

## Open Source Software declaration for Hamilton Connect Module (HCM)

SW version 'HCM\_V1.4.100'

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## Content

|                                                          |     |
|----------------------------------------------------------|-----|
| Content .....                                            | 2   |
| 1 Purpose .....                                          | 5   |
| 2 Open Source Software.....                              | 6   |
| 2.1 Open Source Software 'base-passwd' .....             | 7   |
| 2.2 Open Source Software 'bind' .....                    | 16  |
| 2.3 Open Source Software 'bluez5' .....                  | 36  |
| 2.4 Open Source Software 'bluez5-init' .....             | 51  |
| 2.5 Open Source Software 'boost' .....                   | 55  |
| 2.6 Open Source Software 'libarchive' .....              | 59  |
| 2.7 Open Source Software 'busybox' .....                 | 61  |
| 2.8 Open Source Software 'c-ares' .....                  | 71  |
| 2.9 Open Source Software 'cronie' .....                  | 72  |
| 2.10 Open Source Software 'cryptodev-module' .....       | 84  |
| 2.11 Open Source Software 'curl' .....                   | 93  |
| 2.12 Open Source Software 'dbus' .....                   | 94  |
| 2.13 Open Source Software 'dhcp' .....                   | 109 |
| 2.14 Open Source Software 'dnsmasq' .....                | 116 |
| 2.15 Open Source Software 'e2fsprogs' .....              | 125 |
| 2.16 Open Source Software 'ethtool' .....                | 139 |
| 2.17 Open Source Software 'eudev' .....                  | 149 |
| 2.18 Open Source Software 'expat' .....                  | 164 |
| 2.19 Open Source Software 'firmware-imx' .....           | 165 |
| 2.20 Open Source Software 'fscryptctl' .....             | 176 |
| 2.21 Open Source Software 'glib-2.0' .....               | 183 |
| 2.22 Open Source Software 'glibc' .....                  | 190 |
| 2.23 Open Source Software 'gmp' .....                    | 212 |
| 2.24 Open Source Software 'gnutls' .....                 | 227 |
| 2.25 Open Source Software 'hostapd' .....                | 244 |
| 2.26 Open Source Software 'imx-kobs' .....               | 250 |
| 2.27 Open Source Software 'init-ifupdown' .....          | 259 |
| 2.28 Open Source Software 'initscripts' .....            | 263 |
| 2.29 Open Source Software 'iproute2' .....               | 272 |
| 2.30 Open Source Software 'iw' .....                     | 281 |
| 2.31 Open Source Software 'jansson' .....                | 282 |
| 2.32 Open Source Software 'linux-dey' .....              | 283 |
| 2.33 Open Source Software 'cryptodev-module' .....       | 288 |
| 2.34 Open Source Software 'linux-dey' .....              | 297 |
| 2.35 Open Source Software 'kernel-module-qualcomm' ..... | 302 |
| 2.36 Open Source Software 'linux-dey' .....              | 303 |

|      |                                                   |     |
|------|---------------------------------------------------|-----|
| 2.37 | Open Source Software 'keyutils' .....             | 308 |
| 2.38 | Open Source Software 'kmod' .....                 | 318 |
| 2.39 | Open Source Software 'acl' .....                  | 335 |
| 2.40 | Open Source Software 'libarchive' .....           | 350 |
| 2.41 | Open Source Software 'attr' .....                 | 352 |
| 2.42 | Open Source Software 'bzip2' .....                | 367 |
| 2.43 | Open Source Software 'libcap' .....               | 369 |
| 2.44 | Open Source Software 'e2fsprogs' .....            | 374 |
| 2.45 | Open Source Software 'libconfig' .....            | 388 |
| 2.46 | Open Source Software 'openssl' .....              | 394 |
| 2.47 | Open Source Software 'curl' .....                 | 398 |
| 2.48 | Open Source Software 'libdigiapix' .....          | 399 |
| 2.49 | Open Source Software 'e2fsprogs' .....            | 400 |
| 2.50 | Open Source Software 'e2fsprogs' .....            | 414 |
| 2.51 | Open Source Software 'libffi' .....               | 428 |
| 2.52 | Open Source Software 'libgpiod' .....             | 429 |
| 2.53 | Open Source Software 'libidn2' .....              | 443 |
| 2.54 | Open Source Software 'kmod' .....                 | 448 |
| 2.55 | Open Source Software 'xz' .....                   | 465 |
| 2.56 | Open Source Software 'libmnl' .....               | 477 |
| 2.57 | Open Source Software 'mosquitto' .....            | 490 |
| 2.58 | Open Source Software 'libndp' .....               | 493 |
| 2.59 | Open Source Software 'libnftnl' .....             | 506 |
| 2.60 | Open Source Software 'libnl' .....                | 515 |
| 2.61 | Open Source Software 'glibc' .....                | 528 |
| 2.62 | Open Source Software 'libpcre' .....              | 550 |
| 2.63 | Open Source Software 'libsoc' .....               | 551 |
| 2.64 | Open Source Software 'libsocketcan' .....         | 557 |
| 2.65 | Open Source Software 'e2fsprogs' .....            | 563 |
| 2.66 | Open Source Software 'openssl' .....              | 577 |
| 2.67 | Open Source Software 'eudev' .....                | 581 |
| 2.68 | Open Source Software 'libunistring' .....         | 596 |
| 2.69 | Open Source Software 'libxcrypt' .....            | 601 |
| 2.70 | Open Source Software 'libzip' .....               | 607 |
| 2.71 | Open Source Software 'linux-libc-headers' .....   | 608 |
| 2.72 | Open Source Software 'logrotate' .....            | 613 |
| 2.73 | Open Source Software 'lzo' .....                  | 622 |
| 2.74 | Open Source Software 'modutils-initscripts' ..... | 632 |
| 2.75 | Open Source Software 'mosquitto' .....            | 633 |
| 2.76 | Open Source Software 'mtd-utils' .....            | 636 |
| 2.77 | Open Source Software 'ncurses' .....              | 646 |

|       |                                               |     |
|-------|-----------------------------------------------|-----|
| 2.78  | Open Source Software 'netbase' .....          | 647 |
| 2.79  | Open Source Software 'nettle' .....           | 651 |
| 2.80  | Open Source Software 'networkmanager' .....   | 656 |
| 2.81  | Open Source Software 'nftables' .....         | 660 |
| 2.82  | Open Source Software 'nginx' .....            | 669 |
| 2.83  | Open Source Software 'openssl' .....          | 670 |
| 2.84  | Open Source Software 'os-release' .....       | 674 |
| 2.85  | Open Source Software 'popt' .....             | 675 |
| 2.86  | Open Source Software 'procps' .....           | 676 |
| 2.87  | Open Source Software 'protobuf' .....         | 693 |
| 2.88  | Open Source Software 'recovery-utils' .....   | 694 |
| 2.89  | Open Source Software 'run-postinsts' .....    | 700 |
| 2.90  | Open Source Software 'shadow' .....           | 701 |
| 2.91  | Open Source Software 'shadow-securetty' ..... | 705 |
| 2.92  | Open Source Software 'swupdate' .....         | 706 |
| 2.93  | Open Source Software 'sysinfo' .....          | 715 |
| 2.94  | Open Source Software 'system-monitor' .....   | 719 |
| 2.95  | Open Source Software 'sysvinit' .....         | 725 |
| 2.96  | Open Source Software 'sysvinit-inittab' ..... | 735 |
| 2.97  | Open Source Software 'sysvinit' .....         | 739 |
| 2.98  | Open Source Software 'u-boot-fw-utils' .....  | 749 |
| 2.99  | Open Source Software 'udev-extraconf' .....   | 756 |
| 2.100 | Open Source Software 'udev-rules-imx' .....   | 757 |
| 2.101 | Open Source Software 'unzip' .....            | 758 |
| 2.102 | Open Source Software 'opkg-utils' .....       | 760 |
| 2.103 | Open Source Software 'update-rc.d' .....      | 769 |
| 2.104 | Open Source Software 'util-linux' .....       | 773 |
| 2.105 | Open Source Software 'watchdog' .....         | 783 |
| 2.106 | Open Source Software 'watchdog-config' .....  | 788 |
| 2.107 | Open Source Software 'wireless-regdb' .....   | 789 |
| 2.108 | Open Source Software 'wolftpm' .....          | 790 |
| 2.109 | Open Source Software 'wpa-suplicant' .....    | 791 |
| 2.110 | Open Source Software 'zip' .....              | 793 |
| 2.111 | Open Source Software 'zlib' .....             | 795 |
| 2.112 | Open Source Software 'base64' .....           | 796 |

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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/*
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*
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```
* BlueZ - Bluetooth protocol stack for Linux
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*
```

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```

```
* Copyright (C) 2002-2003 Maxim Krasnyansky
```

```
* Copyright (C) 2002-2010 Marcel Holtmann
```

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*
```

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*
```

```
*/
```

```
#ifdef HAVE_CONFIG_H
```

```
#include
```

```
#endif
```

```
#define _GNU_SOURCE
```

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#include
```

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#include
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#include
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#include
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#include
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#include
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#include
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```
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Version 2, June 1991
```

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 *
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 *
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 *
 * "BTW, I would have rejected the name Story Server because its
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 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
 *
 * Let no one say political correctness isn't dead....
 */
 * e2p.h --- header file for the e2p library
 *
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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- For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed



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## 2.23 Open Source Software 'gmp'

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by James Random Hacker.

signature of Ty Coon, 1 April 1990  
Ty Coon, President of Vice  
That's all there is to it!

## 2.25 Open Source Software 'hostapd'

hostapd - user space IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP  
Authenticator and RADIUS authentication server

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### Introduction

=====

Originally, hostapd was an optional user space component for Host AP  
driver. It adds more features to the basic IEEE 802.11 management  
included in the kernel driver: using external RADIUS authentication  
server for MAC address based access control, IEEE 802.1X Authenticator  
and dynamic WEP keying, RADIUS accounting, WPA/WPA2 (IEEE 802.11i/RSN)  
Authenticator and dynamic TKIP/CCMP keying.

The current version includes support for other drivers, an integrated

EAP server (i.e., allow full authentication without requiring an external RADIUS authentication server), and RADIUS authentication server for EAP authentication.

#### Requirements

-----

Current hardware/software requirements:

- drivers:

Host AP driver for Prism2/2.5/3.

(<http://w1.fi/hostap-driver.html>)

Please note that station firmware version needs to be 1.7.0 or newer to work in WPA mode.

mac80211-based drivers that support AP mode (with driver=nl80211). This includes drivers for Atheros (ath9k) and Broadcom (b43) chipsets.

Any wired Ethernet driver for wired IEEE 802.1X authentication (experimental code)

FreeBSD-current

BSD net80211 layer (e.g., Atheros driver)

#### Build configuration

-----

In order to be able to build hostapd, you will need to create a build time configuration file, .config that selects which optional components are included. See defconfig file for example configuration and list of available options.

#### IEEE 802.1X

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IEEE Std 802.1X-2001 is a standard for port-based network access control. In case of IEEE 802.11 networks, a "virtual port" is used between each associated station and the AP. IEEE 802.11 specifies minimal authentication mechanism for stations, whereas IEEE 802.1X introduces a extensible mechanism for authenticating and authorizing users.

IEEE 802.1X uses elements called Supplicant, Authenticator, Port Access Entity, and Authentication Server. Supplicant is a component in a station and it performs the authentication with the Authentication Server. An access point includes an Authenticator that relays the packets between a Supplicant and an Authentication Server. In addition, it has a Port Access Entity (PAE) with Authenticator functionality for controlling the virtual port authorization, i.e., whether to accept packets from or to the station.

IEEE 802.1X uses Extensible Authentication Protocol (EAP). The frames between a Supplicant and an Authenticator are sent using EAP over LAN (EAPOL) and the Authenticator relays these frames to the Authentication Server (and similarly, relays the messages from the Authentication Server to the Supplicant). The Authentication Server can be colocated with the Authenticator, in which case there is no need for additional protocol for EAP frame transmission. However, a more common configuration is to use an external Authentication Server and encapsulate EAP frame in the

frames used by that server. RADIUS is suitable for this, but IEEE 802.1X would also allow other mechanisms.

Host AP driver includes PAE functionality in the kernel driver. It is a relatively simple mechanism for denying normal frames going to or coming from an unauthorized port. PAE allows IEEE 802.1X related frames to be passed between the Supplicant and the Authenticator even on an unauthorized port.

User space daemon, hostapd, includes Authenticator functionality. It receives 802.1X (EAPOL) frames from the Supplicant using the wlan#ap device that is also used with IEEE 802.11 management frames. The frames to the Supplicant are sent using the same device.

The normal configuration of the Authenticator would use an external Authentication Server. hostapd supports RADIUS encapsulation of EAP packets, so the Authentication Server should be a RADIUS server, like FreeRADIUS (<http://www.freeradius.org/>). The Authenticator in hostapd relays the frames between the Supplicant and the Authentication Server. It also controls the PAE functionality in the kernel driver by controlling virtual port authorization, i.e., station-AP connection, based on the IEEE 802.1X state.

When a station would like to use the services of an access point, it will first perform IEEE 802.11 authentication. This is normally done with open systems authentication, so there is no security. After this, IEEE 802.11 association is performed. If IEEE 802.1X is configured to be used, the virtual port for the station is set in Unauthorized state and only IEEE 802.1X frames are accepted at this point. The Authenticator will then ask the Supplicant to authenticate with the Authentication Server. After this is completed successfully, the virtual port is set to Authorized state and frames from and to the station are accepted.

#### Host AP configuration for IEEE 802.1X

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The user space daemon has its own configuration file that can be used to define AP options. Distribution package contains an example configuration file (hostapd/hostapd.conf) that can be used as a basis for configuration. It includes examples of all supported configuration options and short description of each option. hostapd should be started with full path to the configuration file as the command line argument, e.g., './hostapd /etc/hostapd.conf'. If you have more than one wireless LAN card, you can use one hostapd process for multiple interfaces by giving a list of configuration files (one per interface) in the command line.

hostapd includes a minimal co-located IEEE 802.1X server which can be used to test IEEE 802.1X authentication. However, it should not be used in normal use since it does not provide any security. This can be configured by setting ieee8021x and minimal\_eap options in the configuration file.

An external Authentication Server (RADIUS) is configured with auth\_server\_{addr,port,shared\_secret} options. In addition, ieee8021x and own\_ip\_addr must be set for this mode. With such configuration, the co-located Authentication Server is not used and EAP frames will be relayed using EAPOL between the Supplicant and the Authenticator and RADIUS encapsulation between the Authenticator and the Authentication Server. Other than this, the functionality is similar to the case with the co-located Authentication Server.

## Authentication Server

Any RADIUS server supporting EAP should be usable as an IEEE 802.1X Authentication Server with hostapd Authenticator. FreeRADIUS (<http://www.freeradius.org/>) has been successfully tested with hostapd Authenticator.

## Automatic WEP key configuration

EAP/TLS generates a session key that can be used to send WEP keys from an AP to authenticated stations. The Authenticator in hostapd can be configured to automatically select a random default/broadcast key (shared by all authenticated stations) with `wep_key_len_broadcast` option (5 for 40-bit WEP or 13 for 104-bit WEP). In addition, `wep_key_len_unicast` option can be used to configure individual unicast keys for stations. This requires support for individual keys in the station driver.

WEP keys can be automatically updated by configuring rekeying. This will improve security of the network since same WEP key will only be used for a limited period of time. `wep_rekey_period` option sets the interval for rekeying in seconds.

## WPA/WPA2

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### Features

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Supported WPA/IEEE 802.11i features:

- WPA-PSK ("WPA-Personal")
- WPA with EAP (e.g., with RADIUS authentication server) ("WPA-Enterprise")
- key management for CCMP, TKIP, WEP104, WEP40
- RSN/WPA2 (IEEE 802.11i), including PMKSA caching and pre-authentication

## WPA

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The original security mechanism of IEEE 802.11 standard was not designed to be strong and has proved to be insufficient for most networks that require some kind of security. Task group I (Security) of IEEE 802.11 working group (<http://www.ieee802.org/11/>) has worked to address the flaws of the base standard and has in practice completed its work in May 2004. The IEEE 802.11i amendment to the IEEE 802.11 standard was approved in June 2004 and this amendment was published in July 2004.

Wi-Fi Alliance (<http://www.wi-fi.org/>) used a draft version of the IEEE 802.11i work (draft 3.0) to define a subset of the security enhancements that can be implemented with existing wlan hardware. This is called Wi-Fi Protected Access (WPA). This has now become a mandatory component of interoperability testing and certification done by Wi-Fi Alliance.

IEEE 802.11 standard defined wired equivalent privacy (WEP) algorithm for protecting wireless networks. WEP uses RC4 with 40-bit keys, 24-bit initialization vector (IV), and CRC32 to protect against packet forgery. All these choices have proven to be insufficient: key space is too small against current attacks, RC4 key scheduling is insufficient (beginning of the pseudorandom stream should be skipped), IV space is

too small and IV reuse makes attacks easier, there is no replay protection, and non-keyed authentication does not protect against bit flipping packet data.

WPA is an intermediate solution for the security issues. It uses Temporal Key Integrity Protocol (TKIP) to replace WEP. TKIP is a compromise on strong security and possibility to use existing hardware. It still uses RC4 for the encryption like WEP, but with per-packet RC4 keys. In addition, it implements replay protection, keyed packet authentication mechanism (Michael MIC).

Keys can be managed using two different mechanisms. WPA can either use an external authentication server (e.g., RADIUS) and EAP just like IEEE 802.1X is using or pre-shared keys without need for additional servers. Wi-Fi calls these "WPA-Enterprise" and "WPA-Personal", respectively. Both mechanisms will generate a master session key for the Authenticator (AP) and Supplicant (client station).

WPA implements a new key handshake (4-Way Handshake and Group Key Handshake) for generating and exchanging data encryption keys between the Authenticator and Supplicant. This handshake is also used to verify that both Authenticator and Supplicant know the master session key. These handshakes are identical regardless of the selected key management mechanism (only the method for generating master session key changes).

#### IEEE 802.11i / WPA2

-----

The design for parts of IEEE 802.11i that were not included in WPA has finished (May 2004) and this amendment to IEEE 802.11 was approved in June 2004. Wi-Fi Alliance is using the final IEEE 802.11i as a new version of WPA called WPA2. This includes, e.g., support for more robust encryption algorithm (CCMP: AES in Counter mode with CBC-MAC) to replace TKIP and optimizations for handoff (reduced number of messages in initial key handshake, pre-authentication, and PMKSA caching).

Some wireless LAN vendors are already providing support for CCMP in their WPA products. There is no "official" interoperability certification for CCMP and/or mixed modes using both TKIP and CCMP, so some interoperability issues can be expected even though many combinations seem to be working with equipment from different vendors. Testing for WPA2 is likely to start during the second half of 2004.

#### hostapd configuration for WPA/WPA2

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#### TODO

```
# Enable WPA. Setting this variable configures the AP to require WPA (either
# WPA-PSK or WPA-RADIUS/EAP based on other configuration). For WPA-PSK, either
# wpa_psk or wpa_passphrase must be set and wpa_key_mgmt must include WPA-PSK.
# For WPA-RADIUS/EAP, ieee8021x must be set (but without dynamic WEP keys),
# RADIUS authentication server must be configured, and WPA-EAP must be included
# in wpa_key_mgmt.
# This field is a bit field that can be used to enable WPA (IEEE 802.11i/D3.0)
# and/or WPA2 (full IEEE 802.11i/RSN):
# bit0 = WPA
# bit1 = IEEE 802.11i/RSN (WPA2)
#wpa=1
```

```
# WPA pre-shared keys for WPA-PSK. This can be either entered as a 256-bit
```



```
# secret in hex format (64 hex digits), wpa_psk, or as an ASCII passphrase
# (8..63 characters) that will be converted to PSK. This conversion uses SSID
# so the PSK changes when ASCII passphrase is used and the SSID is changed.
#wpa_psk=0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef
#wpa_passphrase=secret passphrase
```

```
# Set of accepted key management algorithms (WPA-PSK, WPA-EAP, or both). The
# entries are separated with a space.
#wpa_key_mgmt=WPA-PSK WPA-EAP
```

```
# Set of accepted cipher suites (encryption algorithms) for pairwise keys
# (unicast packets). This is a space separated list of algorithms:
# CCMP = AES in Counter mode with CBC-MAC [RFC 3610, IEEE 802.11i]
# TKIP = Temporal Key Integrity Protocol [IEEE 802.11i]
# Group cipher suite (encryption algorithm for broadcast and multicast frames)
# is automatically selected based on this configuration. If only CCMP is
# allowed as the pairwise cipher, group cipher will also be CCMP. Otherwise,
# TKIP will be used as the group cipher.
#wpa_pairwise=TKIP CCMP
```

```
# Time interval for rekeying GTK (broadcast/multicast encryption keys) in
# seconds.
#wpa_group_rekey=600
```

```
# Time interval for rekeying GMK (master key used internally to generate GTKs
# (in seconds).
#wpa_gmk_rekey=86400
```

```
# Enable IEEE 802.11i/RSN/WPA2 pre-authentication. This is used to speed up
# roaming by pre-authenticating IEEE 802.1X/EAP part of the full RSN
# authentication and key handshake before actually associating with a new AP.
#rsn_preauth=1
#
# Space separated list of interfaces from which pre-authentication frames are
# accepted (e.g., 'eth0' or 'eth0 wlan0wds0'). This list should include all
# interface that are used for connections to other APs. This could include
# wired interfaces and WDS links. The normal wireless data interface towards
# associated stations (e.g., wlan0) should not be added, since
# pre-authentication is only used with APs other than the currently associated
# one.
#rsn_preauth_interfaces=eth0
```

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.



Although the Lesser General Public License is Less protective of the users` freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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root function must still compute square roots.)

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
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 *
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 *
 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
 * initials are SS, the name of the secret police in Nazi
 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
 *
 * Let no one say political correctness isn't dead....
 */
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%

```

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as

regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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## 2.45 Open Source Software 'libconfig'

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
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 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
 *
 * Let no one say political correctness isn't dead....
 */
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
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 * %End-Header%

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```
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 *
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 *
 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
 * initials are SS, the name of the secret police in Nazi
 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
 *
 * Let no one say political correctness isn't dead....
 */
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%

```

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## 2.53 Open Source Software 'libidn2'

/\* idn2.c - command line interface to libidn2

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=====

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prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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, 1 April 1990  
Ty Coon, President of Vice

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.  
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The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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  - b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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- For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed

for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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- For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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 *
 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
 * initials are SS, the name of the secret police in Nazi
 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
 *
 * Let no one say political correctness isn't dead....
 */
 * e2p.h --- header file for the e2p library
 *
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To make this easier, such license headers in the source files will be replaced with a single line reference to Unique License Identifiers as defined by the Linux Foundation's SPDX project [1].

If a "SPDX-License-Identifier:" line references more than one Unique License Identifier, then this means that the respective file can be used under the terms of either of these licenses, i. e. with

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We use the SPDX Unique License Identifiers here; these are available at [2].

License identifier syntax

-----

### 1. Placement:

The SPDX license identifier in U-Boot files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the '#!PATH\_TO\_INTERPRETER' in the first line. For those scripts the SPDX identifier goes into the second line.

|

## 2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

```
C source: // SPDX-License-Identifier:
C header: /* SPDX-License-Identifier: */
ASM: /* SPDX-License-Identifier: */
scripts: # SPDX-License-Identifier:
.rst: .. SPDX-License-Identifier:
.dts{.i}: // SPDX-License-Identifier:
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the `"/\*\*/"` style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

|

## 3. Syntax:

A is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(", ")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the linux kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from U-Boot for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0+ OR BSD-3-Clause
```

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in U-Boot, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

[1] <http://spdx.org/>  
[2] <http://spdx.org/licenses/>

Full name SPDX Identifier OSI Approved File name URI

```
=====
=====
GNU General Public License v2.0 only GPL-2.0 Y gpl-2.0.txt http://www.gnu.org/licenses/gpl-2.0.txt
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 *  
 * This file implements functions for registering and unregistering  
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 */
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wpa\_supPLICant and hostapd

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Source code files were moved around in v0.6.x releases and compared to earlier releases, the programs are now built by first going to a subdirectory (wpa\_supPLICant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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base64.cpp and base64.h

base64 encoding and decoding with C++.

Version: 1.01.00

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