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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP\_PKCS82PKEY\_ex.3ossl' command**

**\$ man EVP\_PKCS82PKEY\_ex.3ossl**

EVP\_PKEY2PKCS8(3ossl)      OpenSSL      EVP\_PKEY2PKCS8(3ossl)

### NAME

EVP\_PKEY2PKCS8, EVP\_PKCS82PKEY\_ex, EVP\_PKCS82PKEY - Convert a private key to/from PKCS8

### SYNOPSIS

```
#include <openssl/x509.h>
```

```
PKCS8_PRIV_KEY_INFO *EVP_PKEY2PKCS8(const EVP_PKEY *pkey);
```

```
EVP_PKEY *EVP_PKCS82PKEY(const PKCS8_PRIV_KEY_INFO *p8);
```

```
EVP_PKEY *EVP_PKCS82PKEY_ex(const PKCS8_PRIV_KEY_INFO *p8, OSSL_LIB_CTX *libctx,  
const char *propq);
```

### DESCRIPTION

EVP\_PKEY2PKCS8() converts a private key pkey into a returned PKCS8 object.

EVP\_PKCS82PKEY\_ex() converts a PKCS8 object p8 into a returned private key. It uses libctx and propq when fetching algorithms.

EVP\_PKCS82PKEY() is similar to EVP\_PKCS82PKEY\_ex() but uses default values of NULL for the libctx and propq.

## RETURN VALUES

`EVP_PKEY2PKCS8()` returns a PKCS8 object on success. `EVP_PKCS82PKEY()` and `EVP_PKCS82PKEY_ex()` return a private key on success.

All functions return NULL if the operation fails.

## SEE ALSO

`PKCS8_pkey_add1_attr(3)`,

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3.0.7                    2023-07-13            EVP\_PKEY2PKCS8(3ossl)