

**NAME**

PKCS12\_parse - parse a PKCS#12 structure

**SYNOPSIS**

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

int PKCS12_parse(PKCS12 *p12, const char *pass, EVP_PKEY **pkey, X509 **cert, STACK_OF(X509)
**ca);
```

**DESCRIPTION**

*PKCS12\_parse()* parses a PKCS12 structure.

**p12** is the **PKCS12** structure to parse. **pass** is the passphrase to use. If successful the private key will be written to **\*pkey**, the corresponding certificate to **\*cert** and any additional certificates to **\*ca**.

**NOTES**

The parameters **pkey** and **cert** cannot be **NULL**. **ca** can be **<NULL>** in which case additional certificates will be discarded. **\*ca** can also be a valid **STACK** in which case additional certificates are appended to **\*ca**. If **\*ca** is **NULL** a new **STACK** will be allocated.

The **friendlyName** and **localKeyID** attributes (if present) on each certificate will be stored in the **alias** and **keyid** attributes of the **X509** structure.

The parameter **pass** is interpreted as a string in the UTF-8 encoding. If it is not valid UTF-8, then it is assumed to be ISO8859-1 instead.

In particular, this means that passwords in the locale character set (or code page on Windows) must potentially be converted to UTF-8 before use. This may include passwords from local text files, or input from the terminal or command line. Refer to the documentation of [UI\\_OpenSSL\(3\)](#), for example.

**RETURN VALUES**

*PKCS12\_parse()* returns 1 for success and zero if an error occurred.

The error can be obtained from [ERR\\_get\\_error\(3\)](#)

**BUGS**

Only a single private key and corresponding certificate is returned by this function. More complex PKCS#12 files with multiple private keys will only return the first match.

Only **friendlyName** and **localKeyID** attributes are currently stored in certificates. Other attributes are discarded.

Attributes currently cannot be stored in the private key **EVP\_PKEY** structure.

**SEE ALSO**

[d2i\\_PKCS12\(3\)](#)

**COPYRIGHT**

Copyright 2002-2016 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the OpenSSL license (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>.