

NAME

SSL_CTX_add_extra_chain_cert, SSL_CTX_clear_extra_chain_certs - add or clear extra chain certificates

SYNOPSIS

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

```
long SSL_CTX_add_extra_chain_cert(SSL_CTX *ctx, X509 *x509);
long SSL_CTX_clear_extra_chain_certs(SSL_CTX *ctx);
```

DESCRIPTION

SSL_CTX_add_extra_chain_cert() adds the certificate **x509** to the extra chain certificates associated with **ctx**. Several certificates can be added one after another.

SSL_CTX_clear_extra_chain_certs() clears all extra chain certificates associated with **ctx**.

These functions are implemented as macros.

NOTES

When sending a certificate chain, extra chain certificates are sent in order following the end entity certificate.

If no chain is specified, the library will try to complete the chain from the available CA certificates in the trusted CA storage, see [SSL_CTX_load_verify_locations\(3\)](#).

The **x509** certificate provided to *SSL_CTX_add_extra_chain_cert()* will be freed by the library when the **SSL_CTX** is destroyed. An application **should not** free the **x509** object.

RESTRICTIONS

Only one set of extra chain certificates can be specified per **SSL_CTX** structure. Different chains for different certificates (for example if both RSA and DSA certificates are specified by the same server) or different **SSL** structures with the same parent **SSL_CTX** cannot be specified using this function. For more flexibility functions such as *SSL_add1_chain_cert()* should be used instead.

RETURN VALUES

SSL_CTX_add_extra_chain_cert() and *SSL_CTX_clear_extra_chain_certs()* return 1 on success and 0 for failure. Check out the error stack to find out the reason for failure.

SEE ALSO

[ssl\(3\)](#), [SSL_CTX_use_certificate\(3\)](#), [SSL_CTX_set_client_cert_cb\(3\)](#), [SSL_CTX_load_verify_locations\(3\)](#)
[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\(3\)](#)

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