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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'CMS_ReceiptRequest_get0_values.3oss1' command

\$ man CMS_ReceiptRequest_get0_values.3oss1

CMS_GET1_RECEIPTREQUEST(3oss1) OpenSSL CMS_GET1_RECEIPTREQUEST(3oss1)

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 *pallorfirsr,  
    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`.

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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