

NAME

CMS_digest_create_ex, CMS_digest_create – Create CMS DigestedData object

SYNOPSIS

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

```
CMS_ContentInfo *CMS_digest_create_ex(BIO *in, const EVP_MD *md,  
                                       unsigned int flags, OSSL_LIB_CTX *ctx,  
                                       const char *propq);
```

```
CMS_ContentInfo *CMS_digest_create(BIO *in, const EVP_MD *md,  
                                   unsigned int flags);
```

DESCRIPTION

CMS_digest_create_ex() creates a **CMS_ContentInfo** structure with a type **NID_pkcs7_digest**. The data supplied via the *in* BIO is digested using *md*. The library context *libctx* and the property query *propq* are used when retrieving algorithms from providers. The *flags* field supports the **CMS_DETACHED** and **CMS_STREAM** flags. Internally **CMS_final()** is called unless **CMS_STREAM** is specified.

The **CMS_ContentInfo** structure can be freed using **CMS_ContentInfo_free**(3).

CMS_digest_create() is similar to **CMS_digest_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_digest_create_ex()** and **CMS_digest_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_digest_create_ex()** method was added in OpenSSL 3.0.

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