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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'PKCS7_decrypt.3oss1' command

\$ man PKCS7_decrypt.3oss1

PKCS7_DECRYPT(3oss1) OpenSSL PKCS7_DECRYPT(3oss1)

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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