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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'SSL\_CTX\_get\_ssl\_method.3ossl' command**

**`$ man SSL_CTX_get_ssl_method.3ossl`**

`SSL_CTX_SET_SSL_VERSION(3ossl) OpenSSL SSL_CTX_SET_SSL_VERSION(3ossl)`

### 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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