- Cuba
- Europe
  - Amsterdam
  - Andorra
  - Astrakhan
  - Athens
  - Belfast
  - Belgrade
  - Berlin
  - Bratislava
  - Brussels
  - Bucharest
  - Budapest
  - Busingen
  - Chisinau
  - Copenhagen
  - Dublin
  - Gibraltar
  - Guernsey



			— Helsinki
			— Isle_of_Man
			— Istanbul
			— Jersey
			— Kaliningrad
			— Kiev
			— Kirov
			— Lisbon
			— Ljubljana
			— London
			— Luxembourg
			— Madrid
			— Malta
			— Mariehamn
			— Minsk
			— Monaco
			— Moscow
			— Nicosia
			— Oslo
			— Paris
			— Podgorica
			— Prague
			— Riga
			— Rome
			— Samara
			— San_Marino
			— Sarajevo
			— Saratov
			— Simferopol
			— Skopje
			— Sofia
			— Stockholm
			— Tallinn
			— Tirane
			— Tiraspol
			— Ulyanovsk
			— Uzhgorod
			— Vaduz
			— Vatican
			— Vienna
			— Vilnius
			— Volgograd
			— Warsaw
			— Zagreb
			— Zaporozhye
			— Zurich
		—	Hongkong
		—	Iceland
		—	Jamaica

	— Japan
	— Kwajalein
	— Mexico
	— BajaNorte
	— BajaSur
	— General
	— Navajo
	— NZ
	— NZ-CHAT
	— Pacific
	— Apia
	— Auckland
	— Bougainville
	— Chatham
	— Chuuk
	— Easter
	— Efate
	— Enderbury
	— Fakaofu
	— Fiji
	— Funafuti
	— Galapagos
	— Gambier
	— Guadalcanal
	— Guam
	— Honolulu
	— Johnston
	— Kiritimati
	— Kosrae
	— Kwajalein
	— Majuro
	— Marquesas
	— Midway
	— Nauru
	— Niue
	— Norfolk
	— Noumea
	— Pago_Pago
	— Palau
	— Pitcairn
	— Pohnpei
	— Ponape
	— Port_Moresby
	— Rarotonga
	— Saipan
	— Samoa
	— Tahiti
	— Tarawa
	— Tongatapu

```

├── Truk
├── Wake
├── Wallis
├── Yap
├── Poland
├── Portugal
├── Singapore
├── US
│   ├── Alaska
│   ├── Aleutian
│   ├── Arizona
│   ├── Central
│   ├── Eastern
│   ├── East-Indiana
│   ├── Hawaii
│   ├── Indiana-Starke
│   ├── Michigan
│   ├── Mountain
│   ├── Pacific
│   └── Samoa
├── var -> /tmp
└── www
    ├── assets
    │   ├── common.js
    │   ├── custom.js
    │   ├── md5_2.js
    │   ├── respond.js
    │   └── share.js
    ├── belkin_css
    │   ├── agreement.css
    │   ├── app.css
    │   ├── arabic.css
    │   ├── bootstrap.min.css
    │   ├── login.css
    │   ├── pages.css
    │   ├── style.min.css
    │   ├── theme.blue.min.css
    │   └── theme.dark.min.css
    ├── block_page.html
    ├── cgi-bin
    │   ├── backup.cgi
    │   ├── example.cgi
    │   ├── portal.cgi
    │   ├── sysinfo.cgi
    │   ├── upgrade.cgi
    │   └── wnc_maccheck.cgi
    ├── config-admin-backup.html
    ├── config-admin-firmware.html
    └── config-admin-gateway.html

```

- └─ config-admin-mgmt.html
- └─ config-admin-password.html
- └─ config-admin-reset.html
- └─ config-admin-tz.html
- └─ config-conn-advance-routing.html
- └─ config-conn-ipv6.html
- └─ config-conn-mac.html
- └─ config-conn-vlan.html
- └─ config-conn-wan.html
- └─ config-storage-account.html
- └─ config-storage-ftp-server.html
- └─ config-wifi-beam.html
- └─ config-wifi-filter.html
- └─ config-wifi-guest.html
- └─ config-wifi-protect.html
- └─ config-wifi-wireless.html
- └─ css
  - └─ agreement.css
  - └─ app.css
  - └─ bootstrap.min.css
  - └─ login.css
  - └─ pages.css
  - └─ style.min.css
  - └─ theme.blue.min.css
  - └─ theme.dark.min.css
- └─ dashboard-configuration-admin.html
- └─ dashboard-configuration.html
- └─ dashboard-configuration-security.html
- └─ dashboard-configuration-storage.html
- └─ dashboard-configuration-wifi.html
- └─ dashboard-consec-ddns.html
- └─ dashboard-consec-DMZ.html
- └─ dashboard-consec-ipv6.html
- └─ dashboard-consec-portforwarding.html
- └─ dashboard-consec-porttriggering.html
- └─ dashboard-consec-qos.html
- └─ dashboard-consec-singleport.html
- └─ dashboard-consec-vpn.html
- └─ dashboard.html
- └─ dashboard-parental-control.html
- └─ dashboard-troubleshooting-diagnostics.html
- └─ dashboard-troubleshooting.html
- └─ eula\_ar.html
- └─ eula\_da.html
- └─ eula\_de.html
- └─ eula\_el.html
- └─ eula\_en.html
- └─ eula\_es.html
- └─ eula-fi.html

- |— eula\_frc.html
- |— eula\_fr.html
- |— eula\_id.html
- |— eula\_it.html
- |— eula\_jp.html
- |— eula\_kr.html
- |— eula\_no.html
- |— eula\_pl.html
- |— eula\_pt\_br.html
- |— eula\_ru.html
- |— eula\_sc.html
- |— eula\_sv.html
- |— eula\_tc.html
- |— eula\_th.html
- |— eula\_tr.html
- |— eula\_vi.html
- |— footer.html
- |— guest\_login.html
- |— img
  - |— 3200wan.png
  - |— 8450wan.png
  - |— attention.png
  - |— belkin-logo-01.svg
  - |— belkin\_logo\_108x30.png
  - |— belkin-logo.svg
  - |— belkin\_menu.png
  - |— bk.jpg
  - |— cross2.png
  - |— cross.png
  - |— Divider.jpg
  - |— dropdownarrows.gif
  - |— dropdownarrows.png
  - |— green.gif
  - |— help\_backarrow.png
  - |— help\_backarrow\_sel.png
  - |— help\_helpicon.png
  - |— help\_nextarrow.png
  - |— help\_nextarrow\_sel.png
  - |— help\_printicon.png
  - |— help\_printicon\_sel.png
  - |— icon\_about.gif
  - |— icon\_alert.gif
  - |— icon\_b\_help.svg
  - |— icon\_b\_logout.svg
  - |— icon\_help.gif
  - |— icon\_help.svg
  - |— icon\_info.gif
  - |— icon\_logout.gif
  - |— icon\_logout.svg

- └─ information.png
- └─ linksys\_bg.png
- └─ Linksys\_logo\_145x20.png
- └─ linksys-logo-blue.svg
- └─ linksys-logo.svg
- └─ linksys-logo-white.svg
- └─ Linksys\_menu.png
- └─ linksys-sprite-aristo.png
- └─ login\_backgroundgrad.jpeg
- └─ login\_errorarrow.png
- └─ logo\_belkin.png
- └─ logo\_linksys\_arabic.png
- └─ logo\_linksys.png
- └─ MacOS\_SelectionPopup.png
- └─ navbarrow\_collapsed.png
- └─ navbarrow\_expanded.png
- └─ navbarrow\_wht\_collapsed.png
- └─ navbarrow\_wht\_expanded.png
- └─ port\_3-belkin.png
- └─ port\_3-linksys.png
- └─ port\_4-belkin.png
- └─ port\_4-linksys.png
- └─ port\_internet-belkin.png
- └─ port\_internet-linksys.png
- └─ radial\_bg.png
- └─ sprite-aristo.png
- └─ trap\_bg.png
- └─ WFA\_WPS\_Mark\_Solo0.gif
- └─ WFA\_WPS\_Mark\_Solo1.gif
- └─ WFA\_WPS\_Mark\_Solo.gif
- └─ Windows\_NetworkPopup.png
- └─ index.html
- └─ js
  - └─ const\_languages.js
  - └─ dynamic\_chagne\_languages.js
  - └─ gui\_common\_api.js
  - └─ jquery-3.4.1.js
  - └─ jquery.metisMenu.js
  - └─ jquery.tablesorter.min.js
  - └─ luxon.min.js
  - └─ moment.js
  - └─ moment-timezone-with-data.js
  - └─ moment-with-locales.js
  - └─ parser-network.min.js
  - └─ polyfill.min.js
  - └─ vue-i18n.js
  - └─ vue.js
  - └─ vue.min.js
- └─ linksys\_css

```

├── agreement.css
├── app.css
├── arabic.css
├── bootstrap.min.css
├── login.css
├── pages.css
├── style.min.css
├── theme.blue.min.css
├── theme.dark.min.css
├── menu.html
├── status-local-network.html
├── status-ports.html
├── status-wireless-network.html
├── wps_lab_test.html
└── squashfs-root-0

```

**Step2. fetch all the executables from the filesystem and stored the list in a file called `parsingresult.txt` by using `find`**

```
find . -exec file {} \; | grep -i "relocatable"
```

Totally there are 157 ELF executables in ARM arch, 151 relocatables, 154 shared objects. I got these results by using `wc`

```

(shan@localhost)-[~/project/cs577/_10477193.img.extracted]
└─$ cat parsingresult.txt | grep -i "relocatable" | wc -l
151

(shan@localhost)-[~/project/cs577/_10477193.img.extracted]
└─$ cat parsingresult.txt | grep -i "shared" | wc -l
154

(shan@localhost)-[~/project/cs577/_10477193.img.extracted]
└─$ cat parsingresult.txt | grep -i "executable" | wc -l
357

```

**Step3. use `readelf` to extract the symbol tables**

```

#!/bin/sh
while IFS= read -r line
do
    readelf -s $(echo $line | grep -o "^.*:" | awk -F ':' '{print $1}') | grep
    'chk'
done < "$1"

```

**Result: no stack\_canary and fortify\_source are enabled**