

NAME

SSL_get_peer_certificate, SSL_get0_peer_certificate, SSL_get1_peer_certificate - get the X509 certificate of the peer

SYNOPSIS

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

```
X509 *SSL_get_peer_certificate(const SSL *ssl);  
X509 *SSL_get0_peer_certificate(const SSL *ssl);  
X509 *SSL_get1_peer_certificate(const SSL *ssl);
```

DESCRIPTION

These functions return a pointer to the X509 certificate the peer presented. If the peer did not present a certificate, NULL is returned.

NOTES

Due to the protocol definition, a TLS/SSL server will always send a certificate, if present. A client will only send a certificate when explicitly requested to do so by the server (see **SSL_CTX_set_verify(3)**). If an anonymous cipher is used, no certificates are sent.

That a certificate is returned does not indicate information about the verification state, use **SSL_get_verify_result(3)** to check the verification state.

The reference count of the X509 object returned by **SSL_get1_peer_certificate()** is incremented by one, so that it will not be destroyed when the session containing the peer certificate is freed. The X509 object must be explicitly freed using **X509_free()**.

The reference count of the X509 object returned by **SSL_get0_peer_certificate()** is not incremented, and must not be freed.

SSL_get_peer_certificate() is an alias of **SSL_get1_peer_certificate()**.

RETURN VALUES

The following return values can occur:

NULL

No certificate was presented by the peer or no connection was established.

Pointer to an X509 certificate

The return value points to the certificate presented by the peer.

SEE ALSO

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

HISTORY

`SSL_get0_peer_certificate()` and `SSL_get1_peer_certificate()` were added in 3.0.0.

`SSL_get_peer_certificate()` was deprecated in 3.0.0.

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