

NAME

CMS_ReceiptRequest_create0_ex, CMS_ReceiptRequest_create0, CMS_add1_ReceiptRequest, CMS_get1_ReceiptRequest, CMS_ReceiptRequest_get0_values – CMS signed receipt request functions

SYNOPSIS

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

```
CMS_ReceiptRequest *CMS_ReceiptRequest_create0_ex(
    unsigned char *id, int idlen, int allorfirst,
    STACK_OF(GENERAL_NAMES) *receiptList, STACK_OF(GENERAL_NAMES) *receiptsTo,
    OSSL_LIB_CTX *libctx);
CMS_ReceiptRequest *CMS_ReceiptRequest_create0(
    unsigned char *id, int idlen, int allorfirst,
    STACK_OF(GENERAL_NAMES) *receiptList, STACK_OF(GENERAL_NAMES) *receiptsTo);
int CMS_add1_ReceiptRequest(CMS_SignerInfo *si, CMS_ReceiptRequest *rr);
int CMS_get1_ReceiptRequest(CMS_SignerInfo *si, CMS_ReceiptRequest **pr);
void CMS_ReceiptRequest_get0_values(CMS_ReceiptRequest *rr, ASN1_STRING **pcid,
    int *pallorfirst,
    STACK_OF(GENERAL_NAMES) **plist,
    STACK_OF(GENERAL_NAMES) **prto);
```

DESCRIPTION

CMS_ReceiptRequest_create0_ex() creates a signed receipt request structure. The **signedContentIdentifier** field is set using *id* and *idlen*, or it is set to 32 bytes of pseudo random data if *id* is NULL. If *receiptList* is NULL the *allOrFirstTier* option in *receiptsFrom* is used and set to the value of the *allorfirst* parameter. If *receiptList* is not NULL the *receiptList* option in *receiptsFrom* is used. The *receiptsTo* parameter specifies the *receiptsTo* field value. The library context *libctx* is used to find the public random generator.

CMS_ReceiptRequest_create0() is similar to **CMS_ReceiptRequest_create0_ex()** but uses default values of NULL for the library context *libctx*.

The **CMS_add1_ReceiptRequest()** function adds a signed receipt request **rr** to SignerInfo structure **si**.

CMS_get1_ReceiptRequest() looks for a signed receipt request in **si**, if any is found it is decoded and written to **pr**.

CMS_ReceiptRequest_get0_values() retrieves the values of a receipt request. The **signedContentIdentifier** is copied to **pcid**. If the **allOrFirstTier** option of **receiptsFrom** is used its value is copied to **pallorfirst** otherwise the **receiptList** field is copied to **plist**. The **receiptsTo** parameter is copied to **prto**.

NOTES

For more details of the meaning of the fields see RFC2634.

The contents of a signed receipt should only be considered meaningful if the corresponding CMS_ContentInfo structure can be successfully verified using **CMS_verify()**.

RETURN VALUES

CMS_ReceiptRequest_create0_ex() and **CMS_ReceiptRequest_create0()** return a signed receipt request structure or NULL if an error occurred.

CMS_add1_ReceiptRequest() returns 1 for success or 0 if an error occurred.

CMS_get1_ReceiptRequest() returns 1 if a signed receipt request is found and decoded. It returns 0 if a signed receipt request is not present and -1 if it is present but malformed.

SEE ALSO

ERR_get_error(3), **CMS_sign(3)**, **CMS_sign_receipt(3)**, **CMS_verify(3)**, **CMS_verify_receipt(3)**

HISTORY

The function **CMS_ReceiptRequest_create0_ex()** was added in OpenSSL 3.0.

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