

**NAME**

i2d\_CMS\_bio\_stream - output CMS\_ContentInfo structure in BER format

**SYNOPSIS**

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

```
int i2d_CMS_bio_stream(BIO *out, CMS_ContentInfo *cms, BIO *data, int flags);
```

**DESCRIPTION**

**i2d\_CMS\_bio\_stream()** outputs a CMS\_ContentInfo structure in BER format.

It is otherwise identical to the function **SMIME\_write\_CMS()**.

**NOTES**

This function is effectively a version of the **i2d\_CMS\_bio()** supporting streaming.

**BUGS**

The prefix "i2d" is arguably wrong because the function outputs BER format.

**RETURN VALUES**

**i2d\_CMS\_bio\_stream()** returns 1 for success or 0 for failure.

**SEE ALSO**

**ERR\_get\_error(3)**, **CMS\_sign(3)**, **CMS\_verify(3)**, **CMS\_encrypt(3)** **CMS\_decrypt(3)**,  
**SMIME\_write\_CMS(3)**, **PEM\_write\_bio\_CMS\_stream(3)**

**HISTORY**

The **i2d\_CMS\_bio\_stream()** function was added in OpenSSL 1.0.0.

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