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***Rocky Enterprise Linux 9.2 Manual Pages on command 'PKCS12\_item\_i2d\_encrypt.3ossl'***

***\$ man PKCS12\_item\_i2d\_encrypt.3ossl***

PKCS12\_ITEM\_DECRYPT\_D2I(3ossl) OpenSSL PKCS12\_ITEM\_DECRYPT\_D2I(3ossl)

**NAME**

PKCS12\_item\_decrypt\_d2i, PKCS12\_item\_decrypt\_d2i\_ex,  
PKCS12\_item\_i2d\_encrypt, PKCS12\_item\_i2d\_encrypt\_ex - PKCS12 item  
encrypt/decrypt functions

**SYNOPSIS**

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

```
void *PKCS12_item_decrypt_d2i(const X509_ALGOR *algor, const ASN1_ITEM *it,  
    const char *pass, int passlen,  
    const ASN1_OCTET_STRING *oct, int zbuf);
```

```
void *PKCS12_item_decrypt_d2i_ex(const X509_ALGOR *algor, const ASN1_ITEM *it,  
    const char *pass, int passlen,  
    const ASN1_OCTET_STRING *oct, int zbuf,  
    OSSL_LIB_CTX *libctx,  
    const char *propq);
```

```

ASN1_OCTET_STRING *PKCS12_item_i2d_encrypt(X509_ALGOR *algor,
      const ASN1_ITEM *it,
      const char *pass, int passlen,
      void *obj, int zbuf);

ASN1_OCTET_STRING *PKCS12_item_i2d_encrypt_ex(X509_ALGOR *algor,
      const ASN1_ITEM *it,
      const char *pass, int passlen,
      void *obj, int zbuf,
      OSSL_LIB_CTX *ctx,
      const char *propq);

```

## DESCRIPTION

PKCS12\_item\_decrypt\_d2i() and PKCS12\_item\_decrypt\_d2i\_ex() decrypt an octet string containing an ASN.1 encoded object using the algorithm algor and password pass of length passlen. If zbuf is nonzero then the output buffer will be zeroed after the decrypt.

PKCS12\_item\_i2d\_encrypt() and PKCS12\_item\_i2d\_encrypt\_ex() encrypt an ASN.1 object it using the algorithm algor and password pass of length passlen, returning an encoded object in obj. If zbuf is nonzero then the buffer containing the input encoding will be zeroed after the encrypt.

Functions ending in \_ex() allow for a library context ctx and property query propq to be used to select algorithm implementations.

## RETURN VALUES

PKCS12\_item\_decrypt\_d2i() and PKCS12\_item\_decrypt\_d2i\_ex() return the decrypted object or NULL if an error occurred.

PKCS12\_item\_i2d\_encrypt() and PKCS12\_item\_i2d\_encrypt\_ex() return the encrypted data as an ASN.1 Octet String or NULL if an error occurred.

## SEE ALSO

PKCS12\_pbe\_crypt\_ex(3), PKCS8\_encrypt\_ex(3)

## HISTORY

PKCS12\_item\_decrypt\_d2i\_ex() and PKCS12\_item\_i2d\_encrypt\_ex() were added in OpenSSL 3.0.

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