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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'PKCS12\_add\_key\_ex.3ossl'***

***\$ man PKCS12\_add\_key\_ex.3ossl***

PKCS12\_ADD\_CERT(3ossl)      OpenSSL      PKCS12\_ADD\_CERT(3ossl)

#### NAME

PKCS12\_add\_cert, PKCS12\_add\_key, PKCS12\_add\_key\_ex, PKCS12\_add\_secret -

Add an object to a set of PKCS#12 safeBags

#### SYNOPSIS

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

```
PKCS12_SAFEBAG *PKCS12_add_cert(STACK_OF(PKCS12_SAFEBAG) **pbags, X509 *cert);
```

```
PKCS12_SAFEBAG *PKCS12_add_key(STACK_OF(PKCS12_SAFEBAG) **pbags,
```

```
    EVP_PKEY *key, int key_usage, int iter,
```

```
    int key_nid, const char *pass);
```

```
PKCS12_SAFEBAG *PKCS12_add_key_ex(STACK_OF(PKCS12_SAFEBAG) **pbags,
```

```
    EVP_PKEY *key, int key_usage, int iter,
```

```
    int key_nid, const char *pass,
```

```
    OSSL_LIB_CTX *ctx, const char *propq);
```

```
PKCS12_SAFEBAG *PKCS12_add_secret(STACK_OF(PKCS12_SAFEBAG) **pbags,  
int nid_type, const unsigned char *value, int len);
```

## DESCRIPTION

These functions create a new PKCS12\_SAFEBAG and add it to the set of safeBags in pbags.

PKCS12\_add\_cert() creates a PKCS#12 certBag containing the supplied certificate and adds this to the set of PKCS#12 safeBags.

PKCS12\_add\_key() creates a PKCS#12 keyBag (unencrypted) or a pkcs8shroudedKeyBag (encrypted) containing the supplied EVP\_PKEY and adds this to the set of PKCS#12 safeBags. If key\_nid is not -1 then the key is encrypted with the supplied algorithm, using pass as the passphrase and iter as the iteration count. If iter is zero then a default value for iteration count of 2048 is used.

PKCS12\_add\_key\_ex() is identical to PKCS12\_add\_key() but allows for a library context ctx and property query propq to be used to select algorithm implementations.

PKCS12\_add\_secret() creates a PKCS#12 secretBag with an OID corresponding to the supplied nid\_type containing the supplied value as an ASN1 octet string. This is then added to the set of PKCS#12 safeBags.

## NOTES

If a certificate contains an alias or a keyid then this will be used for the corresponding friendlyName or localKeyID in the PKCS12 structure.

PKCS12\_add\_key() makes assumptions regarding the encoding of the given pass phrase. See passphrase-encoding(7) for more information.

## RETURN VALUES

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)`

## HISTORY

`PKCS12_add_secret()` and `PKCS12_add_key_ex()` were added in OpenSSL 3.0.

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