

**NAME**

SSL\_CTX\_set\_cert\_store, SSL\_CTX\_get\_cert\_store - manipulate X509 certificate verification storage

**SYNOPSIS**

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

void SSL_CTX_set_cert_store(SSL_CTX *ctx, X509_STORE *store);
X509_STORE *SSL_CTX_get_cert_store(const SSL_CTX *ctx);
```

**DESCRIPTION**

*SSL\_CTX\_set\_cert\_store()* sets/replaces the certificate verification storage of **ctx** to/with **store**. If another X509\_STORE object is currently set in **ctx**, it will be *X509\_STORE\_free()*ed.

*SSL\_CTX\_get\_cert\_store()* returns a pointer to the current certificate verification storage.

**NOTES**

In order to verify the certificates presented by the peer, trusted CA certificates must be accessed. These CA certificates are made available via lookup methods, handled inside the X509\_STORE. From the X509\_STORE the X509\_STORE\_CTX used when verifying certificates is created.

Typically the trusted certificate store is handled indirectly via using *SSL\_CTX\_load\_verify\_locations(3)*. Using the *SSL\_CTX\_set\_cert\_store()* and *SSL\_CTX\_get\_cert\_store()* functions it is possible to manipulate the X509\_STORE object beyond the *SSL\_CTX\_load\_verify\_locations(3)* call.

Currently no detailed documentation on how to use the X509\_STORE object is available. Not all members of the X509\_STORE are used when the verification takes place. So will e.g. the *verify\_callback()* be overridden with the *verify\_callback()* set via the *SSL\_CTX\_set\_verify(3)* family of functions. This document must therefore be updated when documentation about the X509\_STORE object and its handling becomes available.

**RESTRICTIONS**

The X509\_STORE structure used by an SSL\_CTX is used for verifying peer certificates and building certificate chains, it is also shared by every child SSL structure. Applications wanting finer control can use functions such as *SSL\_CTX\_set1\_verify\_cert\_store()* instead.

**RETURN VALUES**

*SSL\_CTX\_set\_cert\_store()* does not return diagnostic output.

*SSL\_CTX\_get\_cert\_store()* returns the current setting.

**SEE ALSO**

*ssl(3)*, *SSL\_CTX\_load\_verify\_locations(3)*, *SSL\_CTX\_set\_verify(3)*

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