

**NAME**

`CMS_data_create_ex`, `CMS_data_create` - Create CMS Data object

**SYNOPSIS**

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

```
CMS_ContentInfo *CMS_data_create_ex(BIO *in, unsigned int flags,  
                                     OSSL_LIB_CTX *libctx, const char *propq);  
CMS_ContentInfo *CMS_data_create(BIO *in, unsigned int flags);
```

**DESCRIPTION**

`CMS_data_create_ex()` creates a **CMS\_ContentInfo** structure with a type **NID\_pkcs7\_data**. The data is supplied via the *in* BIO. The library context *libctx* and the property query *propq* are used when retrieving algorithms from providers. The *flags* field supports the **CMS\_STREAM** flag. Internally `CMS_final()` is called unless **CMS\_STREAM** is specified.

The **CMS\_ContentInfo** structure can be freed using `CMS_ContentInfo_free(3)`.

`CMS_data_create()` is similar to `CMS_data_create_ex()` but uses default values of NULL for the library context *libctx* and the property query *propq*.

**RETURN VALUES**

If the allocation fails, `CMS_data_create_ex()` and `CMS_data_create()` return NULL and set an error code that can be obtained by `ERR_get_error(3)`. Otherwise they return a pointer to the newly allocated structure.

**SEE ALSO**

`ERR_get_error(3)`, `CMS_final(3)`

**HISTORY**

The `CMS_data_create_ex()` method was added in OpenSSL 3.0.

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