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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'SSL\_CTX\_get\_extra\_chain\_certs.3ossl' command**

**`$ man SSL_CTX_get_extra_chain_certs.3ossl`**

`SSL_CTX_ADD_EXTRA_CHAIN_CERT(3ossl) OpenSSLSSL_CTX_ADD_EXTRA_CHAIN_CERT(3ossl)`

### NAME

SSL\_CTX\_add\_extra\_chain\_cert, SSL\_CTX\_get\_extra\_chain\_certs,  
SSL\_CTX\_get\_extra\_chain\_certs\_only, SSL\_CTX\_clear\_extra\_chain\_certs -  
add, get 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_get_extra_chain_certs(SSL_CTX *ctx, STACK_OF(X509) **sk);
```

```
long SSL_CTX_get_extra_chain_certs_only(SSL_CTX *ctx, STACK_OF(X509) **sk);
```

```
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\_get\_extra\_chain\_certs() retrieves the extra chain certificates associated with ctx, or the chain associated with the current certificate of ctx if the extra chain is empty. The returned stack

should not be freed by the caller.

`SSL_CTX_get_extra_chain_certs_only()` retrieves the extra chain certificates associated with `ctx`. The returned stack should not be freed by the caller.

`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(7), 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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