

**NAME**

PKCS12\_decrypt\_key, PKCS12\_decrypt\_key\_ex - PKCS12 shrouded keyBag decrypt functions

**SYNOPSIS**

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

```
PKCS8_PRIV_KEY_INFO *PKCS12_decrypt_key(const PKCS12_SAFEBAG *bag,  
                                         const char *pass, int passlen);  
PKCS8_PRIV_KEY_INFO *PKCS12_decrypt_key_ex(const PKCS12_SAFEBAG *bag,  
                                           const char *pass, int passlen,  
                                           OSSL_LIB_CTX *ctx,  
                                           const char *propq);
```

**DESCRIPTION**

**PKCS12\_decrypt\_key()** Decrypt the PKCS#8 shrouded keybag contained within *bag* using the supplied password *pass* of length *passlen*.

**PKCS12\_decrypt\_key\_ex()** is similar to the above but allows for a library context *ctx* and property query *propq* to be used to select algorithm implementations.

**RETURN VALUES**

Both functions will return the decrypted key or NULL if an error occurred.

**CONFORMING TO**

IETF RFC 7292 (<<https://tools.ietf.org/html/rfc7292>>)

**SEE ALSO**

**PKCS8\_decrypt\_ex(3)**, **PKCS8\_encrypt\_ex(3)**, **PKCS12\_add\_key\_ex(3)**,  
**PKCS12\_SAFEBAG\_create\_pkcs8\_encrypt\_ex(3)**

**HISTORY**

**PKCS12\_decrypt\_key\_ex()** was added in OpenSSL 3.0.

**COPYRIGHT**

Copyright 2021-2023 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <<https://www.openssl.org/source/license.html>>.