

NAME

X509_verify_cert - discover and verify X509 certificate chain

SYNOPSIS

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

int X509_verify_cert(X509_STORE_CTX *ctx);
```

DESCRIPTION

The *X509_verify_cert()* function attempts to discover and validate a certificate chain based on parameters in **ctx**. A complete description of the process is contained in the *verify(1)* manual page.

RETURN VALUES

If a complete chain can be built and validated this function returns 1, otherwise it return zero, in exceptional circumstances it can also return a negative code.

If the function fails additional error information can be obtained by examining **ctx** using, for example *X509_STORE_CTX_get_error()*.

NOTES

Applications rarely call this function directly but it is used by OpenSSL internally for certificate validation, in both the S/MIME and SSL/TLS code.

A negative return value from *X509_verify_cert()* can occur if it is invoked incorrectly, such as with no certificate set in **ctx**, or when it is called twice in succession without reinitialising **ctx** for the second call. A negative return value can also happen due to internal resource problems or if a retry operation is requested during internal lookups (which never happens with standard lookup methods). Applications must check for ≤ 0 return value on error.

BUGS

This function uses the header **x509.h** as opposed to most chain verification functions which use **x509_vfy.h**.

SEE ALSO

X509_STORE_CTX_get_error(3)

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