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$ man PKCS12_SAFEBAG_create_pkcs8_encrypt_ex.3ossl

PKCS12_SAFEBAG_CREATE_CERT(3ossl) OpenSSL PKCS12_SAFEBAG_CREATE_CERT(3ossl)

NAME

PKCS12_SAFEBAG_create_cert, PKCS12_SAFEBAG_create_crl,

PKCS12_SAFEBAG_create_secret, PKCS12_SAFEBAG_create0_p8inf,

PKCS12_SAFEBAG_create0_pkcs8, PKCS12_SAFEBAG_create_pkcs8_encrypt,

PKCS12_SAFEBAG_create_pkcs8_encrypt_ex - Create PKCS#12 safeBag objects

SYNOPSIS

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

PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_cert(X509 *x509);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_crl(X509_CRL *crl);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_secret(int type, int vtype,
                                             const unsigned char* value,
                                             int len);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create0_p8inf(PKCS8_PRIV_KEY_INFO *p8);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_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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