NAME

SSL_CTX_set_cert_store, SSL_CTX_set1_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);
void SSL_CTX_set1_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_set1_cert_store() sets/replaces the certificate verification storage of **ctx** to/with **store**. The **store**'s reference count is incremented. 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.

SSL_CTX_set_cert_store() does not increment the **store**'s reference count, so it should not be used to assign an X509_STORE that is owned by another SSL_CTX.

To share X509_STOREs between two SSL_CTXs, use **SSL_CTX_get_cert_store()** to get the X509_STORE from the first SSL_CTX, and then use **SSL_CTX_set1_cert_store()** to assign to the second SSL_CTX and increment the reference count of the X509_STORE.

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_set1_cert_store() does not return diagnostic output.

SSL_CTX_get_cert_store() returns the current setting.

SEE ALSO

ssl(7), SSL_CTX_load_verify_locations(3), SSL_CTX_set_verify(3)

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