

NAME

SSL_CTX_set0_verify_cert_store, SSL_CTX_set1_verify_cert_store, SSL_CTX_set0_chain_cert_store, SSL_CTX_set1_chain_cert_store, SSL_set0_verify_cert_store, SSL_set1_verify_cert_store, SSL_set0_chain_cert_store, SSL_set1_chain_cert_store – set certificate verification or chain store

SYNOPSIS

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

int SSL_CTX_set0_verify_cert_store(SSL_CTX *ctx, X509_STORE *st);
int SSL_CTX_set1_verify_cert_store(SSL_CTX *ctx, X509_STORE *st);
int SSL_CTX_set0_chain_cert_store(SSL_CTX *ctx, X509_STORE *st);
int SSL_CTX_set1_chain_cert_store(SSL_CTX *ctx, X509_STORE *st);

int SSL_set0_verify_cert_store(SSL *ctx, X509_STORE *st);
int SSL_set1_verify_cert_store(SSL *ctx, X509_STORE *st);
int SSL_set0_chain_cert_store(SSL *ctx, X509_STORE *st);
int SSL_set1_chain_cert_store(SSL *ctx, X509_STORE *st);
```

DESCRIPTION

SSL_CTX_set0_verify_cert_store() and **SSL_CTX_set1_verify_cert_store()** set the certificate store used for certificate verification to **st**.

SSL_CTX_set0_chain_cert_store() and **SSL_CTX_set1_chain_cert_store()** set the certificate store used for certificate chain building to **st**.

SSL_set0_verify_cert_store(), **SSL_set1_verify_cert_store()**, **SSL_set0_chain_cert_store()** and **SSL_set1_chain_cert_store()** are similar except they apply to SSL structure **ssl**.

All these functions are implemented as macros. Those containing a **1** increment the reference count of the supplied store so it must be freed at some point after the operation. Those containing a **0** do not increment reference counts and the supplied store **MUST NOT** be freed after the operation.

NOTES

The stores pointers associated with an SSL_CTX structure are copied to any SSL structures when **SSL_new()** is called. As a result SSL structures will not be affected if the parent SSL_CTX store pointer is set to a new value.

The verification store is used to verify the certificate chain sent by the peer: that is an SSL/TLS client will use the verification store to verify the server's certificate chain and a SSL/TLS server will use it to verify any client certificate chain.

The chain store is used to build the certificate chain.

If the mode **SSL_MODE_NO_AUTO_CHAIN** is set or a certificate chain is configured already (for example using the functions such as **SSL_CTX_add1_chain_cert(3)** or **SSL_CTX_add_extra_chain_cert(3)**) then automatic chain building is disabled.

If the mode **SSL_MODE_NO_AUTO_CHAIN** is set then automatic chain building is disabled.

If the chain or the verification store is not set then the store associated with the parent SSL_CTX is used instead to retain compatibility with previous versions of OpenSSL.

RETURN VALUES

All these functions return 1 for success and 0 for failure.

SEE ALSO

[SSL_CTX_add_extra_chain_cert\(3\)](#) [SSL_CTX_set0_chain\(3\)](#) [SSL_CTX_set1_chain\(3\)](#)
[SSL_CTX_add0_chain_cert\(3\)](#) [SSL_CTX_add1_chain_cert\(3\)](#) [SSL_set0_chain\(3\)](#)
[SSL_set1_chain\(3\)](#) [SSL_add0_chain_cert\(3\)](#) [SSL_add1_chain_cert\(3\)](#)
[SSL_CTX_build_cert_chain\(3\)](#) [SSL_build_cert_chain\(3\)](#)

HISTORY

These functions were added in OpenSSL 1.0.2.

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