



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'PKCS12_gen_mac.3oss1' command

\$ man PKCS12_gen_mac.3oss1

PKCS12_GEN_MAC(3oss1) OpenSSL PKCS12_GEN_MAC(3oss1)

NAME

PKCS12_gen_mac, PKCS12_setup_mac, PKCS12_set_mac, PKCS12_verify_mac -
Functions to create and manipulate a PKCS#12 structure

SYNOPSIS

```
#include <openssl/pkcs12.h>

int PKCS12_gen_mac(PKCS12 *p12, const char *pass, int passlen,
                  unsigned char *mac, unsigned int *maclen);

int PKCS12_verify_mac(PKCS12 *p12, const char *pass, int passlen);

int PKCS12_set_mac(PKCS12 *p12, const char *pass, int passlen,
                  unsigned char *salt, int saltlen, int iter,
                  const EVP_MD *md_type);

int PKCS12_setup_mac(PKCS12 *p12, int iter, unsigned char *salt,
                    int saltlen, const EVP_MD *md_type);
```

DESCRIPTION

PKCS12_gen_mac() generates an HMAC over the entire PKCS#12 object using the supplied password along with a set of already configured parameters.

PKCS12_verify_mac() verifies the PKCS#12 object's HMAC using the supplied password.

PKCS12_setup_mac() sets the MAC part of the PKCS#12 structure with the supplied parameters.

PKCS12_set_mac() sets the MAC and MAC parameters into the PKCS#12 object.

pass is the passphrase to use in the HMAC. salt is the salt value to use, iter is the iteration count and md_type is the message digest function to use.

NOTES

If salt is NULL then a suitable salt will be generated and used.

If iter is 1 then an iteration count will be omitted from the PKCS#12 structure.

PKCS12_gen_mac(), PKCS12_verify_mac() and PKCS12_set_mac() make assumptions regarding the encoding of the given passphrase. See [passphrase-encoding\(7\)](#) for more information.

RETURN VALUES

All functions return 1 on success and 0 if an error occurred.

CONFORMING TO

IETF RFC 7292 (<<https://tools.ietf.org/html/rfc7292>>)

SEE ALSO

[d2i_PKCS12\(3\)](#), [PKCS12_create\(3\)](#), [passphrase-encoding\(7\)](#)

COPYRIGHT

Copyright 2021 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.

3.0.7 2023-07-13 PKCS12_GEN_MAC(3ossl)