

**NAME**

CMS\_ReceiptRequest\_create0, CMS\_add1\_ReceiptRequest, CMS\_get1\_ReceiptRequest, CMS\_ReceiptRequest

**SYNOPSIS**

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

```
CMS_ReceiptRequest *CMS_ReceiptRequest_create0(unsigned char *id, int idlen, int allorfirst,
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 *pallorf
```

**DESCRIPTION**

*CMS\_ReceiptRequest\_create0()* 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 *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()* returns 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**

*CMS\_ReceiptRequest\_create0()*, *CMS\_add1\_ReceiptRequest()*, *CMS\_get1\_ReceiptRequest()* and *CMS\_ReceiptRequest\_get0\_values()* were added to OpenSSL 0.9.8