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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'SSL_get_max_cert_list.3ossl' command

`$ man SSL_get_max_cert_list.3ossl`

SSL_CTX_SET_MAX_CERT_LIST(3ossl) OpenSSL SSL_CTX_SET_MAX_CERT_LIST(3ossl)

NAME

SSL_CTX_set_max_cert_list, SSL_CTX_get_max_cert_list,
SSL_set_max_cert_list, SSL_get_max_cert_list - manipulate allowed size
for the peer's certificate chain

SYNOPSIS

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

long SSL_CTX_set_max_cert_list(SSL_CTX *ctx, long size);

long SSL_CTX_get_max_cert_list(SSL_CTX *ctx);

long SSL_set_max_cert_list(SSL *ssl, long size);

long SSL_get_max_cert_list(SSL *ctx);
```

DESCRIPTION

SSL_CTX_set_max_cert_list() sets the maximum size allowed for the peer's certificate chain for all SSL objects created from ctx to be <size> bytes. The SSL objects inherit the setting valid for ctx at the time SSL_new(3) is being called.

SSL_CTX_get_max_cert_list() returns the currently set maximum size for ctx.

SSL_set_max_cert_list() sets the maximum size allowed for the peer's certificate chain for ssl to be <size> bytes. This setting stays valid until a new value is set.

SSL_get_max_cert_list() returns the currently set maximum size for ssl.

NOTES

During the handshake process, the peer may send a certificate chain.

The TLS/SSL standard does not give any maximum size of the certificate chain. The OpenSSL library handles incoming data by a dynamically allocated buffer. In order to prevent this buffer from growing without bounds due to data received from a faulty or malicious peer, a maximum size for the certificate chain is set.

The default value for the maximum certificate chain size is 100kB (30kB on the 16-bit DOS platform). This should be sufficient for usual certificate chains (OpenSSL's default maximum chain length is 10, see `SSL_CTX_set_verify(3)`, and certificates without special extensions have a typical size of 1-2kB).

For special applications it can be necessary to extend the maximum certificate chain size allowed to be sent by the peer, see e.g. the work on "Internet X.509 Public Key Infrastructure Proxy Certificate Profile" and "TLS Delegation Protocol" at <http://www.ietf.org/> and <http://www.globus.org/>.

Under normal conditions it should never be necessary to set a value smaller than the default, as the buffer is handled dynamically and only uses the memory actually required by the data sent by the peer.

If the maximum certificate chain size allowed is exceeded, the handshake will fail with a `SSL_R_EXCESSIVE_MESSAGE_SIZE` error.

RETURN VALUES

`SSL_CTX_set_max_cert_list()` and `SSL_set_max_cert_list()` return the previously set value.

`SSL_CTX_get_max_cert_list()` and `SSL_get_max_cert_list()` return the currently set value.

SEE ALSO

`ssl(7)`, `SSL_new(3)`, `SSL_CTX_set_verify(3)`

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