

NAME

SMIME_read_CMS - parse S/MIME message

SYNOPSIS

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

```
CMS_ContentInfo *SMIME_read_CMS(BIO *in, BIO **bcont);
```

DESCRIPTION

SMIME_read_CMS() parses a message in S/MIME format.

in is a BIO to read the message from.

If cleartext signing is used then the content is saved in a memory bio which is written to ***bcont**, otherwise ***bcont** is set to NULL.

The parsed CMS_ContentInfo structure is returned or NULL if an error occurred.

NOTES

If ***bcont** is not NULL then the message is clear text signed. ***bcont** can then be passed to *CMS_verify()* with the **CMS_DETACHED** flag set.

Otherwise the type of the returned structure can be determined using *CMS_get0_type()*.

To support future functionality if **bcont** is not NULL ***bcont** should be initialized to NULL. For example:

```
BIO *cont = NULL;
CMS_ContentInfo *cms;

cms = SMIME_read_CMS(in, &cont);
```

BUGS

The MIME parser used by *SMIME_read_CMS()* is somewhat primitive. While it will handle most S/MIME messages more complex compound formats may not work.

The parser assumes that the CMS_ContentInfo structure is always base64 encoded and will not handle the case where it is in binary format or uses quoted printable format.

The use of a memory BIO to hold the signed content limits the size of message which can be processed due to memory restraints: a streaming single pass option should be available.

RETURN VALUES

SMIME_read_CMS() returns a valid **CMS_ContentInfo** structure or **NULL** if an error occurred. The error can be obtained from *ERR_get_error(3)*.

SEE ALSO

[ERR_get_error\(3\)](#), [CMS_type\(3\)](#), [SMIME_read_CMS\(3\)](#), [CMS_sign\(3\)](#), [CMS_verify\(3\)](#), [CMS_encrypt\(3\)](#), [CMS_decrypt\(3\)](#)

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