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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'PKCS12_add_safe_ex.3ossl' command

$ man PKCS12_add_safe_ex.3ossl

PKCS12_ADD_SAFE(3ossl) OpenSSL PKCS12_ADD_SAFE(3ossl)

NAME

PKCS12_add_safe, PKCS12_add_safe_ex, PKCS12_add_safes,

PKCS12_add_safes_ex - Create and add objects to a PKCS#12 structure

SYNOPSIS

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

int PKCS12_add_safe(STACK_OF(PKCS7) **psafes, STACK_OF(PKCS12_SAFEBAG) *bags,
                    int safe_nid, int iter, const char *pass);
int PKCS12_add_safe_ex(STACK_OF(PKCS7) **psafes, STACK_OF(PKCS12_SAFEBAG) *bags,
                       int safe_nid, int iter, const char *pass,
                       OSSL_LIB_CTX *ctx, const char *propq);

PKCS12 *PKCS12_add_safes(STACK_OF(PKCS7) *safes, int p7_nid);
PKCS12 *PKCS12_add_safes_ex(STACK_OF(PKCS7) *safes, int p7_nid,
                            OSSL_LIB_CTX *ctx, const char *propq);
```

DESCRIPTION

PKCS12_add_safe() creates a new PKCS7 contentInfo containing the

supplied PKCS12_SAFEBAGs and adds this to a set of PKCS7 contentInfos.

Its type depends on the value of safe_nid:

? If safe_nid is -1, a plain PKCS7 data contentInfo is created.

? If safe_nid is a valid PBE algorithm NID, a PKCS7 encryptedData contentInfo is created. The algorithm uses 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.

? If safe_nid is 0, a PKCS7 encryptedData contentInfo is created using a default encryption algorithm, currently NID_pbe_WithSHA1And3_Key_TripleDES_CBC.

PKCS12_add_safe_ex() is identical to PKCS12_add_safe() but allows for a library context ctx and property query propq to be used to select algorithm implementations.

PKCS12_add_safes() creates a PKCS12 structure containing the supplied set of PKCS7 contentInfos. The safes are enclosed first within a PKCS7 contentInfo of type p7_nid. Currently the only supported type is NID_pkcs7_data.

PKCS12_add_safes_ex() is identical to PKCS12_add_safes() but allows for a library context ctx and property query propq to be used to select algorithm implementations.

NOTES

PKCS12_add_safe() makes assumptions regarding the encoding of the given pass phrase. See passphrase-encoding(7) for more information.

RETURN VALUES

PKCS12_add_safe() returns a value of 1 indicating success or 0 for failure.

PKCS12_add_safes() returns a valid PKCS12 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_safe_ex() and PKCS12_add_safes_ex() were added in OpenSSL 3.0.

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