

**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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