

NAME

d2i_SSL_SESSION, d2i_SSL_SESSION_ex, i2d_SSL_SESSION – convert SSL_SESSION object from/to ASN1 representation

SYNOPSIS

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

SSL_SESSION *d2i_SSL_SESSION(SSL_SESSION **a, const unsigned char **pp,
                              long length);
SSL_SESSION *d2i_SSL_SESSION_ex(SSL_SESSION **a, const unsigned char **pp,
                              long length, OSSL_LIB_CTX *libctx,
                              const char *propq);
int i2d_SSL_SESSION(SSL_SESSION *in, unsigned char **pp);
```

DESCRIPTION

These functions decode and encode an SSL_SESSION object. For encoding details see **d2i_X509(3)**.

SSL_SESSION objects keep internal link information about the session cache list, when being inserted into one SSL_CTX object's session cache. One SSL_SESSION object, regardless of its reference count, must therefore only be used with one SSL_CTX object (and the SSL objects created from this SSL_CTX object).

RETURN VALUES

d2i_SSL_SESSION() and **d2i_SSL_SESSION_ex()** return a pointer to the newly allocated SSL_SESSION object. In case of failure the NULL-pointer is returned and the error message can be retrieved from the error stack.

i2d_SSL_SESSION() returns the size of the ASN1 representation in bytes. When the session is not valid, 0 is returned and no operation is performed.

SEE ALSO

ssl(7), **SSL_SESSION_free(3)**, **SSL_CTX_sess_set_get_cb(3)**, **d2i_X509(3)**

HISTORY

The function **d2i_SSL_SESSION_ex()** was added in OpenSSL 3.2.

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