NAME

PKCS7_decrypt - decrypt content from a PKCS#7 envelopedData structure

SYNOPSIS

```
#include <openssl/pkcs7.h>

int PKCS7_decrypt(PKCS7 *p7, EVP_PKEY *pkey, X509 *cert, BIO *data, int flags);
```

DESCRIPTION

PKCS7_decrypt() extracts and decrypts the content from a PKCS#7 envelopedData structure. **pkey** is the private key of the recipient, **cert** is the recipients certificate, **data** is a BIO to write the content to and **flags** is an optional set of flags.

NOTES

Although the recipients certificate is not needed to decrypt the data it is needed to locate the appropriate (of possible several) recipients in the PKCS#7 structure.

The following flags can be passed in the **flags** parameter.

If the **PKCS7_TEXT** flag is set MIME headers for type **text/plain** are deleted from the content. If the content is not of type **text/plain** then an error is returned.

RETURN VALUES

PKCS7_decrypt() returns either 1 for success or 0 for failure. The error can be obtained from **ERR_get_error**(3)

BUGS

PKCS7_decrypt() must be passed the correct recipient key and certificate. It would be better if it could look up the correct key and certificate from a database.

The lack of single pass processing and need to hold all data in memory as mentioned in **PKCS7_sign()** also applies to **PKCS7_verify()**.

SEE ALSO

ERR_get_error(3), **PKCS7_encrypt**(3)

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