

**NAME**

X509\_load\_http, X509\_http\_nbio, X509\_CRL\_load\_http, X509\_CRL\_http\_nbio - certificate and CRL loading functions

**SYNOPSIS**

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

```
X509 *X509_load_http(const char *url, BIO *bio, BIO *rbio, int timeout);
```

```
X509_CRL *X509_CRL_load_http(const char *url, BIO *bio, BIO *rbio, int timeout);
```

The following macros have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining **OPENSSL\_API\_COMPAT** with a suitable version value, see **openssl\_user\_macros(7)**:

```
#define X509_http_nbio(rctx, pcert)
```

```
#define X509_CRL_http_nbio(rctx, pcr1)
```

**DESCRIPTION**

**X509\_load\_http()** and **X509\_CRL\_load\_http()** loads a certificate or a CRL, respectively, in ASN.1 format using HTTP from the given **url**.

If **bio** is given and **rbio** is NULL then this BIO is used instead of an internal one for connecting, writing the request, and reading the response. If both **bio** and **rbio** are given (which may be memory BIOs, for instance) then no explicit connection is attempted, **bio** is used for writing the request, and **rbio** for reading the response.

If the **timeout** parameter is > 0 this indicates the maximum number of seconds to wait until the transfer is complete. A value of 0 enables waiting indefinitely, while a value < 0 immediately leads to a timeout condition.

**X509\_http\_nbio()** and **X509\_CRL\_http\_nbio()** are macros for backward compatibility that have the same effect as the functions above but with infinite timeout and without the possibility to specify custom BIOs.

**RETURN VALUES**

On success the function yield the loaded value, else NULL. Error conditions include connection/transfer timeout, parse errors, etc.

**SEE ALSO**

**OSSL\_HTTP\_get(3)**

**HISTORY**

**X509\_load\_http()** and **X509\_CRL\_load\_http()** were added in OpenSSL 3.0. **X509\_http\_nbio()** and **X509\_CRL\_http\_nbio()** were deprecated in OpenSSL 3.0.

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