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Rocky Enterprise Linux 9.2 Manual Pages on command 'PKCS12_SAFEABAG_create_cert.3oss1'

\$ man PKCS12_SAFEABAG_create_cert.3oss1

PKCS12_SAFEABAG_CREATE_CERT(3oss1) OpenSSL PKCS12_SAFEABAG_CREATE_CERT(3oss1)

NAME

PKCS12_SAFEABAG_create_cert, PKCS12_SAFEABAG_create_crl,
PKCS12_SAFEABAG_create_secret, PKCS12_SAFEABAG_create0_p8inf,
PKCS12_SAFEABAG_create0_pkcs8, PKCS12_SAFEABAG_create_pkcs8_encrypt,
PKCS12_SAFEABAG_create_pkcs8_encrypt_ex - Create PKCS#12 safeBag objects

SYNOPSIS

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

```
PKCS12_SAFEABAG *PKCS12_SAFEABAG_create_cert(X509 *x509);  
PKCS12_SAFEABAG *PKCS12_SAFEABAG_create_crl(X509_CRL *crl);  
PKCS12_SAFEABAG *PKCS12_SAFEABAG_create_secret(int type, int vtype,  
const unsigned char* value,  
int len);  
PKCS12_SAFEABAG *PKCS12_SAFEABAG_create0_p8inf(PKCS8_PRIV_KEY_INFO *p8);  
PKCS12_SAFEABAG *PKCS12_SAFEABAG_create0_pkcs8(X509_SIG *p8);
```

```

PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_pkcs8_encrypt(int pbe_nid,
            const char *pass,
            int passlen,
            unsigned char *salt,
            int saltlen, int iter,
            PKCS8_PRIV_KEY_INFO *p8inf);

PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_pkcs8_encrypt_ex(int pbe_nid,
            const char *pass,
            int passlen,
            unsigned char *salt,
            int saltlen, int iter,
            PKCS8_PRIV_KEY_INFO *p8inf,
            OSSL_LIB_CTX *ctx,
            const char *propq);

```

DESCRIPTION

PKCS12_SAFEBAG_create_cert() creates a new PKCS12_SAFEBAG of type NID_certBag containing the supplied certificate.

PKCS12_SAFEBAG_create_crl() creates a new PKCS12_SAFEBAG of type NID_crlBag containing the supplied crl.

PKCS12_SAFEBAG_create_secret() creates a new PKCS12_SAFEBAG of type corresponding to a PKCS#12 secretBag. The secretBag contents are tagged as type with an ASN1 value of type vtype constructed using the bytes in value of length len.

PKCS12_SAFEBAG_create0_p8inf() creates a new PKCS12_SAFEBAG of type NID_keyBag containing the supplied PKCS8 structure.

PKCS12_SAFEBAG_create0_pkcs8() creates a new PKCS12_SAFEBAG of type NID_pkcs8ShroudedKeyBag containing the supplied PKCS8 structure.

PKCS12_SAFEBAG_create_pkcs8_encrypt() creates a new PKCS12_SAFEBAG of type NID_pkcs8ShroudedKeyBag by encrypting the supplied PKCS8 p8inf.

If pbe_nid is 0, a default encryption algorithm is used. pass is the passphrase and iter is the iteration count. If iter is zero then a default value of 2048 is used. If salt is NULL then a salt is generated randomly.

PKCS12_SAFEBAG_create_pkcs8_encrypt_ex() is identical to PKCS12_SAFEBAG_create_pkcs8_encrypt() but allows for a library context ctx and property query propq to be used to select algorithm implementations.

NOTES

PKCS12_SAFEBAG_create_pkcs8_encrypt() makes assumptions regarding the encoding of the given pass phrase. See [passphrase-encoding\(7\)](#) for more information.

PKCS12_SAFEBAG_create_secret() was added in OpenSSL 3.0.

RETURN VALUES

All of these functions return a valid PKCS12_SAFEBAG structure or NULL if an error occurred.

CONFORMING TO

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

SEE ALSO

PKCS12_create(3), PKCS12_add_safe(3), PKCS12_add_safes(3)

HISTORY

PKCS12_SAFEBAG_create_pkcs8_encrypt_ex() was added in OpenSSL 3.0.

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