

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 first added to OpenSSL 1.0.2.

COPYRIGHT

Copyright 2013-2016 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the OpenSSL license (the “License”). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.