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***Rocky Enterprise Linux 9.2 Manual Pages on command 'CMS\_add1\_ReceiptRequest.3ossl'***

***\$ man CMS\_add1\_ReceiptRequest.3ossl***

CMS\_GET1\_RECEIPTREQUEST(3ossl) OpenSSL CMS\_GET1\_RECEIPTREQUEST(3ossl)

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 allorfirsr,  
    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 allorfirsr,  
    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.

int CMS\_get1\_ReceiptRequest() looks for a signed receipt request in si, if any is found it is decoded and written to prr.

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.

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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