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Rocky Enterprise Linux 9.2 Manual Pages on command 'PEM_read_bio_ECCKParameters.3ossl'

\$ man PEM_read_bio_ECCKParameters.3ossl

PEM_READ_CMS(3ossl) OpenSSL PEM_READ_CMS(3ossl)

NAME

DECLARE_PEM_rw, PEM_read_CMS, PEM_read_bio_CMS, PEM_write_CMS,
PEM_write_bio_CMS, PEM_write_DHxparams, PEM_write_bio_DHxparams,
PEM_read_ECCKParameters, PEM_read_bio_ECCKParameters,
PEM_write_ECCKParameters, PEM_write_bio_ECCKParameters,
PEM_read_ECPrivateKey, PEM_write_ECPrivateKey,
PEM_write_bio_ECPrivateKey, PEM_read_EC_PUBKEY, PEM_read_bio_EC_PUBKEY,
PEM_write_EC_PUBKEY, PEM_write_bio_EC_PUBKEY,
PEM_read_NETSCAPE_CERT_SEQUENCE, PEM_read_bio_NETSCAPE_CERT_SEQUENCE,
PEM_write_NETSCAPE_CERT_SEQUENCE, PEM_write_bio_NETSCAPE_CERT_SEQUENCE,
PEM_read_PKCS8, PEM_read_bio_PKCS8, PEM_write_PKCS8,
PEM_write_bio_PKCS8, PEM_write_PKCS8_PRIV_KEY_INFO,
PEM_read_bio_PKCS8_PRIV_KEY_INFO, PEM_read_PKCS8_PRIV_KEY_INFO,
PEM_write_bio_PKCS8_PRIV_KEY_INFO, PEM_read_SSL_SESSION,
PEM_read_bio_SSL_SESSION, PEM_write_SSL_SESSION,
PEM_write_bio_SSL_SESSION, PEM_read_X509_PUBKEY,

PEM_read_bio_X509_PUBKEY, PEM_write_X509_PUBKEY,
PEM_write_bio_X509_PUBKEY - PEM object encoding routines

SYNOPSIS

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

```
DECLARE_PEM_rw(name, TYPE)
```

```
TYPE *PEM_read_TYPE(FILE *fp, TYPE **a, pem_password_cb *cb, void *u);
```

```
TYPE *PEM_read_bio_TYPE(BIO *bp, TYPE **a, pem_password_cb *cb, void *u);
```

```
int PEM_write_TYPE(FILE *fp, const TYPE *a);
```

```
int PEM_write_bio_TYPE(BIO *bp, const TYPE *a);
```

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining OPENSSL_API_COMPAT with a suitable version value, see openssl_user_macros(7):

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

```
int PEM_write_DHparams(FILE *out, const DH *dh);
```

```
int PEM_write_bio_DHparams(BIO *out, const DH *dh);
```

```
EC_GROUP *PEM_read_ECPKParameters(FILE *fp, EC_GROUP **x, pem_password_cb *cb, void *u);
```

```
EC_GROUP *PEM_read_bio_ECPKParameters(BIO *bp, EC_GROUP **x, pem_password_cb *cb, void *u);
```

```
int PEM_write_ECPKParameters(FILE *out, const EC_GROUP *x);
```

```
int PEM_write_bio_ECPKParameters(BIO *out, const EC_GROUP *x);
```

```
EC_KEY *PEM_read_EC_PUBKEY(FILE *fp, EC_KEY **x, pem_password_cb *cb, void *u);
```

```
EC_KEY *PEM_read_bio_EC_PUBKEY(BIO *bp, EC_KEY **x, pem_password_cb *cb, void *u);
```

```
int PEM_write_EC_PUBKEY(FILE *out, const EC_KEY *x);
```

```
int PEM_write_bio_EC_PUBKEY(BIO *out, const EC_KEY *x);
```

```
EC_KEY *PEM_read_ECPrivateKey(FILE *out, EC_KEY **x, pem_password_cb *cb, void *u);
```

```
EC_KEY *PEM_read_bio_ECPrivateKey(BIO *out, EC_KEY **x, pem_password_cb *cb, void *u);
```

```
int PEM_write_ECPrivateKey(FILE *out, const EC_KEY *x, const EVP_CIPHER *enc,  
    const unsigned char *kstr, int klen,  
    pem_password_cb *cb, void *u);  
  
int PEM_write_bio_ECPrivateKey(BIO *out, const EC_KEY *x, const EVP_CIPHER *enc,  
    const unsigned char *kstr, int klen,  
    pem_password_cb *cb, void *u);
```

DESCRIPTION

All of the functions described on this page are deprecated.

Applications should use `OSSL_ENCODER_to_bio()` and `OSSL_DECODER_from_bio()` instead.

In the description below, `TYPE` is used as a placeholder for any of the OpenSSL datatypes, such as `X509`. The macro `DECLARE_PEM_rw` expands to the set of declarations shown in the next four lines of the synopsis.

These routines convert between local instances of ASN1 datatypes and the PEM encoding. For more information on the templates, see `ASN1_ITEM(3)`. For more information on the lower-level routines used by the functions here, see `PEM_read(3)`.

`PEM_read_TYPE()` reads a PEM-encoded object of `TYPE` from the file `fp` and returns it. The `cb` and `u` parameters are as described in `pem_password_cb(3)`.

`PEM_read_bio_TYPE()` is similar to `PEM_read_TYPE()` but reads from the BIO `bp`.

`PEM_write_TYPE()` writes the PEM encoding of the object `a` to the file `fp`.

`PEM_write_bio_TYPE()` similarly writes to the BIO `bp`.

NOTES

These functions make no assumption regarding the pass phrase received from the password callback. It will simply be treated as a byte sequence.

RETURN VALUES

PEM_read_TYPE() and PEM_read_bio_TYPE() return a pointer to an allocated object, which should be released by calling TYPE_free(), or NULL on error.

PEM_write_TYPE() and PEM_write_bio_TYPE() return the number of bytes written or zero on error.

SEE ALSO

PEM_read(3), passphrase-encoding(7)

HISTORY

The functions PEM_write_DHparams(), PEM_write_bio_DHparams(), PEM_read_ECParameters(), PEM_read_bio_ECParameters(), PEM_write_ECParameters(), PEM_write_bio_ECParameters(), PEM_read_EC_PUBKEY(), PEM_read_bio_EC_PUBKEY(), PEM_write_EC_PUBKEY(), PEM_write_bio_EC_PUBKEY(), PEM_read_ECPrivateKey(), PEM_read_bio_ECPrivateKey(), PEM_write_ECPrivateKey() and PEM_write_bio_ECPrivateKey() were deprecated in OpenSSL 3.0.

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