

**NAME**

`CMS_ReceiptRequest_create0`, `CMS_add1_ReceiptRequest`, `CMS_get1_ReceiptRequest`, `CMS_ReceiptRequest_get0_values`

**SYNOPSIS**

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

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

**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