

NAME

SSL_set_shutdown, SSL_get_shutdown - manipulate shutdown state of an SSL connection

SYNOPSIS

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

```
void SSL_set_shutdown(SSL *ssl, int mode);
```

```
int SSL_get_shutdown(const SSL *ssl);
```

DESCRIPTION

SSL_set_shutdown() sets the shutdown state of **ssl** to **mode**.

SSL_get_shutdown() returns the shutdown mode of **ssl**.

NOTES

The shutdown state of an ssl connection is a bit-mask of:

0 No shutdown setting, yet.

SSL_SENT_SHUTDOWN

A close_notify shutdown alert was sent to the peer, the connection is being considered closed and the session is closed and correct.

SSL_RECEIVED_SHUTDOWN

A shutdown alert was received from the peer, either a normal close_notify or a fatal error.

SSL_SENT_SHUTDOWN and SSL_RECEIVED_SHUTDOWN can be set at the same time.

The shutdown state of the connection is used to determine the state of the ssl session. If the session is still open, when **SSL_clear(3)** or **SSL_free(3)** is called, it is considered bad and removed according to RFC2246. The actual condition for a correctly closed session is SSL_SENT_SHUTDOWN (according to the TLS RFC, it is acceptable to only send the close_notify alert but to not wait for the peer's answer, when the underlying connection is closed). **SSL_set_shutdown()** can be used to set this state without sending a close alert to the peer (see **SSL_shutdown(3)**).

If a close_notify was received, SSL_RECEIVED_SHUTDOWN will be set, for setting SSL_SENT_SHUTDOWN the application must however still call **SSL_shutdown(3)** or **SSL_set_shutdown()** itself.

RETURN VALUES

SSL_set_shutdown() does not return diagnostic information.

SSL_get_shutdown() returns the current setting.

SEE ALSO

ssl(7), **SSL_shutdown(3)**, **SSL_CTX_set_quiet_shutdown(3)**, **SSL_clear(3)**, **SSL_free(3)**

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