

**NAME**

`CMS_final` - finalise a `CMS_ContentInfo` structure

**SYNOPSIS**

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

```
int CMS_final(CMS_ContentInfo *cms, BIO *data, BIO *dcont, unsigned int flags);
```

**DESCRIPTION**

`CMS_final()` finalises the structure `cms`. It's purpose is to perform any operations necessary on `cms` (digest computation for example) and set the appropriate fields. The parameter `data` contains the content to be processed. The `dcont` parameter contains a BIO to write content to after processing; this is only used with detached data and will usually be set to NULL.

**NOTES**

This function will normally be called when the `CMS_PARTIAL` flag is used. It should only be used when streaming is not performed because the streaming I/O functions perform finalisation operations internally.

**RETURN VALUES**

`CMS_final()` returns 1 for success or 0 for failure.

**SEE ALSO**

[ERR\\_get\\_error\(3\)](#), [CMS\\_sign\(3\)](#), [CMS\\_encrypt\(3\)](#)

**HISTORY**

`CMS_final()` was added to OpenSSL 0.9.8