

NAME

SSL_new, SSL_up_ref - create a new SSL structure for a connection

SYNOPSIS

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

SSL *SSL_new(SSL_CTX *ctx);
int SSL_up_ref(SSL *s);
```

DESCRIPTION

SSL_new() creates a new **SSL** structure which is needed to hold the data for a TLS/SSL connection. The new structure inherits the settings of the underlying context **ctx**: connection method, options, verification settings, timeout settings. An **SSL** structure is reference counted. Creating an **SSL** structure for the first time increments the reference count. Freeing it (using *SSL_free*) decrements it. When the reference count drops to zero, any memory or resources allocated to the **SSL** structure are freed. *SSL_up_ref()* increments the reference count for an existing **SSL** structure.

RETURN VALUES

The following return values can occur:

NULL

The creation of a new SSL structure failed. Check the error stack to find out the reason.

Pointer to an SSL structure

The return value points to an allocated SSL structure.

SSL_up_ref() returns 1 for success and 0 for failure.

SEE ALSO

[SSL_free\(3\)](#), [SSL_clear\(3\)](#), [SSL_CTX_set_options\(3\)](#), [SSL_get_SSL_CTX\(3\)](#), [ssl\(3\)](#)

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