

**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()**:

SSL\_CTX\_SET\_SSL\_VERSION(3ossl)      OpenSSL      SSL\_CTX\_SET\_SSL\_VERSION(3ossl)

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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