NAME

CMS_EncryptedData_encrypt_ex, CMS_EncryptedData_encrypt - Create CMS EncryptedData

SYNOPSIS

#include <openssl/cms.h>

```
CMS_ContentInfo *CMS_EncryptedData_encrypt_ex(BIO *in, const EVP_CIPHER *cipher, const unsigned char *key, size_t keylen, unsigned int flags, OSSL_LIB_CTX *ctx, const char *propq);
```

```
CMS_ContentInfo *CMS_EncryptedData_encrypt(BIO *in, const EVP_CIPHER *cipher, const unsigned char *key, size_t keylen, unsigned int flags);
```

DESCRIPTION

CMS_EncryptedData_encrypt_ex() creates a **CMS_ContentInfo** structure with a type **NID_pkcs7_encrypted**. *in* is a BIO containing the data to encrypt using *cipher* and the encryption key *key* of size *keylen* bytes. The library context *libctx* and the property query *propq* are used when retrieving algorithms from providers. *flags* is a set of optional flags.

The *flags* field supports the options **CMS_DETACHED**, **CMS_STREAM** and **CMS_PARTIAL**. Internally **CMS_final**() is called unless **CMS_STREAM** and/or **CMS_PARTIAL** is specified.

The algorithm passed in the *cipher* parameter must support ASN1 encoding of its parameters.

The CMS_ContentInfo structure can be freed using CMS_ContentInfo_free(3).

CMS_EncryptedData_encrypt() is similar to **CMS_EncryptedData_encrypt_ex()** but uses default values of NULL for the library context *libctx* and the property query *propq*.

RETURN VALUES

If the allocation fails, CMS_EncryptedData_encrypt_ex() and CMS_EncryptedData_encrypt() return NULL and set an error code that can be obtained by ERR_get_error(3). Otherwise they return a pointer to the newly allocated structure.

SEE ALSO

3.0.11 2023-09-19 CM

ERR_get_error(3), CMS_final(3), CMS_EncryptedData_decrypt(3)

HISTORY

The CMS_EncryptedData_encrypt_ex() method was added in OpenSSL 3.0.

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