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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release from	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1			
2001	PSF	yes		
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes

2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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1.4 enum34 1.1.6

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1.5 bzip2 1.0.8

1.6 json-c 0.99.8

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1.7 gmp 6.1.2

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1.9 libndp 1.7

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Version 2.1, February 1999

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1.10 glibc 2.30

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@center Version 2.1, February 1999

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
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man/fpurge.3bsd
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man/unvis.3bsd
man/vis.3bsd
man/wcsncpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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src/arc4random_uniform.c
src/arc4random_unix.h
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1.13 opkg 2019-01-18

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1.14 json-c 0.14

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1.15 berkeley-db 4.7.25

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1.16 linux-kernel 4.9.140

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```

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
  lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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- * Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
- *
- * M. Welsh, 6 July 1996
- *
- *
- */

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PLY (Python Lex-Yacc) Version 3.9

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Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides **very** extensive error reporting and diagnostic information to assist in parser construction.
The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

Acknowledgments

=====

A

special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----
# calc.py
#
# A simple calculator with variables.
# -----

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

# Tokens

t_PLUS = r'\+'
t_MINUS = r'\-'
t_TIMES = r'\*'
t_DIVIDE = r'\/'
t_EQUALS = r'='
```

```

t_LPAREN = r'\('
t_RPAREN = r'\)'
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+' : p[0] = p[1] + p[3]

```

```

elif p[2] == '-': p[0] = p[1] - p[3]
elif p[2] == '*': p[0] = p[1] * p[3]
elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new

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```
import sys
from setuptools import setup
import io
```

```
version = "2.1"
```

```
def main():
```

```
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
```

```

'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/setup.py

```

1.24 protobuf-to-dict 0.1.0

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1.28 protobuf 3.17.3

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- * Small patch to fix Python CallMethod().

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- * Small optimizations to Python serialization.

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- * VI syntax highlighting tweaks.

- * Fix compiler to not make output executable.

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- * Heuristic detection of sub-messages when printing unknown fields in text format.

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- * Added @Override annotation to generated Java code where appropriate.

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- * Tru64 support.

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- * Solaris 10 + Sun Studio fixes.

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- * Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- * HPUX support.

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- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

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- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

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- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

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1.34 tdb 1.47.0

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2019/03/18

wepoll - epoll for Windows

<https://github.com/piscisaureus/wepoll>

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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

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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.

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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.

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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.

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.

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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.

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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.

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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.

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1.42 e2fsprogs 1.47.0

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o

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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 a brief idea of what it does.>
Copyright (C) <year> <name>
of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision
comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a
subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
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These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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.

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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.

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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.

Activities

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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

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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.

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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 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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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 source code 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

```

# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB)`)

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

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1.43 tcpdump 4.99.4

1.43.1 Available under license :

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```
# -*- perl -*-
```

```
$testlist = [
```

```
    # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
```

```
    # which OpenBSD treats as DLT_LOOP.
```

```

{
    config_unset => 'IS_OPENBSD',
    name => 'heap-overflow-1',
    input => 'heap-overflow-1.pcap',
    output => 'heap-overflow-1.out',
    args  => '-v'
},
];

1;

```

1.44 util-linux 2.37.4

1.44.1 Available under license :

```

NR START  END SECTORS SIZE NAME UUID
1  32 7679  7648 3.7M   8f8378c0-01
2 7680 16383 8704 4.3M   8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

```

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Version 3, 29 June 2007

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(1)

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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<signature of Ty Coon>, 1 April 1989

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```
#!/usr/bin/env bash
```

```
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
```

```
# This script will read the license file into memory, strip out the copyright, and then
```

```
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```
calculate_md5_sum() {
```

```
    local FILE="$1"
```

```
    # Read the contents of the file into a variable
```

```
    local raw_license_text=$(<"$FILE")
```

```
    # Convert to lowercase
```

```
    local lowercase_license_text="{raw_license_text,,}"
```

```
    # Remove anything before the beginning of the license
```

```
    local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")
```

```
    # Replace line breaks (Windows or Linux) with a single space
```

```
    local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")
```

```
    # Replace multiple spaces with a single space
```

```
    local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")
```

```
    # Strip away any non-printable, non-whitespace characters
```

```
    local clean_unprintable_license_text=$(tr
```

```
-cd '[:print:][:space:]' <<< "$normalized_license_text")
```

```
    # Remove punctuation and special characters
```

```
    local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')
```

```
    # Calculate the MD5 sum of the cleaned license text
```

```
    local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```
    # Output the MD5 sum
```

```
    echo "$MD5SUM"
```

```
}
```

```
# Check if the FILE argument is provided
```

```
if [ -z "$1" ]; then
```

```

echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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```

1.45 pcre 8.44

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1.46 libevent 2.1.12

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1.47 libcap 2.69

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1.48 pyyaml 5.4.1

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1.49 libxml2 2.11.6

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1.50 zlib 1.2.3

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1.51 posix_ipc 1.0.0

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1.52 rsyslog 8.2308.0

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1.56 pam 1.4.1

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1.60 ncurses 6.5

1.60.1 Available under license :

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-- vile: txtmode file-encoding=utf-8
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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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1.61 ip-address 1.0.17

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1.62 six 1.10.0

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1.63 pyopenssl 19.1.0

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1.64 pycparser 2.14

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1.65 pyasn1-modules 0.0.8

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1.66 wpa-suplicant 2.12-devel

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* wpa_supPLICant - Internal definitions

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* WPA SupPLICant / WinMain() function for Windows-based applications

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* wpa_gui - Application startup

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* WPA SupPLICant - auto scan

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* WPA SupPLICant / main() function for UNIX like OSes and MinGW

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* IEEE 802.1X SupPLICant test code (to be used in place of wpa_supPLICant.c.

* Not used in production version.

*/

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* WPA SupPLICant / Example program entryptpoint

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* wpa_gui - Peers class
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* This file implements functions for registering and unregistering
* %wpa_supPLICant interfaces. In addition, this file contains number of
* functions for managing network connections.
*/

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* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_supPLICant.c
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* WPA SupPLICant - background scan and roaming interface
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* wpa_supPLICant D-Bus control interface - common definitions

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* binder interface for wpa_supPLICant daemon

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* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/binder_manager.h

* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/binder_constants.h

* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/binder.cpp

* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/fi/w1/wpa_supPLICant/ISupPLICantCallbacks.aidl

* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/supPLICant.cpp
* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/binder_constants.cpp
* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/binder_i.h
* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/iface.h
* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/binder.h
*

/wpa-supPLICant-89-zip/wpa_supPLICant/binder/iface.cpp
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* wpa_gui - UserDataRequest class
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/*
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```

Found in path(s):

```
* /wpa-supPLICANT-89-zip/wpa_supplicant/dbus/dbus_new_helpers.h
* /wpa-supPLICANT-89-zip/wpa_supplicant/dbus/dbus_new_helpers.c
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```

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```
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* wpa_supplicant - List of temporarily ignored BSSIDs
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* /wpa-supPLICant-89-zip/wpa_supPLICant/doc/docbook/wpa_supPLICant.sgml
* /wpa-supPLICant-89-zip/wpa_supPLICant/doc/docbook/wpa_priv.sgml
* /wpa-supPLICant-89-zip/wpa_supPLICant/doc/docbook/wpa_gui.sgml
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* Operating classes

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*/

Found in path(s):

* /wpa-supPLICANT-89-zIP/wpa_supPLICANT/op_classes.c
No license file was found, but licenses were detected in source scan.

/*
* wpa_gui - ScanResultsItem class
* Copyright (c) 2015, Adrian Nowicki <adinowicki@gmail.com>
*
* This software may be distributed under the terms of the BSD license.
* See README for more details.
*/

Found in path(s):

* /wpa-supPLICANT-89-zIP/wpa_supPLICANT/wpa_gui-qt4/scanresultsitem.h
* /wpa-supPLICANT-89-zIP/wpa_supPLICANT/wpa_gui-qt4/scanresultsitem.cpp
No license file was found, but licenses were detected in source scan.

/*
* WPA SupPLICANT / Windows Named Pipe -based control interface
* Copyright (c) 2004-2006, Jouni Malinen <j@w1.fi>
*
* This software may be distributed under the terms of the BSD license.
* See README for more details.
*/

Found in path(s):

* /wpa-supPLICANT-89-zIP/wpa_supPLICANT/ctrl_iface_named_pipe.c
No license file was found, but licenses were detected in source scan.

/*
* wpa_supPLICANT - D-Bus introspection
* Copyright (c) 2006, Dan Williams <dcbw@redhat.com> and Red Hat, Inc.
* Copyright (c) 2009, Witold Sowa <witold.sowa@gmail.com>
* Copyright (c) 2010, Jouni Malinen <j@w1.fi>
*
* This software may be distributed under the terms of the BSD license.
* See README for more details.
*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/dbus/dbus_new_introspect.c

No license file was found, but licenses were detected in source scan.

Include support for GNU Readline and History Libraries in wpa_cli.

When building a wpa_cli binary for distribution, please note that these

libraries are licensed under GPL and as such, BSD license may not apply for

the resulting binary.

#CONFIG_READLINE=y

Wired equivalent privacy (WEP)

WEP is an obsolete cryptographic data confidentiality algorithm that is not

considered secure. It should not be used for anything anymore. The

functionality needed to use WEP is available in the current wpa_supPLICant

release under this optional build parameter. This functionality is subject to

be completely removed in a future release.

#CONFIG_WEP=y

Remove all TKIP functionality

TKIP is an old cryptographic data confidentiality algorithm that is not

considered secure. It should not be used anymore for anything else than a

backwards compatibility option as a group cipher when connecting to APs that

use WPA+WPA2

mixed mode. For now, the default wpa_supPLICant build includes

support for this by default, but that functionality is subject to be removed

in the future.

#CONFIG_NO_TKIP=y

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/defconfig

No license file was found, but licenses were detected in source scan.

/*

* WPA SupPLICant - test code

* Copyright (c) 2003-2013, Jouni Malinen <j@w1.fi>

*

* This software may be distributed under the terms of the BSD license.

* See README for more details.

*

* IEEE 802.1X SupPLICant test code (to be used in place of wpa_supPLICant.c.

* Not used in production version.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/eapol_test.c

No license file was found, but licenses were detected in source scan.

/*

* WPA SupPLICant - auto scan exponential module

* Copyright (c) 2012, Intel Corporation. All rights reserved.

*

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* See README for more details.
*/

Found in path(s):

* /wpa-supplciant-89-zip/wpa_supplciant/autoscan_exponential.c

No license file was found, but licenses were detected in source scan.

wpa_gui icon files

To convert the svg icons to other formats, make sure inkscape and imagemagick are installed and use `make` to create various sized png and xpm icons.

wpa_gui.svg

Copyright (c) 2008 Bernard Gray <bernard.gray@gmail.com>

The wpa_gui icon is licensed under the GPL version 2. Alternatively, the icon may be distributed under the terms of BSD license.

ap.svg

mystica_Wireless_Router.svg

<http://openclipart.org/media/files/mystica/8390>

Wireless Router

by: mystica

last change: April 20, 2008 10:32 pm (File added)

date: April 20, 2008 10:31 pm

license: PD

laptop.svg

metalmariious_Laptop.svg

<http://openclipart.org/media/files/metalmariious/4056>

Laptop

by: metalmariious

last change: May 18, 2008 07:04 pm (File added)

date: August 27, 2007 04:44 am

license: PD

group.svg

<http://www.openclipart.org/detail/25428>

http://www.openclipart.org/people/Anonymous/Anonymous_Network.svg

Uploader:

Anonymous

Drawn by:

Andrew Fitzsimon / Anonymous

Created:

2009-04-29 04:07:37

Description:

A network icon by Andrew Fitzsimon. Etiquette Icon set.

From 0.18 OCAL database.

Public Domain

invitation.svg

<http://www.openclipart.org/detail/974>

http://www.openclipart.org/people/jean_victor_balin/jean_victor_balin_unknown_green.svg

Uploader:

jean_victor_balin

Drawn by:

jean_victor_balin

Created:

2006-10-27 02:12:13

Description:

Public Domain

Found in path(s):

* /wpa-supplciant-89-zip/wpa_supplciant/wpa_gui-qt4/icons/README

No license file was found, but licenses were detected in source scan.

/*

* WPA Supplciant / dbus-based control interface

* Copyright (c) 2006, Dan Williams <dcbw@redhat.com> and Red Hat, Inc.

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/dbus/dbus_dict_helpers.c
* /wpa-supPLICant-89-zip/wpa_supPLICant/dbus/dbus_dict_helpers.h
No license file was found, but licenses were detected in source scan.

/*
* wpa_supPLICant - P2P service discovery
* Copyright (c) 2009-2010, Atheros Communications
* Copyright (c) 2010-2014, Jouni Malinen <j@w1.fi>
*
* This software may be distributed under the terms of the BSD license.
* See README for more details.
*/

Found in path(s):
* /wpa-supPLICant-89-zip/wpa_supPLICant/p2p_supPLICant_sd.c
No license file was found, but licenses were detected in source scan.

/*
* WPA SupPLICant - Mesh RSN routines
* Copyright (c) 2013-2014, cozybit, Inc. All rights reserved.
*
* This software may be distributed under the terms of the BSD license.
* See README for more details.
*/

Found in path(s):
* /wpa-supPLICant-89-zip/wpa_supPLICant/mesh_rsn.c
* /wpa-supPLICant-89-zip/wpa_supPLICant/mesh_rsn.h
No license file was found, but licenses were detected in source scan.

/*
* wpa_supPLICant - Wi-Fi Display
* Copyright (c) 2011, Atheros Communications, Inc.
* Copyright (c) 2011-2012, Qualcomm Atheros, Inc.
*
* This software may be distributed under the terms of the BSD license.
* See README for more details.
*/

Found in path(s):
* /wpa-supPLICant-89-zip/wpa_supPLICant/wifi_display.c
* /wpa-supPLICant-89-zip/wpa_supPLICant/wifi_display.h
No license file was found, but licenses were detected in source scan.

/*
* WPA SupPLICant / privileged helper program
* Copyright (c) 2007-2009, Jouni Malinen <j@w1.fi>
*

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* See README for more details.
*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_priv.c

No license file was found, but licenses were detected in source scan.

/*

* Generic advertisement service (GAS) query

* Copyright (c) 2009, Atheros Communications

* Copyright (c) 2011, Qualcomm Atheros

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/gas_query.h

No license file was found, but licenses were detected in source scan.

/*

* WPA SupPLICant / dbus-based control interface

* Copyright (c) 2006, Dan Williams <dcbw@redhat.com> and Red Hat, Inc.

* Copyright (c) 2009-2010, Witold Sowa <witold.sowa@gmail.com>

* Copyright (c) 2009, Jouni Malinen <j@w1.fi>

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/dbus/dbus_new.c

No license file was found, but licenses were detected in source scan.

/*

* wpa_supPLICant - Internal driver interface wrappers

* Copyright (c) 2003-2015, Jouni Malinen <j@w1.fi>

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/driver_i.h

No license file was found, but licenses were detected in source scan.

/*

* WPA Supplicant / Control interface (shared code for all backends)
* Copyright (c) 2004-2024, Jouni Malinen <j@w1.fi>
*
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* See README for more details.
*/

Found in path(s):

* /wpa-supPLICANT-89-zip/wpa_supplicant/ctrl_iface.c
No license file was found, but licenses were detected in source scan.

/*
* WPA Supplicant - Scanning
* Copyright (c) 2003-2019, Jouni Malinen <j@w1.fi>
*
* This software may be distributed under the terms of the BSD license.
* See README for more details.
*/

Found in path(s):

* /wpa-supPLICANT-89-zip/wpa_supplicant/scan.c
No license file was found, but licenses were detected in source scan.

/*
* WPA Supplicant / main() function for Win32 service
* Copyright (c) 2003-2006, Jouni Malinen <j@w1.fi>
*
* This software may be distributed under the terms of the BSD license.
* See README for more details.
*
* The root of wpa_supplicant configuration in registry is
* HKEY_LOCAL_MACHINE\\SOFTWARE\\%wpa_supplicant. This level includes global
* parameters and a 'interfaces' subkey with all the interface configuration
* (adapter to confname mapping). Each such mapping is a subkey that has
* 'adapter' and 'config' values.
*
* This program can be run either as a normal command line application, e.g.,
* for debugging, with 'wpasvc.exe app' or as a Windows service. Service need
* to be registered with 'wpasvc.exe reg <full path to wpasvc.exe>'. After
* this, it can be started like any other Windows service (e.g., 'net start
* wpasvc') or it can be configured to start automatically through the Services
* tool in administrative tasks. The service can be unregistered with
* 'wpasvc.exe unreg'.
*/

Found in path(s):

* /wpa-supPLICANT-89-zip/wpa_supplicant/main_winsvc.c

No license file was found, but licenses were detected in source scan.

```
/*  
* wpa_supplicant / WPS integration  
* Copyright (c) 2008-2012, Jouni Malinen <j@w1.fi>  
*  
* This software may be distributed under the terms of the BSD license.  
* See README for more details.  
*/
```

Found in path(s):

```
* /wpa-supPLICANT-89-zip/wpa_supplicant/wps_supplicant.h
```

No license file was found, but licenses were detected in source scan.

```
/*  
* NAN unsynchronized service discovery (USD)  
* Copyright (c) 2024, Qualcomm Innovation Center, Inc.  
*  
* This software may be distributed under the terms of the BSD license.  
* See README for more details.  
*/
```

Found in path(s):

```
* /wpa-supPLICANT-89-zip/wpa_supplicant/nan_usd.h
```

```
* /wpa-supPLICANT-89-zip/wpa_supplicant/nan_usd.c
```

No license file was found, but licenses were detected in source scan.

```
/*  
* WPA Supplicant - Basic mesh peer management  
* Copyright (c) 2013-2014, cozybit, Inc. All rights reserved.  
*  
* This software may be distributed under the terms of the BSD license.  
* See README for more details.  
*/
```

Found in path(s):

```
* /wpa-supPLICANT-89-zip/wpa_supplicant/mesh_mpm.c
```

```
* /wpa-supPLICANT-89-zip/wpa_supplicant/mesh_mpm.h
```

No license file was found, but licenses were detected in source scan.

```
/*  
* WPA Supplicant - binder interface for wpa_supplicant daemon  
* Copyright (c) 2004-2016, Jouni Malinen <j@w1.fi>  
* Copyright (c) 2004-2016, Roshan Pius <rpius@google.com>  
*  
* This software may be distributed under the terms of the BSD license.  
* See README for more details.  
*/
```

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/fi/w1/wpa_supPLICant/ISupPLICant.aidl

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2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name(s) of the above-listed copyright holder(s) nor the derived from this software without specific prior written permission.

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/README

No license file was found, but licenses were detected in source scan.

ChangeLog for wpa_supPLICant

2024-07-20 - v2.11

* Wi-Fi Easy Connect

- add support for DPP release 3
- allow Configurator parameters to be provided during config exchange

* MACsec

- add support for GCM-AES-256 cipher suite
- remove incorrect EAP Session-Id length constraint
- add hardware offload support for additional drivers

* HE/IEEE 802.11ax/Wi-Fi 6

- support BSS color updates
- various fixes

* EHT/IEEE 802.11be/Wi-Fi 7

- add preliminary support

* support OpenSSL 3.0 API changes

* improve EAP-TLS support for TLSv1.3

* EAP-SIM/AKA: support IMSI privacy

* improve mitigation against DoS attacks when PMF is used

* improve 4-way handshake operations

- discard unencrypted EAPOL frames in additional cases
- use Secure=1 in message 2 during PTK rekeying

* OCV: do not check Frequency Segment 1 Channel Number for 160 MHz cases
to avoid interoperability issues

* support new SAE AKM

suites with variable length keys

- * support new AKM for 802.1X/EAP with SHA384
- * improve cross-AKM roaming with driver-based SME/BSS selection
- * PASN
 - extend support for secure ranging
 - allow PASN implementation to be used with external programs for Wi-Fi Aware
- * FT: Use SHA256 to derive PMKID for AKM 00-0F-AC:3 (FT-EAP)
 - this is based on additional details being added in the IEEE 802.11 standard
 - the new implementation is not backwards compatible, but PMKSA caching with FT-EAP was, and still is, disabled by default
- * support a pregenerated MAC (mac_addr=3) as an alternative mechanism for using per-network random MAC addresses
- * EAP-PEAP: require Phase 2 authentication by default (phase2_auth=1) to improve security for still unfortunately common invalid configurations that do not set ca_cert
- * extend SCS support for QoS Characteristics
- * extend MSCS support
- * support unsynchronized service discovery (USD)
- * add support for explicit SSID

protection in 4-way handshake

- (a mitigation for CVE-2023-52424; disabled by default for now, can be enabled with ssid_protection=1)
 - in addition, verify SSID after key setup when beacon protection is used
- * fix SAE H2E rejected groups validation to avoid downgrade attacks
- * a large number of other fixes, cleanup, and extensions

2022-01-16 - v2.10

- * SAE changes
 - improved protection against side channel attacks
[<https://w1.fi/security/2022-1/>]
 - added support for the hash-to-element mechanism (sae_pwe=1 or sae_pwe=2); this is currently disabled by default, but will likely get enabled by default in the future
 - fixed PMKSA caching with OKC
 - added support for SAE-PK
- * EAP-pwd changes
 - improved protection against side channel attacks
[<https://w1.fi/security/2022-1/>]
- * fixed P2P provision discovery processing of a specially constructed invalid frame
[<https://w1.fi/security/2021-1/>]
- * fixed P2P group information processing of a specially constructed invalid frame
[<https://w1.fi/security/2020-2/>]

- * fixed PMF disconnection protection bypass in AP mode
[<https://w1.fi/security/2019-7/>]
- * added support for using OpenSSL 3.0
- * increased the maximum number of EAP message exchanges (mainly to support cases with very large certificates)
- * fixed various issues in experimental support for EAP-TEAP peer
- * added support for DPP release 2 (Wi-Fi Device Provisioning Protocol)
- * a number of MKA/MACsec fixes and extensions
- * added support for SAE (WPA3-Personal) AP mode configuration
- * added P2P support for EDMG (IEEE 802.11ay) channels
- * fixed EAP-FAST peer with TLS GCM/CCM ciphers
- * improved throughput estimation and BSS selection
- * dropped support for libnl 1.1
- * added support for nl80211 control port for EAPOL frame TX/RX
- * fixed OWE key derivation with groups 20 and 21; this breaks backwards compatibility for these groups while the default group 19 remains backwards compatible
- * added support for Beacon protection
- * added support for Extended Key ID for pairwise keys
- * removed WEP support from the default build (CONFIG_WEP=y can be used to enable it, if really needed)
- * added a build option to remove TKIP support (CONFIG_NO_TKIP=y)
- * added support for Transition Disable mechanism to allow the AP to automatically disable transition mode to improve security
- * extended D-Bus interface
- * added support for PASN
- * added a file-based backend for external password storage to allow secret information to be moved away from the main configuration file without requiring external tools
- * added EAP-TLS peer support for TLS 1.3 (disabled by default for now)
- * added support for SCS, MSCS, DSCP policy
- * changed driver interface selection to default to automatic fallback to other compiled in options
- * a large number of other fixes, cleanup, and extensions

2019-08-07 - v2.9

- * SAE changes
 - disable use of groups using Brainpool curves
 - improved protection against side channel attacks
[<https://w1.fi/security/2019-6/>]
- * EAP-pwd changes
 - disable use of groups using Brainpool curves
 - allow the set of groups to be configured (eap_pwd_groups)
 - improved protection against side channel attacks
[<https://w1.fi/security/2019-6/>]
- * fixed FT-EAP initial mobility domain association using PMKSA caching

- (disabled by default for backwards compatibility; can be enabled with `ft_eap_pmksa_caching=1`)
- * fixed a regression in OpenSSL 1.1+ engine loading
- * added validation of RSNE in (Re)Association Response frames
- * fixed DPP bootstrapping URI parser of channel list
- * extended EAP-SIM/AKA fast re-authentication to allow use with FILS
- * extended `ca_cert_blob` to support PEM format
- * improved robustness of P2P Action frame scheduling
- * added support for EAP-SIM/AKA using `anonymous@realm` identity
- * fixed Hotspot 2.0 credential selection based on roaming consortium to ignore credentials without a specific EAP method
- * added experimental support for EAP-TEAP peer (RFC 7170)
- * added experimental support for EAP-TLS peer with TLS v1.3
- * fixed a regression in WMM parameter configuration for a TDLS peer
- * fixed a regression in operation with drivers that offload 802.1X 4-way handshake
- * fixed an ECDH operation corner case with OpenSSL

2019-04-21 - v2.8

- * SAE changes
 - added support for SAE Password Identifier
 - changed default configuration to enable only groups 19, 20, 21 (i.e., disable groups 25 and 26) and disable all unsuitable groups completely based on REVmd changes
 - do not regenerate PWE unnecessarily when the AP uses the anti-clogging token mechanisms
 - fixed some association cases where both SAE and FT-SAE were enabled on both the station and the selected AP
 - started to prefer FT-SAE over SAE AKM if both are enabled
 - started to prefer FT-SAE over FT-PSK if both are enabled
 - fixed FT-SAE when SAE PMKSA caching is used
 - reject use of unsuitable
- groups based on new implementation guidance
 - in REVmd (allow only FFC groups with prime ≥ 3072 bits and ECC groups with prime ≥ 256)
 - minimize timing and memory use differences in PWE derivation [<https://w1.fi/security/2019-1/>] (CVE-2019-9494)
- * EAP-pwd changes
 - minimize timing and memory use differences in PWE derivation [<https://w1.fi/security/2019-2/>] (CVE-2019-9495)
 - verify server scalar/element [<https://w1.fi/security/2019-4/>] (CVE-2019-9499)
 - fix message reassembly issue with unexpected fragment [<https://w1.fi/security/2019-5/>]
 - enforce rand,mask generation rules more strictly
 - fix a memory leak in PWE derivation
 - disallow ECC groups with a prime under 256 bits (groups 25, 26, and

27)

- * fixed CONFIG_IEEE80211R=y (FT) build without CONFIG_FILS=y
- * Hotspot 2.0 changes
 - do not indicate release number that is higher than the one AP supports
 - added support for release number 3
 - enable PMF automatically
- for network profiles created from credentials
- * fixed OWE network profile saving
- * fixed DPP network profile saving
- * added support for RSN operating channel validation (CONFIG_OCV=y and network profile parameter ocv=1)
- * added Multi-AP backhaul STA support
- * fixed build with LibreSSL
- * number of MKA/MACsec fixes and extensions
- * extended domain_match and domain_suffix_match to allow list of values
- * fixed dNSName matching in domain_match and domain_suffix_match when using wolfSSL
- * started to prefer FT-EAP-SHA384 over WPA-EAP-SUITE-B-192 AKM if both are enabled
- * extended nl80211 Connect and external authentication to support SAE, FT-SAE, FT-EAP-SHA384
- * fixed KEK2 derivation for FILS+FT
- * extended client_cert file to allow loading of a chain of PEM encoded certificates
- * extended beacon reporting functionality
- * extended D-Bus interface with number of new properties
- * fixed a regression in FT-over-DS with mac80211-based drivers
- * OpenSSL: allow systemwide policies to be overridden
- * extended driver flags indication for separate 802.1X and PSK 4-way handshake offload capability
- * added support for random P2P Device/Interface Address use
- * extended PEAP to derive EMSK to enable use with ERP/FILS
- * extended WPS to allow SAE configuration to be added automatically for PSK (wps_cred_add_sae=1)
- * removed support for the old D-Bus interface (CONFIG_CTRL_IFACE_DBUS)
- * extended domain_match and domain_suffix_match to allow list of values
- * added a RSN workaround for misbehaving PMF APs that advertise GTK/BIP KeyID using incorrect byte order
- * fixed PTK rekeying with FILS and FT

2018-12-02 - v2.7

- * fixed WPA packet number reuse with replayed messages and key reinstallation
- [<https://w1.fi/security/2017-1/>] (CVE-2017-13077, CVE-2017-13078, CVE-2017-13079, CVE-2017-13080, CVE-2017-13081, CVE-2017-13082,

CVE-2017-13086, CVE-2017-13087, CVE-2017-13088)

- * fixed unauthenticated EAPOL-Key decryption in wpa_supplicant

[<https://w1.fi/security/2018-1/>] (CVE-2018-14526)

- * added support for FILS (IEEE 802.11ai) shared key authentication
 - * added support for OWE (Opportunistic Wireless Encryption, RFC 8110; and transition mode defined by WFA)
 - * added support for DPP (Wi-Fi Device Provisioning Protocol)
 - * added support for RSA 3k key case with Suite B 192-bit level
 - * fixed Suite B PMKSA caching not to update PMKID during each 4-way handshake
 - * fixed EAP-pwd pre-processing with PasswordHashHash
 - * added EAP-pwd client support for salted passwords
 - * fixed a regression in TDLS prohibited bit validation
 - * started to use estimated throughput to avoid undesired signal strength based roaming decision
 - * MACsec/MKA:
 - new macsec_linux driver interface support for the Linux kernel macsec module
 - number of fixes and extensions
 - * added support for external persistent storage of PMKSA cache (PMKSA_GET/PMKSA_ADD control interface commands; and MESH_PMKSA_GET/MESH_PMKSA_SET for the mesh case)
 - * fixed mesh channel configuration pri/sec switch case
 - * added support for beacon report
 - * large number of other fixes, cleanup, and extensions
 - * added support for randomizing local address for GAS queries (gas_rand_mac_addr parameter)
 - * fixed EAP-SIM/AKA/AKA' ext auth cases within TLS tunnel
 - * added option for using random WPS UUID (auto_uuid=1)
 - * added SHA256-hash support for OCSP certificate matching
 - * fixed EAP-AKA' to add AT_KDF into Synchronization-Failure
 - * fixed a regression in RSN pre-authentication candidate selection
 - * added option to configure allowed group management cipher suites (group_mgmt network profile parameter)
 - * removed all PeerKey functionality
 - * fixed nl80211 AP and mesh mode configuration regression with Linux 4.15 and newer
 - * added ap_isolate configuration option for AP mode
 - * added support for nl80211 to offload 4-way handshake into the driver
 - * added support for using wolfSSL cryptographic library
 - * SAE
 - added support
- for configuring SAE password separately of the WPA2 PSK/passphrase
- fixed PTK and EAPOL-Key integrity and key-wrap algorithm selection for SAE;

note: this is not backwards compatible, i.e., both the AP and station side implementations will need to be update at the same time to maintain interoperability

- added support for Password Identifier
- fixed FT-SAE PMKID matching

* Hotspot 2.0

- added support for fetching of Operator Icon Metadata ANQP-element
- added support for Roaming Consortium Selection element
- added support for Terms and Conditions
- added support for OSEN connection in a shared RSN BSS
- added support for fetching Venue URL information

* added support for using OpenSSL 1.1.1

* FT

- disabled PMKSA caching with FT since it is not fully functional
- added support for SHA384 based AKM
- added support for BIP ciphers BIP-CMAC-256, BIP-GMAC-128, BIP-GMAC-256 in addition to previously supported BIP-CMAC-128

- fixed additional IE inclusion in Reassociation Request frame when using FT protocol

2016-10-02 - v2.6

- * fixed WNM Sleep Mode processing when PMF is not enabled
[<http://w1.fi/security/2015-6/>] (CVE-2015-5310)
- * fixed EAP-pwd last fragment validation
[<http://w1.fi/security/2015-7/>] (CVE-2015-5315)
- * fixed EAP-pwd unexpected Confirm message processing
[<http://w1.fi/security/2015-8/>] (CVE-2015-5316)
- * fixed WPS configuration update vulnerability with malformed passphrase
[<http://w1.fi/security/2016-1/>] (CVE-2016-4476)
- * fixed configuration update vulnerability with malformed parameters set over the local control interface
[<http://w1.fi/security/2016-1/>] (CVE-2016-4477)
- * fixed TK configuration to the driver in EAPOL-Key 3/4 retry case
- * extended channel switch support for P2P GO
- * started to throttle control interface event message bursts to avoid issues with monitor sockets running out of buffer space
- * mesh mode fixes/improvements
 - generate

proper AID for peer

- enable WMM by default
- add VHT support
- fix PMKID derivation
- improve robustness on various exchanges
- fix peer link counting in reconnect case
- improve mesh joining behavior
- allow DTIM period to be configured
- allow HT to be disabled (disable_ht=1)

- add MESH_PEER_ADD and MESH_PEER_REMOVE commands
- add support for PMKSA caching
- add minimal support for SAE group negotiation
- allow pairwise/group cipher to be configured in the network profile
- use ieee80211w profile parameter to enable/disable PMF and derive a separate TX GTK if PMF is enabled instead of using GTK incorrectly
- fix GTK and MTK derivation
- remove GTKdata and GTKdata from Mesh Peering Confirm/Close
- note: these changes are not fully backwards compatible for secure (RSN) mesh network
- * fixed PMKID derivation with SAE
- * added support for requesting and fetching arbitrary ANQP-elements without internal support in wpa_supplicant for the specific element
(anqp[265]=<hexdump> in "BSS <BSSID>" command output)
- * P2P
 - filter control characters in group client device names to be consistent with other P2P peer cases
 - support VHT 80+80 MHz and 160 MHz
 - indicate group completion in P2P Client role after data association instead of already after the WPS provisioning step
 - improve group-join operation to use SSID, if known, to filter BSS entries
 - added optional ssid=<hexdump> argument to P2P_CONNECT for join case
 - added P2P_GROUP_MEMBER command to fetch client interface address
- * P2PS
 - fix follow-on PD Response behavior
 - fix PD Response generation for unknown peer
 - fix persistent group reporting
 - add channel policy to PD Request
 - add group SSID to the P2PS-PROV-DONE event
 - allow "P2P_CONNECT <addr> p2ps" to be used without specifying the default PIN
- * BoringSSL
 - support for OCSP stapling
 - support building of h20-osu-client
- * D-Bus
 - add ExpectDisconnect()
 - add global config parameters as properties
 - add SaveConfig()
 - add VendorElemAdd(), VendorElemGet(), VendorElemRem()
- * fixed Suite B 192-bit AKM to use proper PMK length
(note: this makes old releases incompatible with the fixed behavior)
- * improved PMF behavior for cases where the AP and STA has different configuration by not trying to connect in some corner cases where the connection cannot succeed

- * added option to reopen debug log (e.g., to rotate the file) upon receipt of SIGHUP signal
- * EAP-pwd: added support for Brainpool Elliptic Curves (with OpenSSL 1.0.2 and newer)
- * fixed EAPOL reauthentication after FT protocol run
- * fixed FTIE generation for 4-way handshake after FT protocol run
- * extended INTERFACE_ADD command to allow certain type (sta/ap) interface to be created
- * fixed and improved various FST operations
- * added 80+80 MHz and 160 MHz VHT support for IBSS/mesh
- * fixed SIGNAL_POLL in IBSS and mesh cases
- *
- added an option to abort an ongoing scan (used to speed up connection and can also be done with the new ABORT_SCAN command)
- * TLS client
 - do not verify CA certificates when ca_cert is not specified
 - support validating server certificate hash
 - support SHA384 and SHA512 hashes
 - add signature_algorithms extension into ClientHello
 - support TLS v1.2 signature algorithm with SHA384 and SHA512
 - support server certificate probing
 - allow specific TLS versions to be disabled with phase2 parameter
 - support extKeyUsage
 - support PKCS #5 v2.0 PBES2
 - support PKCS #5 with PKCS #12 style key decryption
 - minimal support for PKCS #12
 - support OCSP stapling (including ocsp_multi)
- * OpenSSL
 - support OpenSSL 1.1 API changes
 - drop support for OpenSSL 0.9.8
 - drop support for OpenSSL 1.0.0
- * added support for multiple schedule scan plans (sched_scan_plans)
- * added support for external server certificate chain validation (tls_ext_cert_check=1 in the network profile phase1 parameter)
- * made phase2 parser more strict about correct use of auth=<val> and autheap=<val> values
- * improved GAS offchannel operations with comeback request
- * added SIGNAL_MONITOR command to request signal strength monitoring events
- * added command for retrieving HS 2.0 icons with in-memory storage (REQ_HS20_ICON, GET_HS20_ICON, DEL_HS20_ICON commands and RX-HS20-ICON event)
- * enabled ACS support for AP mode operations with wpa_supplicant
- * EAP-PEAP: fixed interoperability issue with Windows 2012r2 server ("Invalid Compound_MAC in cryptobinding TLV")
- * EAP-TTLS: fixed success after fragmented final Phase 2 message
- * VHT: added interoperability workaround for 80+80 and 160 MHz channels

- * WNM: workaround for broken AP operating class behavior
- * added kqueue(2) support for eloop (CONFIG_ELOOP_KQUEUE)
- * nl80211:
 - add support for full station state operations
 - do not add NL80211_ATTR_SMPS_MODE attribute if HT is disabled
- add NL80211_ATTR_PREV_BSSID with Connect command
- fix IEEE 802.1X/WEP EAP reauthentication and rekeying to use unencrypted EAPOL frames
- * added initial MBO support; number of extensions to WNM BSS Transition Management
- * added support for PBSS/PCP and P2P on 60 GHz
- * Interworking: add credential realm to EAP-TLS identity
- * fixed EAPOL-Key Request Secure bit to be 1 if PTK is set
- * HS 2.0: add support for configuring frame filters
- * added POLL_STA command to check connectivity in AP mode
- * added initial functionality for location related operations
- * started to ignore pmf=1/2 parameter for non-RSN networks
- * added wps_disabled=1 network profile parameter to allow AP mode to be started without enabling WPS
- * wpa_cli: added action script support for AP-ENABLED and AP-DISABLED events
- * improved Public Action frame addressing
 - add gas_address3 configuration parameter to control Address 3 behavior
- * number of small fixes

2015-09-27 - v2.5

- *
 - fixed P2P validation of SSID element length before copying it
[<http://w1.fi/security/2015-1/>] (CVE-2015-1863)
 - * fixed WPS UPnP vulnerability with HTTP chunked transfer encoding
[<http://w1.fi/security/2015-2/>] (CVE-2015-4141)
 - * fixed WMM Action frame parser (AP mode)
[<http://w1.fi/security/2015-3/>] (CVE-2015-4142)
 - * fixed EAP-pwd peer missing payload length validation
[<http://w1.fi/security/2015-4/>]
(CVE-2015-4143, CVE-2015-4144, CVE-2015-4145, CVE-2015-4146)
 - * fixed validation of WPS and P2P NFC NDEF record payload length
[<http://w1.fi/security/2015-5/>]
- * nl80211:
 - added VHT configuration for IBSS
 - fixed vendor command handling to check OUI properly
 - allow driver-based roaming to change ESS
- * added AVG_BEACON_RSSI to SIGNAL_POLL output
- * wpa_cli: added tab completion for number of commands
- * removed unmaintained and not yet completed SChannel/CryptoAPI support
- * modified Extended Capabilities element use in Probe Request frames to

- include all
- cases if any of the values are non-zero
- * added support for dynamically creating/removing a virtual interface with interface_add/interface_remove
- * added support for hashed password (NtHash) in EAP-pwd peer
- * added support for memory-only PSK/passphrase (mem_only_psk=1 and CTRL-REQ/RSP-PSK_PASSPHRASE)
- * P2P
 - optimize scan frequencies list when re-joining a persistent group
 - fixed number of sequences with nl80211 P2P Device interface
 - added operating class 125 for P2P use cases (this allows 5 GHz channels 161 and 169 to be used if they are enabled in the current regulatory domain)
 - number of fixes to P2PS functionality
 - do not allow 40 MHz co-ex PRI/SEC switch to force MCC
 - extended support for preferred channel listing
- * D-Bus:
 - fixed WPS property of fi.w1.wpa_supPLICANT1.BSS interface
 - fixed PresenceRequest to use group interface
 - added new signals: FindStopped, WPS pbc-overlap, GroupFormationFailure, WPS timeout, InvitationReceived
- added new methods: WPS Cancel, P2P Cancel, Reconnect, RemoveClient
- added manufacturer info
- * added EAP-EKE peer support for deriving Session-Id
- * added wps_priority configuration parameter to set the default priority for all network profiles added by WPS
- * added support to request a scan with specific SSIDs with the SCAN command (optional "ssid <hexdump>" arguments)
- * removed support for WEP40/WEP104 as a group cipher with WPA/WPA2
- * fixed SAE group selection in an error case
- * modified SAE routines to be more robust and PWE generation to be stronger against timing attacks
- * added support for Brainpool Elliptic Curves with SAE
- * added support for CCMP-256 and GCMP-256 as group ciphers with FT
- * fixed BSS selection based on estimated throughput
- * added option to disable TLSv1.0 with OpenSSL (phase1="tls_disable_tlsv1_0=1")
- * added Fast Session Transfer (FST) module
- * fixed OpenSSL PKCS#12 extra certificate handling
- * fixed key derivation for Suite B 192-bit AKM (this breaks compatibility with the earlier version)
- * added RSN IE to Mesh Peering Open/Confirm frames
- * number of small fixes

2015-03-15 - v2.4

- * allow OpenSSL cipher configuration to be set for internal EAP server

- (openssl_ciphers parameter)
- * fixed number of small issues based on hwsim test case failures and static analyzer reports
- * P2P:
 - add new=<0/1> flag to P2P-DEVICE-FOUND events
 - add passive channels in invitation response from P2P Client
 - enable nl80211 P2P_DEVICE support by default
 - fix regression in disallow_freq preventing search on social channels
 - fix regressions in P2P SD query processing
 - try to re-invite with social operating channel if no common channels in invitation
 - allow cross connection on parent interface (this fixes number of use cases with nl80211)
 - add support for P2P services (P2PS)
 - add p2p_go_ctwindow configuration parameter to allow GO CTWindow to be configured
- *
 - increase postponing of EAPOL-Start by one second with AP/GO that supports WPS 2.0 (this makes it less likely to trigger extra roundtrip of identity frames)
- * add support for PMKSA caching with SAE
- * add support for control mesh BSS (IEEE 802.11s) operations
- * fixed number of issues with D-Bus P2P commands
- * fixed regression in ap_scan=2 special case for WPS
- * fixed macsec_validate configuration
- * add a workaround for incorrectly behaving APs that try to use EAPOL-Key descriptor version 3 when the station supports PMF even if PMF is not enabled on the AP
- * allow TLS v1.1 and v1.2 to be negotiated by default; previous behavior of disabling these can be configured to work around issues with broken servers with phase1="tls_disable_tlsv1_1=1 tls_disable_tlsv1_2=1"
- * add support for Suite B (128-bit and 192-bit level) key management and cipher suites
- * add WMM-AC support (WMM_AC_ADDTS/WMM_AC_DELTS)
- * improved BSS Transition Management processing
- * add support
 - for neighbor report
- * add support for link measurement
- * fixed expiration of BSS entry with all-zeros BSSID
- * add optional LAST_ID=x argument to LIST_NETWORK to allow all configured networks to be listed even with huge number of network profiles
- * add support for EAP Re-Authentication Protocol (ERP)
- * fixed EAP-IKEv2 fragmentation reassembly
- * improved PKCS#11 configuration for OpenSSL
- * set stdout to be line-buffered
- * add TDLS channel switch configuration

- * add support for MAC address randomization in scans with nl80211
- * enable HT for IBSS if supported by the driver
- * add BSSID black and white lists (bssid_blacklist, bssid_whitelist)
- * add support for domain_suffix_match with GnuTLS
- * add OCSP stapling client support with GnuTLS
- * include peer certificate in EAP events even without a separate probe operation; old behavior can be restored with cert_in_cb=0
- * add peer certificate alt subject name to EAP events (CTRL-EVENT-EAP-PEER-ALT)
- * add domain_match network profile parameter (similar to domain_suffix_match, but full match is required)
- * enable AP/GO mode HT Tx STBC automatically based on driver support
- * add ANQP-QUERY-DONE event to provide information on ANQP parsing status
- * allow passive scanning to be forced with passive_scan=1
- * add a workaround for Linux packet socket behavior when interface is in bridge
- * increase 5 GHz band preference in BSS selection (estimate SNR, if info not available from driver; estimate maximum throughput based on common HT/VHT/specific TX rate support)
- * add INTERWORKING_ADD_NETWORK ctrl_iface command; this can be used to implement Interworking network selection behavior in upper layers software components
- * add optional reassoc_same_bss_optim=1 (disabled by default) optimization to avoid unnecessary Authentication frame exchange
- * extend TDLS frame padding workaround to cover all packets
- * allow wpa_supplicant to recover nl80211 functionality if the cfg80211 module gets removed and reloaded without restarting wpa_supplicant
- * allow hostapd DFS implementation to be used in wpa_supplicant AP mode

2014-10-09 - v2.3

- * fixed number of minor issues identified in static analyzer warnings
- * fixed wfd_dev_info to be more careful and not read beyond the buffer when parsing invalid information for P2P-DEVICE-FOUND
- * extended P2P and GAS query operations to support drivers that have maximum remain-on-channel time below 1000 ms (500 ms is the current minimum supported value)
- * added p2p_search_delay parameter to make the default p2p_find delay configurable
- * improved P2P operating channel selection for various multi-channel concurrency cases
- * fixed some TDLS failure cases to clean up driver state
- * fixed dynamic interface addition cases with nl80211 to avoid adding ifindex values to incorrect interface to skip foreign interface events properly
- * added TDLS workaround for some APs that may add extra data to the

end of a short frame

- * fixed EAP-AKA' message parser with multiple AT_KDF attributes
- * added configuration option (p2p_passphrase_len) to allow longer passphrases to be generated for P2P groups
- * fixed IBSS channel configuration in some corner cases
- * improved HT/VHT/QoS parameter setup for TDLS
- * modified D-Bus interface for P2P peers/groups
- * started to use constant time comparison for various password and hash values to reduce possibility of any externally measurable timing differences
- * extended explicit clearing of freed memory and expired keys to avoid keeping private data in memory longer than necessary
- * added optional scan_id parameter to the SCAN command to allow manual scan requests for active scans for specific configured SSIDs
- * fixed CTRL-EVENT-REGDOM-CHANGE event init parameter value
- * added option to set Hotspot 2.0 Rel 2 update_identifier in network configuration to support external configuration
- * modified Android PNO functionality to send Probe Request frames only for hidden SSIDs (based on scan_ssid=1)
- * added generic mechanism for adding vendor elements into frames at runtime (VENDOR_ELEM_ADD, VENDOR_ELEM_GET, VENDOR_ELEM_REMOVE)
- * added fields to show unrecognized vendor elements in P2P_PEER
- * removed EAP-TTLS/MSCHAPv2 interoperability workaround so that MS-CHAP2-Success is required to be present regardless of eap_workaround configuration
- * modified EAP fast session resumption to allow results to be used only with the same network block that generated them
- * extended freq_list configuration to apply for sched_scan as well as normal scan
- * modified WPS to merge mixed-WPA/WPA2 credentials from a single session
- * fixed nl80211/RTM_DELLINK processing when a P2P GO interface is removed from a bridge
- * fixed number of small P2P issues to make negotiations more robust in corner cases
- * added experimental support for using temporary, random local MAC address (mac_addr and preassoc_mac_addr parameters); this is disabled by default (i.e., previous behavior of using permanent address is maintained if configuration is not changed)
- * added D-Bus interface for setting/clearing WFD IEs
- * fixed TDLS AID configuration for VHT
- * modified -m<conf> configuration file to be used only for the P2P non-netdev management device and do not load this for the default station interface or load the station interface configuration for the P2P management interface
- * fixed external MAC address changes while wpa_supplicant is running

- * started to enable HT (if supported by the driver) for IBSS
- * fixed wpa_cli action script execution to use more robust mechanism (CVE-2014-3686)

2014-06-04 - v2.2

- * added DFS indicator to get_capability freq
- * added/fixed nl80211 functionality
 - BSSID/frequency hint for driver-based BSS selection
 - fix tearing down WDS STA interfaces
 - support vendor specific driver command (VENDOR <vendor id> <sub command id> [<hex formatted data>])
- GO interface teardown optimization
- allow beacon interval to be configured for IBSS
- add SHA256-based AKM suites to CONNECT/ASSOCIATE commands
- * removed unused NFC_RX_HANDOVER_REQ and NFC_RX_HANDOVER_SEL control interface commands (the more generic NFC_REPORT_HANDOVER is now used)
- * fixed MSCHAP UTF-8 to UCS-2 conversion for three-byte encoding; this fixes password with include UTF-8 characters that use three-byte encoding EAP methods that use NtPasswordHash
- * fixed couple of sequences where radio work items could get stuck, e.g., when rfkill blocking happens during scanning or when scan-for-auth workaround is used
- * P2P enhancements/fixes
 - enable enable U-APSD on GO automatically if the driver indicates support for this
 - fixed some service discovery cases with broadcast queries not being sent to all stations
 - fixed Probe Request frame triggering invitation to trigger only a single invitation instance even if multiple Probe Request frames are received
 - fixed a potential NULL pointer dereference crash when processing an invalid Invitation Request frame
 - add optional configuration file for the P2P_DEVICE parameters
 - optimize scan for GO during persistent group invocation
 - fix possible segmentation fault when PBC overlap is detected while using a separate P2P group interface
 - improve GO Negotiation robustness by allowing GO Negotiation Confirmation to be retransmitted
 - do use freed memory on device found event when P2P NFC
- * added phase1 network parameter options for disabling TLS v1.1 and v1.2 to allow workarounds with misbehaving AAA servers (tls_disable_tlsv1_1=1 and tls_disable_tlsv1_2=1)
- * added support for OCSP stapling to validate AAA server certificate during TLS exchange
- * Interworking/Hotspot 2.0 enhancements
 - prefer the last added network in Interworking connection to make the

- behavior more consistent with likely user expectation
- roaming
- partner configuration (roaming_partner within a cred block)
 - support Hotspot 2.0 Release 2
 - * "hs20_anqp_get <BSSID> 8" to request OSU Providers list
 - * "hs20_icon_request <BSSID> <icon filename>" to request icon files
 - * "fetch_osu" and "cancel_osu_fetch" to start/stop full OSU provider search (all suitable APs in scan results)
 - * OSEN network for online signup connection
 - * min_{dl,ul}_bandwidth_{home,roaming} cred parameters
 - * max_bss_load cred parameter
 - * req_conn_capab cred parameter
 - * sp_priority cred parameter
 - * ocsf cred parameter
 - * slow down automatic connection attempts on EAP failure to meet required behavior (no more than 10 retries within a 10-minute interval)
 - * sample implementation of online signup client (both SPP and OMA-DM protocols) (hs20/client/*)
 - fixed GAS indication for additional comeback delay with status code 95
 - extend ANQP_GET to accept Hotspot 2.0 subtypes

- ANQP_GET <addr> <info id>[,<info id>]...
 [,hs20:<subtype>][...,hs20:<subtype>]
- add control interface events CRED-ADDED <id>,
CRED-MODIFIED <id> <field>, CRED-REMOVED <id>
 - add "GET_CRED <id> <field>" command
 - enable FT for the connection automatically if the AP advertises support for this
 - fix a case where auto_interworking=1 could end up stopping scanning
 - * fixed TDLS interoperability issues with supported operating class in some deployed stations
 - * internal TLS implementation enhancements/fixes
 - add SHA256-based cipher suites
 - add DHE-RSA cipher suites
 - fix X.509 validation of PKCS#1 signature to check for extra data
 - * fixed PTK derivation for CCMP-256 and GCMP-256
 - * added "reattach" command for fast reassociate-back-to-same-BSS
 - * allow PMF to be enabled for AP mode operation with the ieee80211w parameter
 - * added "get_capability tdls" command
 - * added option to set config blobs through control interface with "SET blob <name>
<hexdump>"
 - * D-Bus interface extensions/fixes
 - make p2p_no_group_iface configurable
 - declare ServiceDiscoveryRequest method properly

- export peer's device address as a property
- make reassociate command behave like the control interface one, i.e., to allow connection from disconnected state
- * added optional "freq=<channel ranges>" parameter to SET pno
- * added optional "freq=<channel ranges>" parameter to SELECT_NETWORK
- * fixed OBSS scan result processing for 20/40 MHz co-ex report
- * remove WPS 1.0 only support, i.e., WSC 2.0 support is now enabled whenever CONFIG_WPS=y is set
- * fixed regression in parsing of WNM Sleep Mode exit key data
- * fixed potential segmentation fault and memory leaks in WNM neighbor report processing
- * EAP-pwd fixes
 - fragmentation of PWD-Confirm-Resp
 - fix memory leak when fragmentation is used
 - fix possible segmentation fault on EAP method deinit if an invalid group is negotiated
- * added MACsec/IEEE Std 802.1X-2010 PAE implementation (currently available only with the macsec_qca driver wrapper)
- * fixed EAP-SIM counter-too-small message
- * added 'dup_network <id_s> <id_d> <name>' command; this can be used to clone the psk field without having to extract it from wpa_supplicant
- * fixed GSM authentication on USIM
- * added support for using epoll in eloop (CONFIG_ELOOP_EPOLL=y)
- * fixed some concurrent virtual interface cases with dedicated P2P management interface to not catch events from removed interface (this could result in the management interface getting disabled)
- * fixed a memory leak in SAE random number generation
- * fixed off-by-one bounds checking in printf_encode()
 - this could result in some control interface ATTACH command cases terminating wpa_supplicant
- * fixed EAPOL-Key exchange when GCMP is used with SHA256-based AKM
- * various bug fixes

2014-02-04 - v2.1

- * added support for simultaneous authentication of equals (SAE) for stronger password-based authentication with WPA2-Personal
- * improved P2P negotiation and group formation robustness
 - avoid unnecessary Dialog Token value changes during retries
 - avoid more concurrent scanning cases during full group formation sequence
 - do not use potentially obsolete scan result data from driver cache for peer discovery/updates
 - avoid undesired re-starting of GO negotiation based on Probe Request frames
 - increase GO Negotiation and Invitation timeouts to address busy environments and peers that take long time to react to messages,

- e.g., due to power saving
- P2P Device interface type
- * improved P2P channel selection (use more peer information and allow more local options)
- * added support for optional per-device PSK assignment by P2P GO (wpa_cli p2p_set per_sta_psk <0/1>)
- * added P2P_REMOVE_CLIENT for removing a client from P2P groups (including persistent groups); this can be used to securely remove a client from a group if per-device PSKs are used
- * added more configuration flexibility for allowed P2P GO/client channels (p2p_no_go_freq list and p2p_add_cli_chan=0/1)
- * added nl80211 functionality
 - VHT configuration for nl80211
 - MFP (IEEE 802.11w) information for nl80211 command API
 - support split wiphy dump
 - FT (IEEE 802.11r) with driver-based SME
 - use advertised number of supported concurrent channels
 - QoS Mapping configuration
- * improved TDLS negotiation robustness
- * added more TDLS peer parameters to be configured to the driver
- * optimized connection time by allowing recently received scan results to be used instead of having to run through a new scan
- * fixed ctrl_iface BSS command iteration with RANGE argument and no exact matches; also fixed argument parsing for some cases with multiple arguments
- * added 'SCAN TYPE=ONLY' ctrl_iface command to request manual scan without executing roaming/network re-selection on scan results
- * added Session-Id derivation for EAP peer methods
- * added fully automated regression testing with mac80211_hwsim
- * changed configuration parser to reject invalid integer values
- * allow AP/Enrollee to be specified with BSSID instead of UUID for WPS ER operations
- * disable network block temporarily on repeated connection failures
- * changed the default driver interface from wext to nl80211 if both are included in the build
- * remove duplicate networks if WPS provisioning is run multiple times
- * remove duplicate networks when Interworking network selection uses the same network
- * added global freq_list configuration to allow scan frequencies to be limited for all cases instead of just for a specific network block
- * added support for BSS Transition Management
- * added option to use "IFNAME=<ifname> " prefix to use the global control interface connection to perform per-interface commands; similarly, allow global control interface to be used as a monitor interface to receive events from all interfaces
- *

- fixed OKC-based PMKSA cache entry clearing
- * fixed TKIP group key configuration with FT
- * added support for using OCSP stapling to validate server certificate (ocsp=1 as optional and ocsp=2 as mandatory)
- * added EAP-EKE peer
- * added peer restart detection for IBSS RSN
- * added domain_suffix_match (and domain_suffix_match2 for Phase 2 EAP-TLS) to specify additional constraint for the server certificate domain name
- * added support for external SIM/USIM processing in EAP-SIM, EAP-AKA, and EAP-AKA' (CTRL-REQ-SIM and CTRL-RSP-SIM commands over control interface)
- * added global bgscan configuration option as a default for all network blocks that do not specify their own bgscan parameters
- * added D-Bus methods for TDLS
- * added more control to scan requests
 - "SCAN freq=<freq list>" can be used to specify which channels are scanned (comma-separated frequency ranges in MHz)
 - "SCAN passive=1" can be used to request a passive scan (no Probe Request frames are sent)
 - "SCAN use_id" can be used to request a scan id to be returned and included in event messages related to this specific scan operation
 - "SCAN only_new=1" can be used to request the driver/cfg80211 to report only BSS entries that have been updated during this scan round
 - these optional arguments to the SCAN command can be combined with each other
- * modified behavior on externally triggered scans
 - avoid concurrent operations requiring full control of the radio when an externally triggered scan is detected
 - do not use results for internal roaming decision
- * added a new cred block parameter 'temporary' to allow credential blocks to be stored separately even if wpa_supplicant configuration file is used to maintain other network information
- * added "radio work" framework to schedule exclusive radio operations for off-channel functionality
 - reduce issues with concurrent operations that try to control which channel is used
 - allow external programs to request exclusive radio control in a way that avoids conflicts with wpa_supplicant
- * added support for using Protected Dual of Public Action frames for GAS/ANQP exchanges when associated with PMF
- * added support for WPS+NFC updates and P2P+NFC
 - improved protocol for WPS
 - P2P group formation/join based on NFC connection handover
 - new IPv4 address assignment for P2P groups (ip_addr_* configuration

- parameters on the GO) to replace DHCP
- option to fetch and report alternative carrier records for external NFC operations
- * various bug fixes

2013-01-12 - v2.0

- * removed Qt3-based wpa_gui (obsoleted by wpa_gui-qt4)
- * removed unmaintained driver wrappers broadcom, iphone, osx, ralink, hostap, madwifi (hostap and madwifi remain available for hostapd; their wpa_supplicant functionality is obsoleted by wext)
- * improved debug logging (human readable event names, interface name included in more entries)
- *
- changed AP mode behavior to enable WPS only for open and WPA/WPA2-Personal configuration
- * improved P2P concurrency operations
 - better coordination of concurrent scan and P2P search operations
 - avoid concurrent remain-on-channel operation requests by canceling previous operations prior to starting a new one
 - reject operations that would require multi-channel concurrency if the driver does not support it
 - add parameter to select whether STA or P2P connection is preferred if the driver cannot support both at the same time
 - allow driver to indicate channel changes
 - added optional delay=<search delay in milliseconds> parameter for p2p_find to avoid taking all radio resources
 - use 500 ms p2p_find search delay by default during concurrent operations
 - allow all channels in GO Negotiation if the driver supports multi-channel concurrency
- * added number of small changes to make it easier for static analyzers to understand the implementation
- * fixed number of small bugs (see git logs for more details)
- * nl80211: number of updates to use new cfg80211/nl80211 functionality
 - replace monitor interface with nl80211 commands for AP mode
 - additional information for driver-based AP SME
 - STA entry authorization in RSN IBSS
- * EAP-pwd:
 - fixed KDF for group 21 and zero-padding
 - added support for fragmentation
 - increased maximum number of hunting-and-pecking iterations
- * avoid excessive Probe Response retries for broadcast Probe Request frames (only with drivers using wpa_supplicant AP mode SME/MLME)
- * added "GET country" ctrl_iface command
- * do not save an invalid network block in wpa_supplicant.conf to avoid problems reading the file on next start
- * send STA connected/disconnected ctrl_iface events to both the P2P

group and parent interfaces

- * added preliminary support for using TLS v1.2 (CONFIG_TLSV12=y)
- * added "SET pno <1/0>" ctrl_iface command to start/stop preferred network

offload with sched_scan driver command

- * merged in number of changes from Android repository for P2P, nl80211, and build parameters
- * changed P2P GO mode configuration to use driver capabilities to automatically enable HT operations when supported
- * added "wpa_cli status wps" command to fetch WPA2-Personal passphrase for WPS use cases in AP mode
- * EAP-AKA: keep pseudonym identity across EAP exchanges to match EAP-SIM behavior
- * improved reassociation behavior in cases where association is rejected or when an AP disconnects us to handle common load balancing mechanisms
 - try to avoid extra scans when the needed information is available
- * added optional "join" argument for p2p_prov_disc ctrl_iface command
- * added group ifname to P2P-PROV-DISC-* events
- * added P2P Device Address to AP-STA-DISCONNECTED event and use p2p_dev_addr parameter name with AP-STA-CONNECTED
- * added workarounds for WPS PBC overlap detection for some P2P use cases where deployed stations work incorrectly
- * optimize WPS connection speed by disconnecting prior to WPS scan and by using single channel scans when AP channel is known
- * PCSC and SIM/USIM improvements:
 - accept 0x67 (Wrong length) as a response to READ RECORD to fix issues with some USIM cards
 - try to read MNC length from SIM/USIM
 - build realm according to 3GPP TS 23.003 with identity from the SIM
 - allow T1 protocol to be enabled
- * added more WPS and P2P information available through D-Bus
- * improve P2P negotiation robustness
 - extra waits to get ACK frames through
 - longer timeouts for cases where deployed devices have been identified have issues meeting the specification requirements
 - more retries for some P2P frames
 - handle race conditions in GO Negotiation start by both devices
 - ignore unexpected GO Negotiation Response frame
- * added support for libnl 3.2 and newer
- * added P2P persistent group info to P2P_PEER data
- * maintain a list of P2P Clients

for persistent group on GO

- * AP: increased initial group key handshake retransmit timeout to 500 ms
- * added optional dev_id parameter for p2p_find
- * added P2P-FIND-STOPPED ctrl_iface event
- * fixed issues in WPA/RSN element validation when roaming with ap_scan=1

- and driver-based BSS selection
- * do not expire P2P peer entries while connected with the peer in a group
- * fixed WSC element inclusion in cases where P2P is disabled
- * AP: added a WPS workaround for mixed mode AP Settings with Windows 7
- * EAP-SIM: fixed AT_COUNTER_TOO_SMALL use
- * EAP-SIM/AKA: append realm to pseudonym identity
- * EAP-SIM/AKA: store pseudonym identity in network configuration to allow it to persist over multiple EAP sessions and wpa_supplicant restarts
- * EAP-AKA: updated to RFC 5448 (username prefixes changed); note: this breaks interoperability with older versions
- * added support for WFA Hotspot 2.0
 - GAS/ANQP to fetch network information
 - credential configuration and automatic
- network selections based on
 - credential match with ANQP information
- * limited PMKSA cache entries to be used only with the network context that was used to create them
- * improved PMKSA cache expiration to avoid unnecessary disconnections
- * adjusted bgscan_simple fast-scan backoff to avoid too frequent background scans
- * removed ctrl_iface event on P2P PD Response in join-group case
- * added option to fetch BSS table entry based on P2P Device Address ("BSS p2p_dev_addr=<P2P Device Address>")
- * added BSS entry age to ctrl_iface BSS command output
- * added optional MASK=0xH option for ctrl_iface BSS command to select which fields are included in the response
- * added optional RANGE=ALL|N1-N2 option for ctrl_iface BSS command to fetch information about several BSSes in one call
- * simplified licensing terms by selecting the BSD license as the only alternative
- * added "P2P_SET disallow_freq <freq list>" ctrl_iface command to disable channels from P2P use
- *
- added p2p_pref_chan configuration parameter to allow preferred P2P channels to be specified
- * added support for advertising immediate availability of a WPS credential for P2P use cases
- * optimized scan operations for P2P use cases (use single channel scan for a specific SSID when possible)
- * EAP-TTLS: fixed peer challenge generation for MSCHAPv2
- * SME: do not use reassociation after explicit disconnection request (local or a notification from an AP)
- * added support for sending debug info to Linux tracing (-T on command line)
- * added support for using Deauthentication reason code 3 as an indication of P2P group termination

- * added wps_vendor_ext_m1 configuration parameter to allow vendor specific attributes to be added to WPS M1
- * started using separate TLS library context for tunneled TLS (EAP-PEAP/TLS, EAP-TTLS/TLS, EAP-FAST/TLS) to support different CA certificate configuration between Phase 1 and Phase 2
- * added optional "auto" parameter for p2p_connect to request automatic GO Negotiation vs. join-a-group selection
- * added disabled_scan_offload parameter to disable automatic scan offloading (sched_scan)
- * added optional persistent=<network id> parameter for p2p_connect to allow forcing of a specific SSID/passphrase for GO Negotiation
- * added support for OBSS scan requests and 20/40 BSS coexistence reports
- * reject PD Request for unknown group
- * removed scripts and notes related to Windows binary releases (which have not been used starting from 1.x)
- * added initial support for WNM operations
 - Keep-alive based on BSS max idle period
 - WNM-Sleep Mode
 - minimal BSS Transition Management processing
- * added autoscan module to control scanning behavior while not connected
 - autoscan_periodic and autoscan_exponential modules
- * added new WPS NFC ctrl_iface mechanism
 - added initial support NFC connection handover
 - removed obsoleted WPS_OOB command (including support for deprecated UFD config_method)
- *
- added optional framework for external password storage ("ext:<name>")
- * wpa_cli: added optional support for controlling wpa_supplicant remotely over UDP (CONFIG_CTRL_IFACE=udp-remote) for testing purposes
- * wpa_cli: extended tab completion to more commands
- * changed SSID output to use printf-escaped strings instead of masking of non-ASCII characters
 - SSID can now be configured in the same format: ssid=P"abc\x00test"
- * removed default ACM=1 from AC_VO and AC_VI
- * added optional "ht40" argument for P2P ctrl_iface commands to allow 40 MHz channels to be requested on the 5 GHz band
- * added optional parameters for p2p_invite command to specify channel when reinvoking a persistent group as the GO
- * improved FIPS mode builds with OpenSSL
 - "make fips" with CONFIG_FIPS=y to build wpa_supplicant with the OpenSSL FIPS object module
 - replace low level OpenSSL AES API calls to use EVP
 - use OpenSSL keying material exporter when possible
 - do
- not export TLS keys in FIPS mode
 - remove MD5 from CONFIG_FIPS=y builds
 - use OpenSSL function for PKBDF2 passphrase-to-PSK

- use OpenSSL HMAC implementation
- mix RAND_bytes() output into random_get_bytes() to force OpenSSL DRBG to be used in FIPS mode
- use OpenSSL CMAC implementation
- * added mechanism to disable TLS Session Ticket extension
 - a workaround for servers that do not support TLS extensions that was enabled by default in recent OpenSSL versions
 - tls_disable_session_ticket=1
 - automatically disable TLS Session Ticket extension by default when using EAP-TLS/PEAP/TTLS (i.e., only use it with EAP-FAST)
- * changed VENDOR-TEST EAP method to use proper private enterprise number (this will not interoperate with older versions)
- * disable network block temporarily on authentication failures
- * improved WPS AP selection during WPS PIN iteration
- * added support for configuring GCMP cipher for IEEE 802.11ad
- * added support for Wi-Fi Display extensions
 - WFD_SUBELEMENT_SET ctrl_iface command to configure WFD subelements
 - SET wifi_display <0/1> to disable/enable WFD support
 - WFD service discovery
 - an external program is needed to manage the audio/video streaming and codecs
- * optimized scan result use for network selection
 - use the internal BSS table instead of raw scan results
 - allow unnecessary scans to be skipped if fresh information is available (e.g., after GAS/ANQP round for Interworking)
- * added support for 256-bit AES with internal TLS implementation
- * allow peer to propose channel in P2P invitation process for a persistent group
- * added disallow_aps parameter to allow BSSIDs/SSIDs to be disallowed from network selection
- * re-enable the networks disabled during WPS operations
- * allow P2P functionality to be disabled per interface (p2p_disabled=1)
- * added secondary device types into P2P_PEER output
- * added an option to disable use of a separate P2P group interface (p2p_no_group_iface=1)
- * fixed P2P Bonjour SD to match entries with both compressed and not compressed domain name format and support multiple Bonjour PTR matches for the same key
- * use deauthentication instead of disassociation for all disconnection operations; this removes the now unused disassociate() wpa_driver_ops callback
- * optimized PSK generation on P2P GO by caching results to avoid multiple PBKDF2 operations
- * added okc=1 global configuration parameter to allow OKC to be enabled by default for all network blocks
- * added a workaround for WPS PBC session overlap detection to avoid

- interop issues with deployed station implementations that do not remove active PBC indication from Probe Request frames properly
- * added basic support for 60 GHz band
- * extend EAPOL frames processing workaround for roaming cases (postpone processing of unexpected EAPOL frame until association event to handle reordered events)

2012-05-10 - v1.0

- * bsd: Add support for setting HT values in IFM_MMASK.
- * Delay STA entry removal until Deauth/Disassoc TX status in AP mode. This allows the driver to use PS buffering of Deauthentication and Disassociation frames when the STA is in power save sleep. Only available with drivers that provide TX status events for Deauth/Disassoc frames (nl80211).
- * Drop oldest unknown BSS table entries first. This makes it less likely to hit connection issues in environments with huge number of visible APs.
- * Add systemd support.
- * Add support for setting the syslog facility from the config file at build time.
- * atheros: Add support for IEEE 802.11w configuration.
- * AP mode: Allow enable HT20 if driver supports it, by setting the config parameter ieee80211n.
- * Allow AP mode to disconnect STAs based on low ACK condition (when the data connection is not working properly, e.g., due to the STA going outside the range of the AP). Disabled by default, enable by config option disassoc_low_ack.
- *
- nl80211:
 - Support GTK rekey offload.
 - Support PMKSA candidate events. This adds support for RSN pre-authentication with nl80211 interface and drivers that handle roaming internally.
- * dbus:
 - Add a DBus signal for EAP SM requests, emitted on the Interface object.
 - Export max scan ssids supported by the driver as MaxScanSSID.
 - Add signal Certification for information about server certification.
 - Add BSSExpireAge and BSSExpireCount interface properties and support set/get, which allows for setting BSS cache expiration age and expiration scan count.
 - Add ConfigFile to AddInterface properties.
 - Add Interface.Country property and support to get/set the value.
 - Add DBus property CurrentAuthMode.
 - P2P DBus API added.
 - Emit property changed events (for property BSSs) when adding/removing BSSs.

- Treat " in SSIDs of Interface.Scan as a request for broadcast scan, instead of ignoring it.
 - Add DBus getter/setter
- for FastReauth.
- Raise PropertiesChanged on org.freedesktop.DBus.Properties.
- * wpa_cli:
- Send AP-STA-DISCONNECTED event when an AP disconnects a station due to inactivity.
 - Make second argument to set command optional. This can be used to indicate a zero length value.
 - Add signal_poll command.
 - Add bss_expire_age and bss_expire_count commands to set/get BSS cache expiration age and expiration scan count.
 - Add ability to set scan interval (the time in seconds wpa_s waits before requesting a new scan after failing to find a suitable network in scan results) using scan_interval command.
 - Add event CTRL-EVENT-ASSOC-REJECT for association rejected.
 - Add command get version, that returns wpa_supplicant version string.
 - Add command sta_autoconnect for disabling automatic reconnection on receiving disconnection event.
 - Setting bssid parameter to an empty string "" or any can now be used to clear the bssid_set
- flag in a network block, i.e., to remove bssid filtering.
- Add tdls_testing command to add a special testing feature for changing TDLS behavior. Build param CONFIG_TDLS_TESTING must be enabled as well.
 - For interworking, add wpa_cli commands interworking_select, interworking_connect, anqp_get, fetch_anqp, and stop_fetch_anqp.
 - Many P2P commands were added. See README-P2P.
 - Many WPS/WPS ER commands - see WPS/WPS ER sections for details.
 - Allow set command to change global config parameters.
 - Add log_level command, which can be used to display the current debugging level and to change the log level during run time.
 - Add note command, which can be used to insert notes to the debug log.
 - Add internal line edit implementation. CONFIG_WPA_CLI_EDIT=y can now be used to build wpa_cli with internal implementation of line editing and history support. This can be used as a replacement for CONFIG_READLINE=y.
- * AP mode:
- Add max_num_sta config option, which can be used to limit the number of stations allowed to connect to the AP.
- * Add WPA_IGNORE_CONFIG_ERRORS build option to continue in case of bad config file.
- * wext: Increase scan timeout from 5 to 10 seconds.
- * Add blacklist command, allowing an external program to manage the BSS blacklist and display its current contents.

* WPS:

- Add `wpa_cli wps_pin get` command for generating random PINs. This can be used in a UI to generate a PIN without starting WPS (or P2P) operation.
- Set RF bands based on driver capabilities, instead of hardcoding them.
- Add mechanism for indicating non-standard WPS errors.
- Add `CONFIG_WPS_REG_DISABLE_OPEN=y` option to disable open networks by default.
- Add `wps_ap_pin cli` command for `wpa_supplicant` AP mode.
- Add `wps_check_pin cli` command for processing PIN from user input. UIs can use this command to process a PIN entered by a user and to validate the checksum

digit (if present).

- Cancel WPS operation on PBC session overlap detection.
- New `wps_cancel` command in `wpa_cli` will cancel a pending WPS operation.
- `wpa_cli` action: Add `WPS_EVENT_SUCCESS` and `WPS_EVENT_FAIL` handlers.
- Trigger WPS config update on Manufacturer, Model Name, Model Number, and Serial Number changes.
- Fragment size is now configurable for EAP-WSC peer. Use `wpa_cli set wps_fragment_size <val>`.
- Disable AP PIN after 10 consecutive failures. Slow down attacks on failures up to 10.
- Allow AP to start in Enrollee mode without AP PIN for probing, to be compatible with Windows 7.
- Add Config Error into WPS-FAIL events to provide more info to the user on how to resolve the issue.
- Label and Display config methods are not allowed to be enabled at the same time, since it is unclear which PIN to use if both methods are advertised.
- When controlling multiple interfaces:
 - apply WPS commands to all interfaces

configured to use WPS

- apply WPS config changes to all interfaces that use WPS
- when an attack is detected on any interface, disable AP PIN on all interfaces

* WPS ER:

- Add special AP Setup Locked mode to allow read only ER. `ap_setup_locked=2` can now be used to enable a special mode where WPS ER can learn the current AP settings, but cannot change them.
- Show `SetSelectedRegistrar` events as `ctrl_iface` events
- Add `wps_er_set_config` to enroll a network based on a local network configuration block instead of having to (re-)learn the current AP settings with `wps_er_learn`.
- Allow AP filtering based on IP address, add `ctrl_iface` event for learned AP settings, add `wps_er_config` command to configure an AP.

* WPS 2.0: Add support for WPS 2.0 (`CONFIG_WPS2`)

- Add build option CONFIG_WPS_EXTENSIBILITY_TESTING to enable tool for testing protocol extensibility.
- Add build option CONFIG_WPS_STRICT to allow disabling of WPS workarounds.
- Add support for AuthorizedMACs attribute.
- * TDLS:
 - Propagate TDLS related nl80211 capability flags from kernel and add them as driver capability flags. If the driver doesn't support capabilities, assume TDLS is supported internally. When TDLS is explicitly not supported, disable all user facing TDLS operations.
 - Allow TDLS to be disabled at runtime (mostly for testing). Use set tdls_disabled.
 - Honor AP TDLS settings that prohibit/allow TDLS.
 - Add a special testing feature for changing TDLS behavior. Use CONFIG_TDLS_TESTING build param to enable. Configure at runtime with tdls_testing cli command.
 - Add support for TDLS 802.11z.
- * wlandtest: Add a tool wlandtest for IEEE802.11 protocol testing. wlandtest can be used to capture frames from a monitor interface for realtime capturing or from pcap files for offline analysis.
- * Interworking: Support added for 802.11u. Enable in .config with CONFIG_INTERWORKING.
See wpa_supplicant.conf for config parameters for interworking. wpa_cli commands added to support this are interworking_select, interworking_connect, anqp_get, fetch_anqp, and stop_fetch_anqp.
- * Android: Add build and runtime support for Android wpa_supplicant.
- * bgscan learn: Add new bgscan that learns BSS information based on previous scans, and uses that information to dynamically generate the list of channels for background scans.
- * Add a new debug message level for excessive information. Use -ddd to enable.
- * TLS: Add support for tls_disable_time_checks=1 in client mode.
- * Internal TLS:
 - Add support for TLS v1.1 (RFC 4346). Enable with build parameter CONFIG_TLSV11.
 - Add domainComponent parser for X.509 names.
- * Linux: Add RFKill support by adding an interface state "disabled".
- * Reorder some IEs to get closer to IEEE 802.11 standard. Move WMM into end of Beacon, Probe Resp and (Re)Assoc Resp frames. Move HT IEs to be later in (Re)Assoc Resp.
- * Solaris: Add support for wired 802.1X client.
- * Wi-Fi Direct support. See README-P2P for more information.
- * Many bugfixes.

2010-04-18 - v0.7.2

- * nl80211: fixed number of issues with roaming
- * avoid unnecessary roaming if multiple APs with similar signal strength are present in scan results
- * add TLS client events and server probing to ease design of automatic detection of EAP parameters
- * add option for server certificate matching (SHA256 hash of the certificate) instead of trusted CA certificate configuration
- * bsd: Cleaned up driver wrapper and added various low-level configuration options
- * wpa_gui-qt4: do not show too frequent WPS AP available events as tray messages
- * TNC: fixed issues with fragmentation
- * EAP-TNC: add Flags field into fragment acknowledgement (needed to interoperate with other implementations; may potentially breaks compatibility with older wpa_supplicant/hostapd versions)
- * wpa_cli: added option for using a separate process to receive event messages to reduce latency in showing these
(CFLAGS += -DCONFIG_WPA_CLI_FORK=y in .config to enable this)
- * maximum BSS table size can now be configured (bss_max_count)
- * BSSes to be included in the BSS table can be filtered based on configured SSIDs to save memory (filter_ssids)
- * fix number of issues with IEEE 802.11r/FT; this version is not backwards compatible with old versions
- * nl80211: add support for IEEE 802.11r/FT protocol (both over-the-air and over-the-DS)
- * add freq_list network configuration parameter to allow the AP selection to filter out entries based on the operating channel
- * add signal strength change events for bgscan; this allows more dynamic changes to background scanning interval based on changes in the signal strength with the current AP; this improves roaming within ESS quite a bit, e.g., with bgscan="simple:30:-45:300" in the network configuration block to request background scans less frequently when signal strength remains good and to automatically trigger background scans whenever signal strength drops noticeably (this is currently only available with nl80211)
- * add BSSID and reason code (if available) to disconnect event messages
- * wpa_gui-qt4: more complete support for translating the GUI with linguist and add German translation
- * fix DH padding with internal crypto code (mainly, for WPS)
- * do not trigger initial scan automatically anymore if there are no enabled networks

2010-01-16 - v0.7.1

- * cleaned up driver wrapper API (struct wpa_driver_ops); the new API is not fully backwards compatible, so out-of-tree driver wrappers will need modifications

- * cleaned up various module interfaces
- * merge hostapd and wpa_supplicant developers' documentation into a single document
- * nl80211: use explicit deauthentication to clear cfg80211 state to avoid issues when roaming between APs
- * dbus: major design changes in the new D-Bus API (fi.w1.wpa_supplicant1)
- *
- nl80211: added support for IBSS networks
- * added internal debugging mechanism with backtrace support and memory allocation/freeing validation, etc. tests (CONFIG_WPA_TRACE=y)
- * added WPS ER unsubscription command to more cleanly unregister from receiving UPnP events when ER is terminated
- * cleaned up AP mode operations to avoid need for virtual driver_ops wrapper
- * added BSS table to maintain more complete scan result information over multiple scans (that may include only partial results)
- * wpa_gui-qt4: update Peers dialog information more dynamically while the dialog is kept open
- * fixed PKCS#12 use with OpenSSL 1.0.0
- * driver_wext: Added cfg80211-specific optimization to avoid some unnecessary scans and to speed up association

2009-11-21 - v0.7.0

- * increased wpa_cli ping interval to 5 seconds and made this configurable with a new command line options (-G<seconds>)
- * fixed scan buffer processing with WEXT to handle up to 65535 byte result buffer (previously, limited to 32768 bytes)
- * allow multiple driver wrappers to be specified on command line (e.g., -Dnl80211,wext); the first one that is able to initialize the interface will be used
- * added support for multiple SSIDs per scan request to optimize scan_ssid=1 operations in ap_scan=1 mode (i.e., search for hidden SSIDs); this requires driver support and can currently be used only with nl80211
- * added support for WPS USBA out-of-band mechanism with USB Flash Drives (UFD) (CONFIG_WPS_UFD=y)
- * driver_ndis: add PAE group address to the multicast address list to fix wired IEEE 802.1X authentication
- * fixed IEEE 802.11r key derivation function to match with the standard (note: this breaks interoperability with previous version) [Bug 303]
- * added better support for drivers that allow separate authentication and association commands (e.g., mac80211-based Linux drivers with nl80211; SME in wpa_supplicant); this allows over-the-air FT protocol to be used (IEEE 802.11r)
- * fixed SHA-256 based key derivation function to match with the

- standard when using CCMP (for IEEE 802.11r and IEEE 802.11w)
(note: this breaks interoperability with previous version) [Bug 307]
- * use shared driver wrapper files with hostapd
- * added AP mode functionality (CONFIG_AP=y) with mode=2 in the network block; this can be used for open and WPA2-Personal networks (optionally, with WPS); this links in parts of hostapd functionality into wpa_supplicant
- * wpa_gui-qt4: added new Peers dialog to show information about peers (other devices, including APs and stations, etc. in the neighborhood)
- * added support for WPS External Registrar functionality (configure APs and enroll new devices); can be used with wpa_gui-qt4 Peers dialog and wpa_cli commands wps_er_start, wps_er_stop, wps_er_pin, wps_er_pbc, wps_er_learn
(this can also be used with a new 'none' driver wrapper if no wireless device or IEEE 802.1X on wired is needed)
- * driver_nl80211: multiple updates to provide support for new Linux nl80211/mac80211 functionality
- * updated management frame protection to use IEEE Std 802.11w-2009
- * fixed number of small WPS issues and added workarounds to interoperate with common deployed broken implementations
- * added support for NFC out-of-band mechanism with WPS
- * driver_ndis: fixed wired IEEE 802.1X authentication with PAE group address frames
- * added preliminary support for IEEE 802.11r RIC processing
- * added support for specifying subset of enabled frequencies to scan (scan_freq option in the network configuration block); this can speed up scanning process considerably if it is known that only a small subset of channels is actually used in the network (this is currently supported only with -Dnl80211)
- * added a workaround for race condition between receiving the association event and the following EAPOL-Key
- * added background scan and roaming infrastructure to allow

network-specific optimizations to be used to improve roaming within an ESS (same SSID)

- * added new DBus interface (fi.w1.wpa_supplicant1)

2009-01-06 - v0.6.7

- * added support for Wi-Fi Protected Setup (WPS)
(wpa_supplicant can now be configured to act as a WPS Enrollee to enroll credentials for a network using PIN and PBC methods; in addition, wpa_supplicant can act as a wireless WPS Registrar to configure an AP); WPS support can be enabled by adding CONFIG_WPS=y into .config and setting the runtime configuration variables in wpa_supplicant.conf (see WPS section in the example configuration file); new wpa_cli commands wps_pin, wps_pbc, and wps_reg are used to manage WPS negotiation; see README-WPS for more details

- * added support for EAP-AKA' (draft-arkko-eap-aka-kdf)
- * added support for using driver_test over UDP socket
- * fixed PEAPv0 Cryptobinding interoperability issue with Windows Server 2008 NPS; optional cryptobinding is now enabled (again) by default
- * fixed PSK editing in wpa_gui
- * changed EAP-GPSK to use the IANA assigned EAP method type 51
- * added a Windows installer that includes WinPcap and all the needed DLLs; in addition, it set up the registry automatically so that user will only need start wpa_gui to get prompted to start the wpasvc servide and add a new interface if needed through wpa_gui dialog
- * updated management frame protection to use IEEE 802.11w/D7.0

2008-11-23 - v0.6.6

- * added Milenage SIM/USIM emulator for EAP-SIM/EAP-AKA (can be used to simulate test SIM/USIM card with a known private key; enable with CONFIG_SIM_SIMULATOR=y/CONFIG_USIM_SIMULATOR=y in .config and password="Ki:OPc"/password="Ki:OPc:SQN" in network configuration)
- * added a new network configuration option, wpa_ptk_rekey, that can be used to enforce frequent PTK rekeying, e.g., to mitigate some attacks against TKIP deficiencies
- * added an optional mitigation mechanism for certain attacks against TKIP by delaying Michael MIC error reports by a random amount of time between 0 and 60 seconds; this can be enabled with a build option CONFIG_DELAYED_MIC_ERROR_REPORT=y in .config
- * fixed EAP-AKA to use RES Length field in AT_RES as length in bits, not bytes
- * updated OpenSSL code for EAP-FAST to use an updated version of the session ticket overriding API that was included into the upstream OpenSSL 0.9.9 tree on 2008-11-15 (no additional OpenSSL patch is needed with that version anymore)
- * updated userspace MLME instructions to match with the current Linux mac80211 implementation; please also note that this can only be used with driver_nl80211.c (the old code from driver_wext.c was removed)
- * added support (Linux only) for RoboSwitch chipsets (often found in consumer grade routers); driver interface 'roboswitch'
- * fixed canceling of PMKSA caching when using drivers that generate RSN IE and refuse to drop PMKIDs that wpa_supplicant does not know about

2008-11-01

- v0.6.5

- * added support for SHA-256 as X.509 certificate digest when using the internal X.509/TLSv1 implementation
- * updated management frame protection to use IEEE 802.11w/D6.0
- * added support for using SHA256-based stronger key derivation for WPA2 (IEEE 802.11w)

- * fixed FT (IEEE 802.11r) authentication after a failed association to use correct FTIE
- * added support for configuring Phase 2 (inner/tunneled) authentication method with wpa_gui-qt4

2008-08-10 - v0.6.4

- * added support for EAP Sequences in EAP-FAST Phase 2
- * added support for using TNC with EAP-FAST
- * added driver_ps3 for the PS3 Linux wireless driver
- * added support for optional cryptobinding with PEAPv0
- * fixed the OpenSSL patches (0.9.8g and 0.9.9) for EAP-FAST to allow fallback to full handshake if server rejects PAC-Opaque
- * added fragmentation support for EAP-TNC
- * added support for parsing PKCS #8 formatted private keys into the internal TLS implementation (both PKCS #1 RSA key and PKCS #8 encapsulated RSA key can now be used)
- * added option of using faster, but larger, routines in the internal LibTomMath (for internal TLS implementation) to speed up DH and RSA calculations (CONFIG_INTERNAL_LIBTOMMATH_FAST=y)
- * fixed race condition between disassociation event and group key handshake to avoid getting stuck in incorrect state [Bug 261]
- * fixed opportunistic key caching (proactive_key_caching)

2008-02-22 - v0.6.3

- * removed 'nai' and 'eappsk' network configuration variables that were previously used for configuring user identity and key for EAP-PSK, EAP-PAX, EAP-SAKE, and EAP-GPSK. 'identity' field is now used as the replacement for 'nai' (if old configuration used a separate 'identity' value, that would now be configured as 'anonymous_identity'). 'password' field is now used as the replacement for 'eappsk' (it can also be set using hexstring to present random binary data)
- * removed '-w' command line parameter (wait for interface to be added, if needed); cleaner way of handling this functionality is to use an external mechanism (e.g., hotplug scripts) that start wpa_supplicant when an interface is added
- * updated FT support to use the latest draft, IEEE 802.11r/D9.0
- * added ctrl_iface monitor event (CTRL-EVENT-SCAN-RESULTS) for indicating when new scan results become available
- * added new ctrl_iface command, BSS, to allow scan results to be fetched without hitting the message size limits (this command can be used to iterate through the scan results one BSS at the time)
- * fixed EAP-SIM not to include AT_NONCE_MT and AT_SELECTED_VERSION attributes in EAP-SIM Start/Response when using fast reauthentication
- * fixed EAPOL not to end up in infinite loop when processing dynamic WEP keys with IEEE 802.1X

* fixed problems in getting NDIS events from WMI on Windows 2000

2008-01-01 - v0.6.2

- * added support for Makefile builds to include debug-log-to-a-file functionality (CONFIG_DEBUG_FILE=y and -f<path> on command line)
- * fixed EAP-SIM and EAP-AKA message parser to validate attribute lengths properly to avoid potential crash caused by invalid messages
- * added data structure for storing allocated buffers (struct wpabuf); this does not affect wpa_supplicant usage, but many of the APIs changed and various interfaces (e.g., EAP) is not compatible with old versions
- * added support for protecting EAP-AKA/Identity messages with AT_CHECKCODE (optional feature in RFC 4187)
- * added support for protected result indication with AT_RESULT_IND for EAP-SIM and EAP-AKA (phase1="result_ind=1")
- * added driver_wext workaround for race condition between scanning and association with drivers that take very long time to scan all channels (e.g., madwifi with dual-band cards); wpa_supplicant is now using a longer hardcoded timeout for the scan if the driver supports notifications for scan completion (SIOCGIWSCAN event); this helps, e.g., in cases where wpa_supplicant and madwifi driver ended up in loop where the driver did not even try to associate
- * stop EAPOL timer tick when no timers are in use in order to reduce power consumption (no need to wake up the process once per second) [Bug 237]
- * added support for privilege separation (run only minimal part of wpa_supplicant functionality as root and rest as unprivileged, non-root process); see 'Privilege separation' in README for details; this is disabled by default and can be enabled with CONFIG_PRIVSEP=y in .config
- * changed scan results data structure to include all information elements to make it easier to support new IEs; old get_scan_result() driver_ops is still supported for backwards compatibility (results are converted internally to the new format), but all drivers should start using the new get_scan_results2() to make them more likely to work with new features
- * Qt4 version of wpa_gui (wpa_gui-qt4 subdirectory) is now native Qt4 application, i.e., it does not require Qt3Support anymore; Windows binary of wpa_gui.exe is now from this directory and only requires QtCore4.dll and QtGui4.dll libraries
- * updated Windows binary build to use Qt 4.3.3 and made Qt DLLs available as a separate package to make wpa_gui installation easier: http://w1.fi/wpa_supplicant/qt4/wpa_gui-qt433-windows-dll.zip
- * added support for EAP-IKEv2 (draft-tschofenig-eap-ikev2-15.txt); only shared key/password authentication is supported in this version

2007-11-24 - v0.6.1

- * added support for configuring password as NtPasswordHash (16-byte MD4 hash of password) in hash:<32 hex digits> format
- * added support for fallback from abbreviated TLS handshake to full handshake when using EAP-FAST (e.g., due to an expired PAC-Opaque)
- * updated EAP Generalized Pre-Shared Key (EAP-GPSK) to use the latest draft (draft-ietf-emu-eap-gpsk-07.txt)
- * added support for drivers that take care of RSN 4-way handshake internally
(WPA_DRIVER_FLAGS_4WAY_HANDSHAKE in get_capa flags and WPA_ALG_PMK in set_key)
- * added an experimental port for Mac OS X (CONFIG_DRIVER_OSX=y in .config); this version supports only ap_scan=2 mode and allow the driver to take care of the 4-way handshake
- * fixed a buffer overflow in parsing TSF from scan results when using driver_wext.c with a driver that includes the TSF (e.g., iwl4965) [Bug 232]
- * updated FT support to use the latest draft, IEEE 802.11r/D8.0
- * fixed an integer overflow issue in the ASN.1 parser used by the (experimental) internal TLS implementation to avoid a potential buffer read overflow
- * fixed a race condition with -W option (wait for a control interface monitor before starting) that could have caused the first messages to be lost
- * added support for processing TNCC-TNCS-Messages to report recommendation (allow/none/isolate) when using TNC [Bug 243]

2007-05-28 - v0.6.0

- * added network configuration parameter 'frequency' for setting initial channel for IBSS (ad hoc) networks
- * added experimental IEEE 802.11r/D6.0 support
- * updated EAP-SAKE to RFC 4763 and the IANA-allocated EAP type 48
- * updated EAP-PSK to use the IANA-allocated EAP type 47
- * fixed EAP-PAX key derivation
- * fixed EAP-PSK bit ordering of the Flags field
- * fixed EAP-PEAP/TTLS/FAST to use the correct EAP identifier in tunnelled identity request (previously, the identifier from the outer method was used, not the tunnelled identifier which could be different)
- * added support for fragmentation of outer TLS packets during Phase 2 of EAP-PEAP/TTLS/FAST
- * fixed EAP-TTLS AVP parser processing for too short AVP lengths
- * added support for EAP-FAST authentication with inner methods that generate MSK (e.g., EAP-MSCHAPv2 that was previously only supported for PAC provisioning)

- * added support for authenticated EAP-FAST provisioning
- * added support for configuring maximum number of EAP-FAST PACs to store in a PAC list (fast_max_pac_list_len=<max> in phase1 string)
- * added support for storing EAP-FAST PACs in binary format (fast_pac_format=binary in phase1 string)
- * fixed dbus ctrl_iface to validate message interface before dispatching to avoid a possible segfault [Bug 190]
- * fixed PeerKey key derivation to use the correct PRF label
- * updated Windows binary build to link against OpenSSL 0.9.8d and added support for EAP-FAST
- * updated EAP Generalized Pre-Shared Key (EAP-GPSK) to use the latest draft (draft-ietf-emu-eap-gpsk-04.txt)
- * fixed EAP-AKA Notification processing to allow Notification to be processed after AKA Challenge response has been sent
- * updated to use IEEE 802.11w/D2.0 for management frame protection (still experimental)
- * fixed EAP-TTLS implementation not to crash on use of freed memory if TLS library initialization fails
- * added support for EAP-TNC (Trusted Network Connect) (this version implements the EAP-TNC method and EAP-TTLS changes needed to run two methods in sequence (IF-T) and the IF-IMC and IF-TNCCS interfaces from TNCC)

2006-11-24 - v0.5.6

- * added experimental, integrated TLSv1 client implementation with the needed X.509/ASN.1/RSA/bigint processing (this can be enabled by setting CONFIG_TLS=internal and CONFIG_INTERNAL_LIBTOMMATH=y in .config); this can be useful, e.g., if the target system does not have a suitable TLS library and a minimal code size is required (total size of this internal TLS/crypto code is bit under 50 kB on x86 and the crypto code is shared by rest of the supplicant so some of it was already required; TLSv1/X.509/ASN.1/RSA added about 25 kB)
- * removed STAKKey handshake since PeerKey handshake has replaced it in IEEE 802.11ma and there are no known deployments of STAKKey
- * updated EAP Generalized Pre-Shared Key (EAP-GPSK) to use the latest draft (draft-ietf-emu-eap-gpsk-01.txt)
- * added preliminary implementation of IEEE 802.11w/D1.0 (management frame protection)
(Note: this requires driver support to work properly.)
(Note2: IEEE 802.11w is an unapproved draft and subject to change.)
- * fixed Windows named pipes ctrl_iface to not stop listening for commands if client program opens a named pipe and closes it immediately without sending a command
- * fixed USIM PIN status determination for the case that PIN is not needed (this allows EAP-AKA to be used with USIM cards that do not

- use PIN)
- * added support for reading 3G USIM AID from EF_DIR to allow EAP-AKA to be used with cards that do not support file selection based on partial AID
- * added support for matching the subjectAltName of the authentication server certificate against multiple name components (e.g., altsubject_match="DNS:server.example.com;DNS:server2.example.com")
- * fixed EAP-SIM/AKA key derivation for re-authentication case (only affects IEEE 802.1X with dynamic WEP keys)
- * changed ctrl_iface network configuration 'get' operations to not return password/key material; if these fields are requested, "" will be returned if the password/key is set, but the value of the parameter is not exposed

2006-08-27 - v0.5.5

- * added support for building Windows version with UNICODE defined (wide-char functions)
- * driver_ndis: fixed static WEP configuration to avoid race condition issues with some NDIS drivers between association and setting WEP keys
- * driver_ndis: added validation for IELength value in scan results to avoid crashes when using buggy NDIS drivers [Bug 165]
- * fixed Release|Win32 target in the Visual Studio project files (previously, only Debug|Win32 target was set properly)
- * changed control interface API call wpa_ctrl_pending() to allow it to return -1 on error (e.g., connection lost); control interface clients will need to make sure that they verify that the value is indeed >0 when determining whether there are pending messages
- * added an alternative control interface backend for Windows targets:

Named Pipe (CONFIG_CTRL_IFACE=named_pipe); this is now the default control interface mechanism for Windows builds (previously, UDP to localhost was used)

- * changed ctrl_interface configuration for UNIX domain sockets:
 - deprecated ctrl_interface_group variable (it may be removed in future versions)
 - allow both directory and group be configured with ctrl_interface in following format: DIR=/var/run/wpa_supplicant GROUP=wheel
 - ctrl_interface=/var/run/wpa_supplicant is still supported for the case when group is not changed
- * added support for controlling more than one interface per process in Windows version
- * added a workaround for a case where the AP is using unknown address (e.g., MAC address of the wired interface) as the source address for EAPOL-Key frames; previously, that source address was used as the destination for EAPOL-Key frames and in key derivation; now, BSSID is used even if the source address does not match with it

- (this resolves an interoperability issue with Thomson SpeedTouch 580)
- * added a workaround for UDP-based control interface (which was used in Windows builds before this release) to prevent packets with forged addresses from being accepted as local control requests
 - * removed `ndis_events.cpp` and possibility of using external `ndis_events.exe`; C version (`ndis_events.c`) is fully functional and there is no desire to maintain two separate versions of this implementation
 - * `ndis_events`: Changed NDIS event notification design to use WMI to learn the adapter description through `Win32_PnPEntity` class; this should fix some cases where the adapter name was not recognized correctly (e.g., with some USB WLAN adapters, e.g., Ralink RT2500 USB) [Bug 113]
 - * fixed selection of the first network in `ap_scan=2` mode; previously, `wpa_supplicant` could get stuck in SCANNING state when only the first network for enabled (e.g., after `'wpa_cli select_network 0'`)
 - * `winsvc`: added support for configuring `ctrl_interface` parameters in registry (`ctrl_interface` string value in `HKLM\SOFTWARE\wpa_supplicant\interfaces\0000` key); this new value is required to enable control interface (previously, this was hardcoded to be enabled)
 - * allow `wpa_gui` subdirectory to be built with both Qt3 and Qt4
 - * converted `wpa_gui-qt4` subdirectory to use Qt4 specific project format

2006-06-20 - v0.5.4

- * fixed build with `CONFIG_STAKEY=y` [Bug 143]
- * added support for doing MLME (IEEE 802.11 management frame processing) in `wpa_supplicant` when using Devicescape IEEE 802.11 stack (wireless-dev.git tree)
- * added a new network block configuration option, `fragment_size`, to configure the maximum EAP fragment size
- * `driver_ndis`: Disable WZC automatically for the selected interface to avoid conflicts with two programs trying to control the radio; WZC will be re-enabled (if it was enabled originally) when `wpa_supplicant` is terminated
- * added an experimental TLSv1 client implementation (`CONFIG_TLS=internal`) that can be used instead of an external TLS library, e.g., to reduce total size requirement on systems that do not include any TLS library by default (this is not yet complete; basic functionality is there, but certificate validation is not yet included)
- * added PeerKey handshake implementation for IEEE 802.11e direct link setup (DLS) to replace STAKEy handshake
- * fixed WPA PSK update through `ctrl_iface` for the case where the old PSK was derived from an ASCII passphrase and the new PSK is set as

a raw PSK (hex string)

- * added new configuration option for identifying which network block was used (id_str in wpa_supplicant.conf; included on WPA_EVENT_CONNECT monitor event and as WPA_ID_STR environmental variable in wpa_cli action scripts; in addition WPA_ID variable is set to the current unique identifier that wpa_supplicant assigned automatically for the network and that can be used with GET_NETWORK/SET_NETWORK ctrl_iface commands)
- * wpa_cli action script is now called only when the connect/disconnect status changes or when associating with a different network
- * fixed configuration parser not to remove CCMP from group cipher list if WPA-None (adhoc) is used (pairwise=NONE in that case)
- * fixed integrated NDIS events processing not to hang the process due to a missed change in eloop_win.c API in v0.5.3 [Bug 155]
- * added support for EAP Generalized Pre-Shared Key (EAP-GPSK, draft-clancy-emu-eap-shared-secret-00.txt)
- * added Microsoft Visual Studio 2005 solution and project files for build wpa_supplicant for Windows (see vs2005 subdirectory)
- * eloop_win: fixed unregistration of Windows events
- * l2_packet_winpcap: fixed a deadlock in deinitializing l2_packet at the end of RSN pre-authentication and added unregistration of a Windows event to avoid getting eloop_win stuck with an invalid handle
- * driver_ndis: added support for selecting AP based on BSSID
- *

added new environmental variable for wpa_cli action scripts:
WPA_CTRL_DIR is the current control interface directory

- * driver_ndis: added support for using NDISUIO instead of WinPcap for OID set/query operations (CONFIG_USE_NDISUIO=y in .config); with new l2_packet_ndis (CONFIG_L2_PACKET=ndis), this can be used to build wpa_supplicant without requiring WinPcap; note that using NDISUIO requires that WZC is disabled (net stop wzcsvc) since NDISUIO allows only one application to open the device
- * changed NDIS driver naming to only include device GUID, e.g., {7EE3EFE5-C165-472F-986D-F6FBEDFE8C8D}, instead of including WinPcap specific \Device\NPF_ prefix before the GUID; the prefix is still allowed for backwards compatibility, but it is not required anymore when specifying the interface
- * driver_ndis: re-initialize driver interface is the adapter is removed and re-inserted [Bug 159]
- * driver_madwifi: fixed TKIP and CCMP sequence number configuration on big endian hosts [Bug 146]

2006-04-27 - v0.5.3

- * fixed EAP-GTC response to include correct user identity when run as phase 2 method of EAP-FAST (i.e., EAP-FAST did not work in v0.5.2)

- * driver_ndis: Fixed encryption mode configuration for unencrypted networks (some NDIS drivers ignored this, but others, e.g., Broadcom, refused to associate with open networks) [Bug 106]
- * driver_ndis: use BSSID OID polling to detect when IBSS network is formed even when ndis_events code is included since some NDIS drivers do not generate media connect events in IBSS mode
- * config_winreg: allow global ctrl_interface parameter to be configured in Windows registry
- * config_winreg: added support for saving configuration data into Windows registry
- * added support for controlling network device operational state (dormant/up) for Linux 2.6.17 to improve DHCP processing (see <http://www.flamewarmaster.de/software/dhcpclient/> for a DHCP client that can use this information)
- *
- driver_wext: added support for WE-21 change to SSID configuration
- * driver_wext: fixed privacy configuration for static WEP keys mode [Bug 140]
- * added an optional driver_ops callback for MLME-SETPROTECTION.request primitive
- * added support for EAP-SAKE (no EAP method number allocated yet, so this is using the same experimental type 255 as EAP-PSK)
- * added support for dynamically loading EAP methods (.so files) instead of requiring them to be statically linked in; this is disabled by default (see CONFIG_DYNAMIC_EAP_METHODS in defconfig for information on how to use this)

2006-03-19 - v0.5.2

- * do not try to use USIM APDUs when initializing PC/SC for SIM card access for a network that has not enabled EAP-AKA
- * fixed EAP phase 2 Nak for EAP-{PEAP,TTLS,FAST} (this was broken in v0.5.1 due to the new support for expanded EAP types)
- * added support for generating EAP Expanded Nak
- * try to fetch scan results once before requesting new scan when starting
- up in ap_scan=1 mode (this can speed up initial association a lot with, e.g., madwifi-ng driver)
- * added support for receiving EAPOL frames from a Linux bridge interface (-bbr0 on command line)
- * fixed EAPOL re-authentication for sessions that used PMKSA caching
- * changed EAP method registration to use a dynamic list of methods instead of a static list generated at build time
- * fixed PMKSA cache deinitialization not to use freed memory when removing PMKSA entries
- * fixed a memory leak in EAP-TTLS re-authentication
- * reject WPA/WPA2 message 3/4 if it does not include any valid WPA/RSN IE
- * driver_wext: added fallback to use SIOCSIWENCODE for setting auth_alg

if the driver does not support SIOCSIWAUTH

2006-01-29 - v0.5.1

- * driver_test: added better support for multiple APs and STAs by using a directory with sockets that include MAC address for each device in the name (driver_param=test_dir=/tmp/test)
- * added support for EAP expanded type (vendor specific EAP methods)
- * added AP_SCAN command into ctrl_iface so that ap_scan configuration option can be changed if needed
- * wpa_cli/wpa_gui: skip non-socket files in control directory when using UNIX domain sockets; this avoids selecting an incorrect interface (e.g., a PID file could be in this directory, even though use of this directory for something else than socket files is not recommended)
- * fixed TLS library deinitialization after RSN pre-authentication not to disable TLS library for normal authentication
- * driver_wext: Remove null-termination from SSID length if the driver used it; some Linux drivers do this and they were causing problems in wpa_supplicant not finding matching configuration block. This change would break a case where the SSID actually ends in '\0', but that is not likely to happen in real use.
- * fixed PMKSA cache processing not to trigger deauthentication if the current PMKSA cache entry is replaced with a valid new entry
- *
- fixed PC/SC initialization for ap_scan != 1 modes (this fixes EAP-SIM and EAP-AKA with real SIM/USIM card when using ap_scan=0 or ap_scan=2)

2005-12-18 - v0.5.0 (beginning of 0.5.x development releases)

- * added experimental STAKEy handshake implementation for IEEE 802.11e direct link setup (DLS); note: this is disabled by default in both build and runtime configuration (can be enabled with CONFIG_STAKEY=y and stakey=1)
- * fixed EAP-SIM and EAP-AKA pseudonym and fast re-authentication to decrypt AT_ENCR_DATA attributes correctly
- * fixed EAP-AKA to allow resynchronization within the same session
- * made code closer to ANSI C89 standard to make it easier to port to other C libraries and compilers
- * started moving operating system or C library specific functions into wrapper functions defined in os.h and implemented in os_*.c to make code more portable
- * wpa_supplicant can now be built with Microsoft Visual C++ (e.g., with the freely available Toolkit 2003 version or Visual C++ 2005 Express Edition and Platform SDK); see nmake.mak for an example makefile for nmake
- * added support for using Windows registry for command line parameters

(CONFIG_MAIN=main_winsvc) and configuration data (CONFIG_BACKEND=winreg); see win_example.reg for an example registry contents; this version can be run both as a Windows service and as a normal application; 'wpasvc.exe app' to start as applicant, 'wpasvc.exe reg <full path to wpasvc.exe>' to register a service, 'net start wpasvc' to start the service, 'wpasvc.exe unreg' to unregister a service

- * made it possible to link ndis_events.exe functionality into wpa_supplicant.exe by defining CONFIG_NDIS_EVENTS_INTEGRATED
- * added better support for multiple control interface backends (CONFIG_CTRL_IFACE option); currently, 'unix' and 'udp' are supported
- * fixed PC/SC code to use correct length for GSM AUTH command buffer and to not use pioRecvPci with SCardTransmit() calls; these were not causing visible problems with pcsc-lite, but Windows Wincard.dll refused the previously used parameters; this fixes EAP-SIM and EAP-AKA authentication using SIM/USIM card under Windows
- * added new event loop implementation for Windows using WaitForMultipleObject() instead of select() in order to allow waiting for non-socket objects; this can be selected with CONFIG_ELOOP=eloop_win in .config
- * added support for selecting l2_packet implementation in .config (CONFIG_L2_PACKET; following options are available now: linux, pcap, winpcap, freebsd, none)
- * added new l2_packet implementation for WinPcap (CONFIG_L2_PACKET=winpcap) that uses a separate receive thread to reduce latency in EAPOL receive processing from about 100 ms to about 3 ms
- * added support for EAP-FAST key derivation using other ciphers than RC4-128-SHA for authentication and AES128-SHA for provisioning
- * added support for configuring CA certificate as DER file and as a configuration blob
- * fixed private key configuration as configuration blob and added support for using PKCS#12 as a blob
- * tls_gnutls: added support for using PKCS#12 files; added support for session resumption
- * added support for loading trusted CA certificates from Windows certificate store: ca_cert="cert_store://<name>", where <name> is likely CA (Intermediate CA certificates) or ROOT (root certificates)
- * added C version of ndis_events.cpp and made it possible to build this with MinGW so that CONFIG_NDIS_EVENTS_INTEGRATED can be used more easily on cross-compilation builds
- * added wpasvc.exe into Windows binary release; this is an alternative version of wpa_supplicant.exe with configuration backend using Windows registry and with the entry point designed to run as a Windows service
- * integrated ndis_events.exe functionality into wpa_supplicant.exe and

wpasvc.exe and removed this additional tool from the Windows binary release since it is not needed anymore

- * load winscard.dll functions dynamically when building with MinGW since MinGW does not yet include winscard library

2005-11-20 - v0.4.7 (beginning of 0.4.x stable releases)

- * l2_packet_pcap: fixed wired IEEE 802.1X authentication with libpcap and WinPcap to receive frames sent to PAE group address
- * disable EAP state machine when IEEE 802.1X authentication is not used in order to get rid of bogus "EAP failed" messages
- * fixed OpenSSL error reporting to go through all pending errors to avoid confusing reports of old errors being reported at later point during handshake
- * fixed configuration file updating to not write empty variables (e.g., proto or key_mgmt) that the file parser would not accept
- * fixed ADD_NETWORK ctrl_iface command to use the same default values for variables as empty network definitions read from config file would get
- * fixed EAP state machine to not discard EAP-Failure messages in many cases (e.g., during TLS handshake)
- *
- fixed a infinite loop in private key reading if the configured file cannot be parsed successfully
- * driver_madwifi: added support for madwifi-ng
- * wpa_gui: do not display password/PSK field contents
- * wpa_gui: added CA certificate configuration
- * driver_ndis: fixed scan request in ap_scan=2 mode not to change SSID
- * driver_ndis: include Beacon IEs in AssocInfo in order to notice if the new AP is using different WPA/RSN IE
- * use longer timeout for IEEE 802.11 association to avoid problems with drivers that may take more than five second to associate

2005-10-27 - v0.4.6

- * allow fallback to WPA, if mixed WPA+WPA2 networks have mismatch in RSN IE, but WPA IE would match with wpa_supplicant configuration
- * added support for named configuration blobs in order to avoid having to use file system for external files (e.g., certificates); variables can be set to "blob://<blob name>" instead of file path to use a named blob; supported fields: pac_file, client_cert,

private_key

- * fixed RSN pre-authentication (it was broken in the clean up of WPA state machine interface in v0.4.5)
- * driver_madwifi: set IEEE80211_KEY_GROUP flag for group keys to make sure the driver configures broadcast decryption correctly
- * added ca_path (and ca_path2) configuration variables that can be used to configure OpenSSL CA path, e.g., /etc/ssl/certs, for using the

system-wide trusted CA list

- * added support for starting wpa_supplicant without a configuration file (-C argument must be used to set ctrl_interface parameter for this case; in addition, -p argument can be used to provide driver_param; these new arguments can also be used with a configuration to override the values from the configuration)
- * added global control interface that can be optionally used for adding and removing network interfaces dynamically (-g command line argument for both wpa_supplicant and wpa_cli) without having to restart wpa_supplicant process
- *

wpa_gui:

- try to save configuration whenever something is modified
- added WEP key configuration
- added possibility to edit the current network configuration
- * driver_ndis: fixed driver polling not to increase frequency on each received EAPOL frame due to incorrectly cancelled timeout
- * added simple configuration file examples (in examples subdirectory)
- * fixed driver_wext.c to filter wireless events based on ifindex to avoid interfaces receiving events from other interfaces
- * delay sending initial EAPOL-Start couple of seconds to speed up authentication for the most common case of Authenticator starting EAP authentication immediately after association

2005-09-25 - v0.4.5

- * added a workaround for clearing keys with ndiswrapper to allow roaming from WPA enabled AP to plaintext one
- * added docbook documentation (doc/docbook) that can be used to generate, e.g., man pages
- * l2_packet_linux: use socket type SOCK_DGRAM instead of SOCK_RAW for PF_PACKET

in order to prepare for network devices that do not use Ethernet headers (e.g., network stack that includes IEEE 802.11 header in the frames)

- * use receipt of EAPOL-Key frame as a lower layer success indication for EAP state machine to allow recovery from dropped EAP-Success frame
- * cleaned up internal EAPOL frame processing by not including link layer (Ethernet) header during WPA and EAPOL/EAP processing; this header is added only when transmitted the frame; this makes it easier to use wpa_supplicant on link layers that use different header than Ethernet
- * updated EAP-PSK to use draft 9 by default since this can now be tested with hostapd; removed support for draft 3, including server_nai configuration option from network blocks
- * driver_wired: add PAE address to the multicast address list in order to be able to receive EAPOL frames with drivers that do not include these multicast addresses by default

- * driver_wext: add support for WE-19
- *
- added support for multiple configuration backends (CONFIG_BACKEND option); currently, only 'file' is supported (i.e., the format used in wpa_supplicant.conf)
- * added support for updating configuration ('wpa_cli save_config'); this is disabled by default and can be enabled with global update_config=1 variable in wpa_supplicant.conf; this allows wpa_cli and wpa_gui to store the configuration changes in a permanent store
- * added GET_NETWORK ctrl_iface command (e.g., 'wpa_cli get_network 0 ssid')

2005-08-21 - v0.4.4

- * replaced OpenSSL patch for EAP-FAST support (openssl-tls-extensions.patch) with a more generic and correct patch (the new patch is not compatible with the previous one, so the OpenSSL library will need to be patched with the new patch in order to be able to build wpa_supplicant with EAP-FAST support)
- * added support for using Windows certificate store (through CryptoAPI) for client certificate and private key operations (EAP-TLS) (see wpa_supplicant.conf for more information on how to configure this with private_key)
- * ported wpa_gui to Windows
- * added Qt4 version of wpa_gui (wpa_gui-qt4 directory); this can be built with the open source version of the Qt4 for Windows
- * allow non-WPA modes (e.g., IEEE 802.1X with dynamic WEP) to be used with drivers that do not support WPA
- * ndis_events: fixed Windows 2000 support
- * added support for enabling/disabling networks from the list of all configured networks ('wpa_cli enable_network <network id>' and 'wpa_cli disable_network <network id>')
- * added support for adding and removing network from the current configuration ('wpa_cli add_network' and 'wpa_cli remove_network <network id>'); added networks are disabled by default and they can be enabled with enable_network command once the configuration is done for the new network; note: configuration file is not yet updated, so these new networks are lost when wpa_supplicant is restarted
- * added support for setting network configuration parameters through the control interface, for example:
wpa_cli set_network 0 ssid "\"my network\""
- * fixed parsing of strings that include both " and # within double quoted area (e.g., "start"#end")
- * added EAP workaround for PEAP session resumption: allow outer, i.e., not tunneled, EAP-Success to terminate session since; this can be disabled with eap_workaround=0 (this was allowed for PEAPv1 before, but now it is also allowed for

PEAPv0 since at least one RADIUS authentication server seems to be doing this for PEAPv0, too)

- * wpa_gui: added preliminary support for adding new networks to the wpa_supplicant configuration (double click on the scan results to open network configuration)

2005-06-26 - v0.4.3

- * removed interface for external EAPOL/EAP supplicant (e.g., Xsupplicant), (CONFIG_XSUPPLICANT_IFACE) since it is not required anymore and is unlikely to be used by anyone
 - * driver_ndis: fixed WinPcap
- 3.0 support
- * fixed build with CONFIG_DNET_PCAP=y on Linux
 - * l2_packet: moved different implementations into separate files (l2_packet_*.c)

2005-06-12 - v0.4.2

- * driver_ipw: updated driver structures to match with ipw2200-1.0.4 (note: ipw2100-1.1.0 is likely to require an update to work with this)
- * added support for using ap_scan=2 mode with multiple network blocks; wpa_supplicant will go through the networks one by one until the driver reports a successful association; this uses the same order for networks as scan_ssid=1 scans, i.e., the priority field is ignored and the network block order in the file is used instead
- * fixed a potential issue in RSN pre-authentication ending up using freed memory if pre-authentication times out
- * added support for matching alternative subject name extensions of the authentication server certificate; new configuration variables altsubject_match and altsubject_match2
- * driver_ndis: added support for IEEE 802.1X authentication with wired NDIS drivers
- * added support for querying private key password (EAP-TLS) through the control interface (wpa_cli/wpa_gui) if one is not included in the configuration file
- * driver_broadcom: fixed couple of memory leaks in scan result processing
- * EAP-PAX is now registered as EAP type 46
- * fixed EAP-PAX MAC calculation
- * fixed EAP-PAX CK and ICK key derivation
- * added support for using password with EAP-PAX (as an alternative to entering key with eappsk); SHA-1 hash of the password will be used as the key in this case
- * added support for arbitrary driver interface parameters through the configuration file with a new driver_param field; this adds a new driver_ops function set_param()
- * added possibility to override l2_packet module with driver interface

API (new send_eapol handler); this can be used to implement driver specific TX/RX functions for EAPOL frames

- * fixed ctrl_interface_group processing for the case where gid is

entered as a number, not group name

- * driver_test: added support for testing hostapd with wpa_supplicant by using test driver interface without any kernel drivers or network cards

2005-05-22 - v0.4.1

- * driver_madwifi: fixed WPA/WPA2 mode configuration to allow EAPOL packets to be encrypted; this was apparently broken by the changed ioctl order in v0.4.0

- * driver_madwifi: added preliminary support for compiling against 'BSD' branch of madwifi CVS tree

- * added support for EAP-MSCHAPv2 password retries within the same EAP authentication session

- * added support for password changes with EAP-MSCHAPv2 (used when the password has expired)

- * added support for reading additional certificates from PKCS#12 files and adding them to the certificate chain

- * fixed association with IEEE 802.1X (no WPA) when dynamic WEP keys were used

- * fixed a possible double free in EAP-TTLS fast-reauthentication when identity or password is entered through control interface

- *

display EAP Notification messages to user through control interface with "CTRL-EVENT-EAP-NOTIFICATION" prefix

- * added GUI version of wpa_cli, wpa_gui; this is not build automatically with 'make'; use 'make wpa_gui' to build (this requires Qt development tools)

- * added 'disconnect' command to control interface for setting wpa_supplicant in state where it will not associate before 'reassociate' command has been used

- * added support for selecting a network from the list of all configured networks ('wpa_cli select_network <network id>'; this disabled all other networks; to re-enable, 'wpa_cli select_network any')

- * added support for getting scan results through control interface

- * added EAP workaround for PEAPv1 session resumption: allow outer, i.e., not tunneled, EAP-Success to terminate session since; this can be disabled with eap_workaround=0

2005-04-25 - v0.4.0 (beginning of 0.4.x development releases)

- * added a new build time option, CONFIG_NO_STDOUT_DEBUG, that can be

used to reduce the size of the wpa_supplicant considerably if debugging code is not needed

- * fixed EAPOL-Key validation to drop packets with invalid Key Data

Length; such frames could have crashed wpa_supplicant due to buffer overflow

- * added support for wired authentication (IEEE 802.1X on wired Ethernet); driver interface 'wired'
- * obsoleted set_wpa() handler in the driver interface API (it can be replaced by moving enable/disable functionality into init()/deinit()) (calls to set_wpa() are still present for backwards compatibility, but they may be removed in the future)
- * driver_madwifi: fixed association in plaintext mode
- * modified the EAP workaround that accepts EAP-Success with incorrect Identifier to be even less strict about verification in order to interoperate with some authentication servers
- * added support for sending TLS alerts
- * added support for 'any' SSID wildcard; if ssid is not configured or is set to an empty string, any SSID will be accepted for non-WPA AP
- * added support for asking PIN (for SIM) from frontends (e.g., wpa_cli); if a PIN is needed, but not included in the configuration file, a control interface request is sent and EAP processing is delayed until the PIN is available
- * added support for using external devices (e.g., a smartcard) for private key operations in EAP-TLS (CONFIG_SMARTCARD=y in .config); new wpa_supplicant.conf variables:
 - global: opensc_engine_path, pkcs11_engine_path, pkcs11_module_path
 - network: engine, engine_id, key_id
- * added experimental support for EAP-PAX
- * added monitor mode for wpa_cli (-a<path to a program to run>) that allows external commands (e.g., shell scripts) to be run based on wpa_supplicant events, e.g., when authentication has been completed and data connection is ready; other related wpa_cli arguments:
 - B (run in background), -P (write PID file); wpa_supplicant has a new command line argument (-W)that can be used to make it wait until a control interface command is received in order to avoid missing events
- * added support for opportunistic WPA2 PMKSA key caching (disabled by default, can be enabled with proactive_key_caching=1)
- * fixed RSN IE in 4-Way Handshake message 2/4 for the case where Authenticator rejects PMKSA caching attempt and the driver is not using assoc_info events
- * added -P<pid file> argument for wpa_supplicant to write the current process id into a file

2005-02-12 - v0.3.7 (beginning of 0.3.x stable releases)

- * added new phase1 option parameter, include_tls_length=1, to force wpa_supplicant to add TLS Message Length field to all TLS messages even if the packet is not fragmented; this may be needed with some authentication servers

- * fixed WPA/RSN IE verification in message 3 of 4-Way Handshake when using drivers that take care of AP selection (e.g., when using ap_scan=2)
- * fixed reprocessing of pending request after ctrl_iface requests for identity/password/otp
- * fixed ctrl_iface requests for identity/password/otp in Phase 2 of EAP-PEAP and EAP-TTLS
- * all drivers using driver_wext: set interface up and select Managed mode when starting wpa_supplicant; set interface down when exiting
- * renamed driver_ipw2100.c to driver_ipw.c since it now supports both ipw2100 and ipw2200; please note that this also changed the configuration variable in .config to CONFIG_DRIVER_IPW

2005-01-24 - v0.3.6

- * fixed a busy loop introduced in v0.3.5 for scan result processing when no matching AP is found

2005-01-23 - v0.3.5

- * added a workaround for an interoperability issue with a Cisco AP when using WPA2-PSK
- * fixed non-WPA IEEE 802.1X to use the same authentication timeout as WPA with IEEE 802.1X (i.e., timeout 10 -> 70 sec to allow retransmission of dropped frames)
- * fixed issues with 64-bit CPUs and SHA1 cleanup in previous version (e.g., segfault when processing EAPOL-Key frames)
- *
- fixed EAP workaround and fast reauthentication configuration for RSN pre-authentication; previously these were disabled and pre-authentication would fail if the used authentication server requires EAP workarounds
- * added support for blacklisting APs that fail or timeout authentication in ap_scan=1 mode so that all APs are tried in cases where the ones with strongest signal level are failing authentication
- * fixed CA certificate loading after a failed EAP-TLS/PEAP/TTLS authentication attempt
- * allow EAP-PEAP/TTLS fast reauthentication only if Phase 2 succeeded in the previous authentication (previously, only Phase 1 success was verified)

2005-01-09 - v0.3.4

- * added preliminary support for IBSS (ad-hoc) mode configuration (mode=1 in network block); this included a new key_mgmt mode WPA-NONE, i.e., TKIP or CCMP with a fixed key (based on psk) and no key management; see wpa_supplicant.conf for more details and an example on how to configure this (note: this is currently implemented only for driver_hostapd.c, but the changes should be trivial to add

in associate() handler for other drivers, too (assuming the driver supports WPA-None)

- * added preliminary port for native Windows (i.e., no cygwin) using mingw

2005-01-02 - v0.3.3

- * added optional support for GNU Readline and History Libraries for wpa_cli (CONFIG_READLINE)
- * cleaned up EAP state machine <-> method interface and number of small problems with error case processing not terminating on EAP-Failure but waiting for timeout
- * added couple of workarounds for interoperability issues with a Cisco AP when using WPA2
- * added support for EAP-FAST (draft-cam-winget-eap-fast-00.txt);
Note: This requires a patch for openssl to add support for TLS extensions and number of workarounds for operations without certificates. Proof of concept type of experimental patch is included in openssl-tls-extensions.patch.

2004-12-19 - v0.3.2

- * fixed private key loading for cases where passphrase is not set
- * fixed Windows/cygwin L2 packet handler freeing; previous version could cause a segfault when RSN pre-authentication was completed
- * added support for PMKSA caching with drivers that generate RSN IEs (e.g., NDIS); currently, this is only implemented in driver_ndis.c, but similar code can be easily added to driver_ndiswrapper.c once ndiswrapper gets full support for RSN PMKSA caching
- * improved recovery from PMKID mismatches by requesting full EAP authentication in case of failed PMKSA caching attempt
- * driver_ndis: added support for NDIS NdisMIncidentStatus() events (this requires that ndis_events is ran while wpa_supplicant is running)
- * driver_ndis: use ADD_WEP/REMOVE_WEP when configuring WEP keys
- * added support for driver interfaces to replace the interface name based on driver/OS specific mapping, e.g., in case of driver_ndis, this allows the beginning of the adapter description to be used as

the interface name

- * added support for CR+LF (Windows-style) line ends in configuration file
- * driver_ndis: enable radio before starting scanning, disable radio when exiting
- * modified association event handler to set portEnabled = FALSE before clearing port Valid in order to reset EAP state machine and avoid problems with new authentication getting ignored because of state machines ending up in AUTHENTICATED/SUCCESS state based on old information

- * added support for driver events to add PMKID candidates in order to allow drivers to give priority to most likely roaming candidates
- * driver_hostap: moved PrivacyInvoked configuration to associate() function so that this will not be set for plaintext connections
- * added KEY_MGMT_802_1X_NO_WPA as a new key_mgmt type so that driver interface can distinguish plaintext and IEEE 802.1X (no WPA) authentication
- * fixed static WEP key configuration to use broadcast/default type for all keys (previously, the default TX key was configured as pairwise/unicast key)
- * driver_ndis: added legacy WPA capability detection for non-WPA2 drivers
- * added support for setting static WEP keys for IEEE 802.1X without dynamic WEP keying (eapol_flags=0)

2004-12-12 - v0.3.1

- * added support for reading PKCS#12 (PFX) files (as a replacement for PEM/DER) to get certificate and private key (CONFIG_PKCS12)
- * fixed compilation with CONFIG_PCSC=y
- * added new ap_scan mode, ap_scan=2, for drivers that take care of association, but need to be configured with security policy and SSID, e.g., ndiswrapper and NDIS driver; this mode should allow such drivers to work with hidden SSIDs and optimized roaming; when ap_scan=2 is used, only the first network block in the configuration file is used and this configuration should have explicit security policy (i.e., only one option in the lists) for key_mgmt, pairwise, group, proto variables
- * added experimental port of wpa_supplicant for Windows

- driver_ndis.c driver interface (NDIS OIDs)
- currently, this requires cygwin and WinPcap
- small utility, win_if_list, can be used to get interface name
- * control interface can now be removed at build time; add CONFIG_CTRL_IFACE=y to .config to maintain old functionality
- * optional Xsupplicant interface can now be removed at build time; (CONFIG_XSUPPLICANT_IFACE=y in .config to bring it back)
- * added auth_alg to driver interface associate() parameters to make it easier for drivers to configure authentication algorithm as part of the association

2004-12-05 - v0.3.0 (beginning of 0.3.x development releases)

- * driver_broadcom: added new driver interface for Broadcom wl.o driver (a generic driver for Broadcom IEEE 802.11a/g cards)
- * wpa_cli: fixed parsing of -p <path> command line argument
- * PEAPv1: fixed tunneled EAP-Success reply handling to reply with TLS ACK, not tunneled EAP-Success (of which only the first byte was actually send due to a bug

in previous code); this seems to

interoperate with most RADIUS servers that implements PEAPv1

- * PEAPv1: added support for terminating PEAP authentication on tunneled EAP-Success message; this can be configured by adding `peap_outer_success=0` on phase1 parameters in `wpa_supplicant.conf` (some RADIUS servers require this whereas others require a tunneled reply)
- * PEAPv1: changed phase1 option `peaplabel` to use default to 0, i.e., to the old label for key derivation; previously, the default was 1, but it looks like most existing PEAPv1 implementations use the old label which is thus more suitable default option
- * added support for EAP-PSK (draft-bersani-eap-psk-03.txt)
- * fixed parsing of `wep_tx_keyidx`
- * added support for configuring list of allowed Phase 2 EAP types (for both EAP-PEAP and EAP-TTLS) instead of only one type
- * added support for configuring IEEE 802.11 authentication algorithm (`auth_alg`; mainly for using Shared Key authentication with static

WEP keys)

- * added support for EAP-AKA (with UMTS SIM)
- * fixed couple of errors in PCSC handling that could have caused random-looking errors for EAP-SIM
- * added support for EAP-SIM pseudonyms and fast re-authentication
- * added support for EAP-TLS/PEAP/TTLS fast re-authentication (TLS session resumption)
- * added support for EAP-SIM with two challenges (`phase1="sim_min_num_chal=3"` can be used to require three challenges)
- * added support for configuring DH/DSA parameters for an ephemeral DH key exchange (EAP-TLS/PEAP/TTLS) using new configuration parameters `dh_file` and `dh_file2` (phase 2); this adds support for using DSA keys and optional DH key exchange to achieve forward secrecy with RSA keys
- * added support for matching subject of the authentication server certificate with a substring when using EAP-TLS/PEAP/TTLS; new configuration variables `subject_match` and `subject_match2`
- * changed SSID configuration in `driver_wext.c` (used by many driver interfaces)

to use `ssid_len+1` as the length for SSID since some Linux drivers expect this

- * fixed couple of unaligned reads in scan result parsing to fix WPA connection on some platforms (e.g., ARM)
- * added driver interface for Intel `ipw2100` driver
- * added support for LEAP with WPA
- * added support for larger scan results report (old limit was 4 kB of data, i.e., about 35 or so APs) when using Linux wireless extensions v17 or newer
- * fixed a bug in PMKSA cache processing: skip sending of EAPOL-Start only if there is a PMKSA cache entry for the current AP
- * fixed error handling for case where reading of scan results fails:

- must schedule a new scan or wpa_supplicant will remain waiting forever
- * changed debug output to remove shared password/key material by default; all key information can be included with -K command line argument to match the previous behavior
- * added support for timestamping debug log messages (disabled by default, can be enabled with -t command line argument)
- * set pairwise/group cipher suite for non-WPA IEEE 802.1X to WEP-104 if keys are not configured to be used; this fixes IEEE 802.1X mode with drivers that use this information to configure whether Privacy bit can be in Beacon frames (e.g., ndiswrapper)
- * avoid clearing driver keys if no keys have been configured since last key clear request; this seems to improve reliability of group key handshake for ndiswrapper & NDIS driver which seems to be suffering of some kind of timing issue when the keys are cleared again after association
- * changed driver interface API:
 - WPA_SUPPLICANT_DRIVER_VERSION define can be used to determine which version is being used (now, this is set to 2; previously, it was not defined)
 - pass pointer to private data structure to all calls
 - the new API is not backwards compatible; all in-tree driver interfaces has been converted to the new API
- * added support for controlling multiple interfaces (radios) per wpa_supplicant process; each interface needs to be listed on the command line (-c, -i, -D arguments) with -N as a separator (-cwpa1.conf -iwlan0 -Dhostap -N -cwpa2.conf -iath0 -Dmadwifi)
- * added a workaround for EAP servers that incorrectly use same Id for sequential EAP packets
- * changed libpcap/libdnet configuration to use .config variable, CONFIG_DNET_PCAP, instead of requiring Makefile modification
- * improved downgrade attack detection in IE verification of msg 3/4: verify both WPA and RSN IEs, if present, not only the selected one; reject the AP if an RSN IE is found in msg 3/4, but not in Beacon or Probe Response frame, and RSN is enabled in wpa_supplicant configuration
- * fixed WPA msg 3/4 processing to allow Key Data field contain other IEs than just one WPA IE
- * added support for FreeBSD and driver interface for the BSD net80211 layer (CONFIG_DRIVER_BSD=y in .config); please note that some of the required kernel mods have not yet been committed
- * made EAP workarounds configurable; enabled by default, can be disabled with network block option eap_workaround=0

2004-07-17 - v0.2.4 (beginning of 0.2.x stable releases)

- * resolved couple of interoperability issues with EAP-PEAPv1 and Phase 2 (inner EAP) fragment reassembly
- * driver_madwifi: fixed WEP key configuration for IEEE 802.1X when the AP is using non-zero key index for the unicast key and key index zero for the broadcast key
- * driver_hostap: fixed IEEE 802.1X WEP key updates and re-authentication by allowing unencrypted EAPOL frames when not using WPA
- * added a new driver interface, 'wext', which uses only standard, driver independent functionality in Linux wireless extensions; currently, this can be used only for non-WPA IEEE 802.1X mode, but eventually, this is to be extended to support full WPA/WPA2 once Linux wireless extensions get support for this
- * added support for mode in which the driver is responsible for AP scanning and selection; this is disabled by default and can be enabled with global ap_scan=0 variable in wpa_supplicant.conf; this mode can be used, e.g., with generic 'wext' driver interface to use wpa_supplicant as IEEE 802.1X Supplicant with any Linux driver supporting wireless extensions.
- * driver_madwifi: fixed WPA2 configuration and scan_ssid=1 (e.g., operation with an AP that does not include SSID in the Beacon frames)
- * added support for new EAP authentication methods: EAP-TTLS/EAP-OTP, EAP-PEAPv0/OTP, EAP-PEAPv1/OTP, EAP-OTP
- * added support for asking one-time-passwords from frontends (e.g., wpa_cli); this 'otp' command works otherwise like 'password' command, but the password is used only once and the frontend will be asked for a new password whenever a request from authenticator requires a password; this can be used with both EAP-OTP and EAP-GTC
- * changed wpa_cli to automatically re-establish connection so that it does not need to be re-started when wpa_supplicant is terminated and started again
- * improved user data (identity/password/otp) requests through frontends: process pending EAPOL packets after getting new information so that full authentication does not need to be restarted; in addition, send pending requests again whenever a new frontend is attached
- * changed control frontends to use a new directory for socket files to make it easier for wpa_cli to automatically select between interfaces and to provide access control for the control interface; wpa_supplicant.conf: ctrl_interface is now a path (/var/run/wpa_supplicant is the recommended path) and ctrl_interface_group can be used to select which group gets access to the control interface; wpa_cli: by default, try to connect to the first interface available in /var/run/wpa_supplicant; this path can be overridden with -p option and an interface can be selected with -i option (i.e., in most common

cases, wpa_cli
does not need to get any arguments)
* added support for LEAP
* added driver interface for Linux ndiswrapper
* added priority option for network blocks in the configuration file;
this allows networks to be grouped based on priority (the scan
results are searched for matches with network blocks in this order)

2004-06-20 - v0.2.3

- * sort scan results to improve AP selection
- * fixed control interface socket removal for some error cases
- * improved scan requesting and authentication timeout
- * small improvements/bug fixes for EAP-MSCHAPv2, EAP-PEAP, and
TLS processing
- * PEAP version can now be forced with phase1="peapver=<ver>"
(mostly for testing; by default, the highest version supported by
both the Supplicant and Authentication Server is selected
automatically)
- * added support for madwifi driver (Atheros ar521x)
- * added a workaround for cases where AP sets Install Tx/Rx bit for
WPA Group Key messages when pairwise keys are used (without this,
the Group Key
would be used for Tx and the AP would drop frames
from the station)
- * added GSM SIM/USIM interface for GSM authentication algorithm for
EAP-SIM; this requires psc-lite
- * added support for ATMEL AT76C5XXx driver
- * fixed IEEE 802.1X WEP key derivation in the case where Authenticator
does not include key data in the EAPOL-Key frame (i.e., part of
EAP keying material is used as data encryption key)
- * added support for using plaintext and static WEP networks
(key_mgmt=NONE)

2004-05-31 - v0.2.2

- * added support for new EAP authentication methods:
EAP-TTLS/EAP-MD5-Challenge
EAP-TTLS/EAP-GTC
EAP-TTLS/EAP-MSCHAPv2
EAP-TTLS/EAP-TLS
EAP-TTLS/MSCHAPv2
EAP-TTLS/MSCHAP
EAP-TTLS/PAP
EAP-TTLS/CHAP
EAP-PEAP/TLS
EAP-PEAP/GTC
EAP-PEAP/MD5-Challenge
EAP-GTC
EAP-SIM (not yet complete; needs GSM/SIM authentication interface)

- * added support for anonymous identity (to be used when identity is sent in plaintext; real identity will be used within TLS protected tunnel (e.g., with EAP-TTLS))
- * added event messages from wpa_supplicant to frontends, e.g., wpa_cli
- * added support for requesting identity and password information using control interface; in other words, the password for EAP-PEAP or EAP-TTLS does not need to be included in the configuration file since a frontend (e.g., wpa_cli) can ask it from the user
- * improved RSN pre-authentication to use a candidate list and process all candidates from each scan; not only one per scan
- * fixed RSN IE and WPA IE capabilities field parsing
- * ignore Tx bit in GTK IE when Pairwise keys are used
- * avoid making new scan requests during IEEE 802.1X negotiation
- * use openssl/libcrypto for MD5 and SHA-1 when compiling wpa_supplicant with TLS support (this replaces the included implementation with library code to save about 8 kB since the library code is needed anyway for TLS)
- * fixed WPA-PSK only mode when compiled without IEEE 802.1X support (i.e., without CONFIG_IEEE8021X_EAPOL=y in .config)

2004-05-06 - v0.2.1

- * added support for internal IEEE 802.1X (actually, IEEE 802.1aa/D6.1) Supplicant
 - EAPOL state machines for Supplicant [IEEE 802.1aa/D6.1]
 - EAP peer state machine [draft-ietf-eap-statemachine-02.pdf]
 - EAP-MD5 (cannot be used with WPA-RADIUS) [draft-ietf-eap-rfc2284bis-09.txt]
 - EAP-TLS [RFC 2716]
 - EAP-MSCHAPv2 (currently used only with EAP-PEAP)
 - EAP-PEAP/MSCHAPv2 [draft-josefsson-pppext-eap-tls-eap-07.txt] [draft-kamath-pppext-eap-mschapv2-00.txt]
 - (PEAP version 0, 1, and parts of 2; only 0 and 1 are enabled by default; tested with FreeRADIUS, Microsoft IAS, and Funk Odyssey)
 - new configuration file options: eap, identity, password, ca_cert, client_cert, privatekey, private_key_passwd
 - Xsupplicant is not required anymore, but it can be used by disabling the internal IEEE 802.1X Supplicant with -e command line option
 - this code is not included in the default

build; Makefile need to

- be edited for this (uncomment lines for selected functionality)
 - EAP-TLS and EAP-PEAP require openssl libraries
- * use module prefix in debug messages (WPA, EAP, EAP-TLS, ..)
- * added support for non-WPA IEEE 802.1X mode with dynamic WEP keys (i.e., complete IEEE 802.1X/EAP authentication and use IEEE 802.1X EAPOL-Key frames instead of WPA key handshakes)

- * added support for IEEE 802.11i/RSN (WPA2)
 - improved PTK Key Handshake
 - PMKSA caching, pre-authentication
- * fixed wpa_supplicant to ignore possible extra data after WPA EAPOL-Key packets (this fixes 'Invalid EAPOL-Key MIC when using TPTK' error from message 3 of 4-Way Handshake in case the AP includes extra data after the EAPOL-Key)
- * added interface for external programs (frontends) to control wpa_supplicant
 - CLI example (wpa_cli) with interactive mode and command line mode
 - replaced SIGUSR1 status/statistics with the new control interface
- * made some feature compile time configurable
 - .config file for make
 - driver interfaces (hostap, hermes, ..)
 - EAPOL/EAP functions

2004-02-15 - v0.2.0

- * Initial version of wpa_supplicant

Found in path(s):

- * /wpa-supPLICANT-89-zIP/wpa_supplicant/ChangeLog

No license file was found, but licenses were detected in source scan.

/*

- * wpa_supplicant D-Bus control interface - common functionality
- * Copyright (c) 2006, Dan Williams <dcbw@redhat.com> and Red Hat, Inc.
- * Copyright (c) 2009, Witold Sowa <witold.sowa@gmail.com>
- * Copyright (c) 2009, Jouni Malinen <j@w1.fi>
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- * See README for more details.
- */

Found in path(s):

- * /wpa-supPLICANT-89-zIP/wpa_supplicant/dbus/dbus_common.c

No license file was found, but licenses were detected in source scan.

/*

- * nfc_pw_token - Tool for building NFC password tokens for WPS
- * Copyright (c) 2012, Jouni Malinen <j@w1.fi>
- *
- * This software may be distributed under the terms of the BSD license.
- * See README for more details.
- */

Found in path(s):

* /wpa-suppllcant-89-zip/wpa_suppllcant/nfc_pw_token.c

No license file was found, but licenses were detected in source scan.

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AJ+x/wDAn/8AKj//2Q== "

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_gui-qt4/icons/laptop.svg

No license file was found, but licenses were detected in source scan.

/*

* WPA SupPLICant / UNIX domain socket -based control interface

* Copyright (c) 2004-2020, Jouni Malinen <j@w1.fi>

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/ctrl_iface_unix.c

* /wpa-supPLICant-89-zip/wpa_supPLICant/ctrl_iface.h

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Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/examples/p2p-nfc.py

* /wpa-supPLICant-89-zip/wpa_supPLICant/examples/wps-nfc.py

* /wpa-supPLICant-89-zip/wpa_supPLICant/examples/dpp-qrcode.py

* /wpa-supPLICant-89-zip/wpa_supPLICant/utls/log2pcap.py

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_supPLICant_conf.mk

* /wpa-supPLICant-89-zip/wpa_supPLICant/Android.mk

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_supPLICant_conf.sh

* /wpa-supPLICant-89-zip/wpa_supPLICant/examples/dpp-nfc.py

* /wpa-supPLICant-89-zip/wpa_supPLICant/eapol_test.py

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/*

* WPA SupPLICant - Driver event processing

* Copyright (c) 2003-2019, Jouni Malinen <j@w1.fi>

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/events.c

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```
/*
 * wpa_supplicant - MBO
 *
 * Copyright(c) 2015 Intel Deutschland GmbH
 * Contact Information:
 * Intel Linux Wireless <ilw@linux.intel.com>
 * Intel Corporation, 5200 N.E. Elam Young Parkway, Hillsboro, OR 97124-6497
 *
 * This software may be distributed under the terms of the BSD license.
 * See README for more details.
 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zIP/wpa_supplicant/mbo.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * WPA SupPLICant / dbus-based control interface (WPS)
 * Copyright (c) 2006, Dan Williams <dcbw@redhat.com> and Red Hat, Inc.
 * Copyright (c) 2009, Witold Sowa <witold.sowa@gmail.com>
 *
 * This software may be distributed under the terms of the BSD license.
 * See README for more details.
 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zIP/wpa_supplicant/dbus/dbus_new_handlers_wps.c
```

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```
/*
 * wpa_supplicant - P2P
 * Copyright (c) 2009-2010, Atheros Communications
 *
 * This software may be distributed under the terms of the BSD license.
 * See README for more details.
 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zIP/wpa_supplicant/p2p_supPLICant.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * WPA SupPLICant / Configuration backend: text file
 * Copyright (c) 2003-2019, Jouni Malinen <j@w1.fi>
 *
 * This software may be distributed under the terms of the BSD license.
```

* See README for more details.

/*

* This file implements a configuration backend for text files. All the
* configuration information is stored in a text file that uses a format
* described in the sample configuration file, wpa_supplicant.conf.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supplicant/config_file.c

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/*

* Wi-Fi Multimedia Admission Control (WMM-AC)

* Copyright(c) 2014, Intel Mobile Communication GmbH.

* Copyright(c) 2014, Intel Corporation. All rights reserved.

/*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supplicant/wmm_ac.h

* /wpa-supPLICant-89-zip/wpa_supplicant/wmm_ac.c

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/*

* win_if_list - Display network interfaces with description (for Windows)

* Copyright (c) 2004-2006, Jouni Malinen <j@w1.fi>

/*

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* See README for more details.

/*

* This small tool is for the Windows build to provide an easy way of fetching

* a list of available network interfaces.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supplicant/win_if_list.c

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/*

* wpa_supplicant - DPP

* Copyright (c) 2017, Qualcomm Atheros, Inc.

* Copyright (c) 2018-2020, The Linux Foundation

* Copyright (c) 2021-2022, Qualcomm Innovation Center, Inc.

/*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/dpp_supPLICant.c

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/*

* wpa_supPLICant module tests

* Copyright (c) 2014, Jouni Malinen <j@w1.fi>

*

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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpas_module_tests.c

No license file was found, but licenses were detected in source scan.

/*

* wpa_supPLICant - SME

* Copyright (c) 2009-2024, Jouni Malinen <j@w1.fi>

*

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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/sme.c

No license file was found, but licenses were detected in source scan.

/*

* WPA SupPLICant - Scanning

* Copyright (c) 2003-2014, Jouni Malinen <j@w1.fi>

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/scan.h

No license file was found, but licenses were detected in source scan.

/*

* wpa_supPLICant - PASN processing

*

* Copyright (C) 2019 Intel Corporation

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICANT-89-zip/wpa_supPLICANT/pasn_supPLICANT.c

No license file was found, but licenses were detected in source scan.

/*

* WPA SupPLICANT / dbus-based control interface for p2p

* Copyright (c) 2011-2012, Intel Corporation

*

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* See README for more details.

*/

Found in path(s):

* /wpa-supPLICANT-89-zip/wpa_supPLICANT/dbus/dbus_new_handlers_p2p.h

No license file was found, but licenses were detected in source scan.

/*

* WPA SupPLICANT / Configuration backend: Windows registry

* Copyright (c) 2003-2019, Jouni Malinen <j@w1.fi>

*

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* See README for more details.

*

* This file implements a configuration backend for Windows registry. All the

* configuration information is stored in the registry and the format for

* network configuration fields is same as described in the sample

* configuration file, wpa_supPLICANT.conf.

*

* Configuration data is in

* \a HKEY_LOCAL_MACHINE\SOFTWARE\%wpa_supPLICANT\configs

* key. Each configuration profile has its own key under this. In terms of text

* files, each profile would map to a separate text file with possibly multiple

* networks. Under each profile, there is a networks key that lists all

* networks as a subkey. Each network has set of values in the same way as

* network block in the configuration file.

In addition, blobs subkey has

* possible blobs as values.

*

* Example network configuration block:

* \verbatim

HKEY_LOCAL_MACHINE\SOFTWARE\wpa_supPLICANT\configs\test\networks\0000

ssid="example"

key_mgmt=WPA-PSK

\endverbatim

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/config_winreg.c

No license file was found, but licenses were detected in source scan.

/*

* libwpa_test - Test program for libwpa_client.* library linking

* Copyright (c) 2015, Jouni Malinen <j@w1.fi>

*

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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/libwpa_test.c

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/*

* WPA SupPLICant / Configuration backend: empty starting point

* Copyright (c) 2003-2005, Jouni Malinen <j@w1.fi>

*

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* See README for more details.

*

* This file implements stub example of a configuration backend. None of the

* functions are actually implemented so this can be used as a simple

* compilation test or a starting point for a new configuration backend.

*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/config_none.c

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/*

* wpa_gui - EventHistory class

* Copyright (c) 2005-2006, Jouni Malinen <j@w1.fi>

*

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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_gui-qt4/eventhistory.cpp

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_gui-qt4/eventhistory.h

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/*

* wpa_supPLICant - TWT

* Copyright (c) 2003-2016, Jouni Malinen <j@w1.fi>
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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/twt.c

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/*

* wpa_supPLICant - WNM
* Copyright (c) 2011-2013, Qualcomm Atheros, Inc.
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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/wnm_sta.c

No license file was found, but licenses were detected in source scan.

/*

* wpa_supPLICant - Radio Measurements
* Copyright (c) 2003-2016, Jouni Malinen <j@w1.fi>
*
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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/rrm.c

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/*

* binder interface for wpa_supPLICant daemon
* Copyright (c) 2004-2016, Jouni Malinen <j@w1.fi>
* Copyright (c) 2004-2016, Roshan Pius <rpius@google.com>
*
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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/binder/fi/w1/wpa_supPLICant/IIface.aidl

No license file was found, but licenses were detected in source scan.

/*

* WPA Supplicant - background scan and roaming module: learn
* Copyright (c) 2009-2010, Jouni Malinen <j@w1.fi>
*
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* See README for more details.
*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supplicant/bgscan_learn.c
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/*
* wpa_supplicant - Event notifications
* Copyright (c) 2009-2010, Jouni Malinen <j@w1.fi>
*
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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supplicant/notify.c
* /wpa-supPLICant-89-zip/wpa_supplicant/notify.h
No license file was found, but licenses were detected in source scan.

/*
* wpa_supplicant / WPS integration
* Copyright (c) 2008-2014, Jouni Malinen <j@w1.fi>
*
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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supplicant/wps_supplicant.c
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/*
* WPA Supplicant - background scan and roaming module: simple
* Copyright (c) 2009-2010, Jouni Malinen <j@w1.fi>
*
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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supplicant/bgscan_simple.c
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```
/*
 * IEEE 802.1X-2010 KaY Interface
 * Copyright (c) 2013-2014, Qualcomm Atheros, Inc.
 *
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 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zip/wpa_supPLICant/wpas_kay.h
* /wpa-supPLICant-89-zip/wpa_supPLICant/wpas_kay.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Interworking (IEEE 802.11u)
 * Copyright (c) 2011-2013, Qualcomm Atheros, Inc.
 * Copyright (c) 2011-2014, Jouni Malinen <j@w1.fi>
 *
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 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zip/wpa_supPLICant/interworking.c
```

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```
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 * IEEE 802.11v WNM related functions and structures
 * Copyright (c) 2011-2012, Qualcomm Atheros, Inc.
 *
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 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zip/wpa_supPLICant/wnm_sta.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * WPA SupPLICant / dbus-based control interface
 * Copyright (c) 2006, Dan Williams <dcbw@redhat.com> and Red Hat, Inc.
 * Copyright (c) 2009-2010, Witold Sowa <witold.sowa@gmail.com>
 *
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 * See README for more details.
 */
```

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/dbus/dbus_new_handlers.h

* /wpa-supPLICant-89-zip/wpa_supPLICant/dbus/dbus_new.h

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/*

* wpa_gui - AddInterface class

* Copyright (c) 2008, Jouni Malinen <j@w1.fi>

*

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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_gui-qt4/addinterface.h

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_gui-qt4/addinterface.cpp

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/*

* wpa_gui - SignalBar class

* Copyright (c) 2011, Kel Modderman <kel@otaku42.de>

*

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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_gui-qt4/signalbar.cpp

* /wpa-supPLICant-89-zip/wpa_supPLICant/wpa_gui-qt4/signalbar.h

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/*

* WPA SupPLICant - Basic mesh mode routines

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*

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*/

Found in path(s):

* /wpa-supPLICant-89-zip/wpa_supPLICant/mesh.h

* /wpa-supPLICant-89-zip/wpa_supPLICant/mesh.c

No license file was found, but licenses were detected in source scan.

/*

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*/

Found in path(s):

* /wpa-supPLICANT-89-ziP/wpa_supPLICANT/hs20_supPLICANT.c

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/*

* wpa_gui - WpaMsg class for storing event messages

* Copyright (c) 2005-2006, Jouni Malinen <j@w1.fi>

*

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*/

Found in path(s):

* /wpa-supPLICANT-89-ziP/wpa_supPLICANT/wpa_gui-qt4/wpamsg.h

No license file was found, but licenses were detected in source scan.

/*

* wpa_supPLICANT D-Bus control interface - internal definitions

* Copyright (c) 2006, Dan Williams <dcbw@redhat.com> and Red Hat, Inc.

* Copyright (c) 2009, Witold Sowa <witold.sowa@gmail.com>

* Copyright (c) 2009, Jouni Malinen <j@w1.fi>

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*/

Found in path(s):

* /wpa-supPLICANT-89-ziP/wpa_supPLICANT/dbus/dbus_common_i.h

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Include support for GNU Readline and History Libraries in wpa_cli.

When building a wpa_cli binary for distribution, please note that these

libraries are licensed under GPL and as such, BSD license may not apply for

the resulting binary.

#CONFIG_READLINE=y

Wired equivalent privacy (WEP)

WEP is an obsolete cryptographic data confidentiality algorithm that is not

considered secure. It should not be used for anything anymore. The

functionality needed to use WEP is available in the current wpa_supPLICANT

release under this optional build parameter. This functionality is subject to

be completely removed in a future release.

Found in path(s):

* /wpa-supPLICANT-89-ziP/wpa_supPLICANT/android.config

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```
/*
 * wpa_supplicant - SME
 * Copyright (c) 2009-2010, Jouni Malinen <j@w1.fi>
 *
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 * See README for more details.
 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zip/wpa_supplicant/sme.h
```

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```
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 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zip/wpa_supplicant/hs20_supplicant.h
```

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```
/*
 * wpa_supplicant - IBSS RSN
 * Copyright (c) 2009-2013, Jouni Malinen <j@w1.fi>
 *
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 * See README for more details.
 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zip/wpa_supplicant/ibss_rsn.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * WPA Supplicant - Glue code to setup EAPOL and RSN modules
 * Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi>
 *
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 * See README for more details.
 */
```

Found in path(s):

```
* /wpa-supPLICant-89-zip/wpa_supplicant/wpas_glue.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * wpa_gui - NetworkConfig class
 * Copyright (c) 2005-2006, Jouni Malinen <j@w1.fi>
 *
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 * See README for more details.
 */
```

Found in path(s):

```
*/wpa-supPLICant-89-zIP/wpa_supPLICant/wpa_gui-qt4/networkconfig.cpp
*/wpa-supPLICant-89-zIP/wpa_supPLICant/wpa_gui-qt4/networkconfig.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * wpa_gui - StringQuery class
 * Copyright (c) 2009, Atheros Communications
 *
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 * See README for more details.
 */
```

Found in path(s):

```
*/wpa-supPLICant-89-zIP/wpa_supPLICant/wpa_gui-qt4/stringquery.cpp
*/wpa-supPLICant-89-zIP/wpa_supPLICant/wpa_gui-qt4/stringquery.h
```

1.67 python-cjson 1.2.2

1.67.1 Available under license :

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1.68 redis 2.10.3

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1.69 pyzmq 14.7.0

1.69.1 Available under license :

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1.75 glibc 0.6.1

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```

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* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/block.c

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/*

* encode.c - string conversion routines (mostly for compatibility with

* udev/volume_id)

*

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* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libblkid-tiny/vfat.c
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* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/volume.h

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/overlay.c

*

/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/snapshot.h

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/mount_root.c

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/mount.c

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/find.c

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/jffs2reset.c

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/mtd.c

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/snapshot.c

*

/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libubi/libubi-tiny.h

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/ubi.c

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/volume.c

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/libfstools.h

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/snapshot.c

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/*

* blkidP.h - Internal interfaces for libblkid

*

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/*

* Low-level libblkid probing API

*

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* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libfstools/rootdisk.c
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Found in path(s):

* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libblkid-tiny/btrfs.c
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*
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* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libblkid-tiny/bitops.h
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* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/probe.c
* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/probe-libblkid.c
* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/probe.h
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```

Found in path(s):

```
* /fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067-tar-xz/fstools-2024-07-14-408c2cc48e6694446c89da7f8121b399063e1067/libblkid-tiny/hfs.c
```

1.78 procd 2023-06-25

1.78.1 Available under license :

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```
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```

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```
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/seccomp-syscalls-helpers.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/log.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/trace/preload.c
*
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/trace/trace.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/elf.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/preload.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/seccomp.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/preload.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
```

2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/elf.h

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* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/seccomp-oci.h

* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/cgroups.h

* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/uxc.c

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*

* reads unified cgroup config as proposed in

* <https://github.com/opencontainers/runtime-spec/pull/1040>

* attempt conversion from cgroup1 -> cgroup2

* <https://github.com/containers/crun/blob/0.14.1/crun.1.md#cgroup-v2>

*

* ToDo:

* - convert cgroup1 net_prio and net_cls to eBPF program

* - rdma (anyone?) intelrdt (anyone?)

*/

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* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/cgroups.c

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```

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```

* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/cgroups-bpf.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/netifd.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/hotplug-dispatch.c

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*
* somehow emulate devices.allow/devices.deny using eBPF
*
* OCI run-time spec defines the syntax for allowing/denying access
* to devices according to the definition of cgroup-v1 in the Kernel
* as described in Documentation/admin-guide/cgroup-v1.
*/

```

Found in path(s):

```

* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/cgroups-bpf.c

```

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```

/*
* runqueue-example.c

```

```

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2db836553e8fc318143b38dbc6e12b8625cf5c33/rcS.c

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2db836553e8fc318143b38dbc6e12b8625cf5c33/log.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/plugin/hotplug.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/rcS.h
*
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/initd/early.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/inittab.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-

```

```

2db836553e8fc318143b38dbc6e12b8625cf5c33/utls/askfirst.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/utls/utls.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/initd/preinit.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/initd/init.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/signal.c
*
/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/service/instance.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/watchdog.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/plugin/hotplug.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/service/service.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/watchdog.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/service/trigger.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/system.c
*
/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/service/instance.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/ubus.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/service/service.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/utls/utls.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/service/watch.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/plugin/coldplug.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/procd.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/initd/mkdev.c
*
/procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/procd.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/upgraded/upgraded.c
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/state.c

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```
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/fs.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/jail.h
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2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/capabilities.h
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2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/jail.c
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* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
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```
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/fs.c
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* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/initd/init.h
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/service/validate.c
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```

Found in path(s):

```
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/jail/netifd.c
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```
* /procd-2023-06-25-2db836553e8fc318143b38dbc6e12b8625cf5c33-tar-xz/procd-2023-06-25-
2db836553e8fc318143b38dbc6e12b8625cf5c33/container.h
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1.79 sqlite 3480000

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)

in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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The End

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