

NAME

SSL_set_fd, SSL_set_rfd, SSL_set_wfd - connect the SSL object with a file descriptor

SYNOPSIS

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

int SSL_set_fd(SSL *ssl, int fd);
int SSL_set_rfd(SSL *ssl, int fd);
int SSL_set_wfd(SSL *ssl, int fd);
```

DESCRIPTION

SSL_set_fd() sets the file descriptor **fd** as the input/output facility for the TLS/SSL (encrypted) side of **ssl**. **fd** will typically be the socket file descriptor of a network connection.

When performing the operation, a **socket BIO** is automatically created to interface between the **ssl** and **fd**. The BIO and hence the SSL engine inherit the behaviour of **fd**. If **fd** is non-blocking, the **ssl** will also have non-blocking behaviour.

If there was already a BIO connected to **ssl**, *BIO_free()* will be called (for both the reading and writing side, if different).

SSL_set_rfd() and *SSL_set_wfd()* perform the respective action, but only for the read channel or the write channel, which can be set independently.

RETURN VALUES

The following return values can occur:

- 0 The operation failed. Check the error stack to find out why.
- 1 The operation succeeded.

SEE ALSO

[SSL_get_fd\(3\)](#), [SSL_set_bio\(3\)](#), [SSL_connect\(3\)](#), [SSL_accept\(3\)](#), [SSL_shutdown\(3\)](#), [ssl\(3\)](#), [bio\(3\)](#)

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