

**NAME**

d2i\_X509\_REQ, i2d\_X509\_REQ, d2i\_X509\_REQ\_bio, d2i\_X509\_REQ\_fp, i2d\_X509\_REQ\_bio, i2d\_X509\_REQ\_fp - PKCS#10 certificate request functions.

**SYNOPSIS**

```
#include <openssl/x509.h>
```

```
X509_REQ *d2i_X509_REQ(X509_REQ **a, const unsigned char **pp, long length);  
int i2d_X509_REQ(X509_REQ *a, unsigned char **pp);
```

```
X509_REQ *d2i_X509_REQ_bio(BIO *bp, X509_REQ **x);  
X509_REQ *d2i_X509_REQ_fp(FILE *fp, X509_REQ **x);
```

```
int i2d_X509_REQ_bio(BIO *bp, X509_REQ *x);  
int i2d_X509_REQ_fp(FILE *fp, X509_REQ *x);
```

**DESCRIPTION**

These functions decode and encode a PKCS#10 certificate request.

Otherwise these behave in a similar way to *d2i\_X509()* and *i2d\_X509()* described in the [d2i\\_X509\(3\)](#) manual page.

**SEE ALSO**

[d2i\\_X509\(3\)](#)

**HISTORY**

TBA