

NAME

SSL_CTX_set_ssl_version, SSL_CTX_get_ssl_method, SSL_set_ssl_method, SSL_get_ssl_method - choose a new TLS/SSL method

SYNOPSIS

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

```
int SSL_CTX_set_ssl_version(SSL_CTX *ctx, const SSL_METHOD *method);  
const SSL_METHOD *SSL_CTX_get_ssl_method(const SSL_CTX *ctx);
```

```
int SSL_set_ssl_method(SSL *s, const SSL_METHOD *method);  
const SSL_METHOD *SSL_get_ssl_method(const SSL *ssl);
```

DESCRIPTION

SSL_CTX_set_ssl_version() sets a new default TLS/SSL **method** for SSL objects newly created from this **ctx**. Most of the configuration attached to the SSL_CTX object is retained, with the exception of the configured TLS ciphers, which are reset to the default values. SSL objects already created from this SSL_CTX with **SSL_new(3)** are not affected, except when **SSL_clear(3)** is being called, as described below.

SSL_CTX_get_ssl_method() returns the SSL_METHOD which was used to construct the SSL_CTX.

SSL_set_ssl_method() sets a new TLS/SSL **method** for a particular **ssl** object. It may be reset, when **SSL_clear()** is called.

SSL_get_ssl_method() returns a pointer to the TLS/SSL method set in **ssl**.

NOTES

The available **method** choices are described in **SSL_CTX_new(3)**.

When **SSL_clear(3)** is called and no session is connected to an SSL object, the method of the SSL object is reset to the method currently set in the corresponding SSL_CTX object.

SSL_CTX_set_version() has unusual semantics and no clear use case; it would usually be preferable to create a new SSL_CTX object than to try to reuse an existing one in this fashion. Its usage is considered deprecated.

RETURN VALUES

The following return values can occur for **SSL_CTX_set_ssl_version()** and **SSL_set_ssl_method()**:

0 The new choice failed, check the error stack to find out the reason.

1 The operation succeeded.

SSL_CTX_get_ssl_method() and **SSL_get_ssl_method()** always return non-NULL pointers.

SEE ALSO

SSL_CTX_new(3), **SSL_new(3)**, **SSL_clear(3)**, **ssl(7)**, **SSL_set_connect_state(3)**

HISTORY

SSL_CTX_set_ssl_version() was deprecated in OpenSSL 3.0.

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