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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'PEM\_X509\_INFO\_read\_ex.3ossl' command**

```
$ man PEM_X509_INFO_read_ex.3ossl
```

```
PEM_X509_INFO_READ_BIO_EX(3ossl)  OpenSSL  PEM_X509_INFO_READ_BIO_EX(3ossl)
```

### NAME

PEM\_X509\_INFO\_read\_ex, PEM\_X509\_INFO\_read, PEM\_X509\_INFO\_read\_bio\_ex,  
PEM\_X509\_INFO\_read\_bio - read PEM-encoded data structures into one or  
more X509\_INFO objects

### SYNOPSIS

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

```
STACK_OF(X509_INFO) *PEM_X509_INFO_read_ex(FILE *fp, STACK_OF(X509_INFO) *sk,  
      pem_password_cb *cb, void *u,  
      OSSL_LIB_CTX *libctx,  
      const char *propq);
```

```
STACK_OF(X509_INFO) *PEM_X509_INFO_read(FILE *fp, STACK_OF(X509_INFO) *sk,  
      pem_password_cb *cb, void *u);
```

```
STACK_OF(X509_INFO) *PEM_X509_INFO_read_bio_ex(BIO *bio,  
      STACK_OF(X509_INFO) *sk,  
      pem_password_cb *cb, void *u,  
      OSSL_LIB_CTX *libctx,  
      const char *propq);
```

```
STACK_OF(X509_INFO) *PEM_X509_INFO_read_bio(BIO *bp, STACK_OF(X509_INFO) *sk,  
      pem_password_cb *cb, void *u);
```

## DESCRIPTION

PEM\_X509\_INFO\_read\_ex() loads the X509\_INFO objects from a file fp.

PEM\_X509\_INFO\_read() is similar to PEM\_X509\_INFO\_read\_ex() but uses the default (NULL) library context libctx and empty property query propq.

PEM\_X509\_INFO\_read\_bio\_ex() loads the X509\_INFO objects using a bio bp.

PEM\_X509\_INFO\_read\_bio() is similar to PEM\_X509\_INFO\_read\_bio\_ex() but uses the default (NULL) library context libctx and empty property query propq.

Each of the loaded X509\_INFO objects can contain a CRL, a certificate, and/or a private key. The elements are read sequentially, and as far as they are of different type than the elements read before, they are combined into the same X509\_INFO object. The idea behind this is that if, for instance, a certificate is followed by a private key, the private key is supposed to correspond to the certificate.

If the input stack sk is NULL a new stack is allocated, else the given stack is extended.

The optional cb and u parameters can be used for providing a pass phrase needed for decrypting encrypted PEM structures (normally only private keys). See PEM\_read\_bio\_PrivateKey(3) and passphrase-encoding(7) for details.

The library context libctx and property query propq are used for fetching algorithms from providers.

## RETURN VALUES

PEM\_X509\_INFO\_read\_ex(), PEM\_X509\_INFO\_read(),

PEM\_X509\_INFO\_read\_bio\_ex() and PEM\_X509\_INFO\_read\_bio() return a stack of X509\_INFO objects or NULL on failure.

#### SEE ALSO

PEM\_read\_bio\_ex(3), PEM\_read\_bio\_PrivateKey(3), passphrase-encoding(7)

#### HISTORY

The functions PEM\_X509\_INFO\_read\_ex() and PEM\_X509\_INFO\_read\_bio\_ex() were added in OpenSSL 3.0.

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3.0.7                    2023-07-13 PEM\_X509\_INFO\_READ\_BIO\_EX(3oss)