

**NAME**

SSL\_CTX\_add\_session, SSL\_add\_session, SSL\_CTX\_remove\_session, SSL\_remove\_session - manipulate session cache

**SYNOPSIS**

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

int SSL_CTX_add_session(SSL_CTX *ctx, SSL_SESSION *c);
int SSL_add_session(SSL_CTX *ctx, SSL_SESSION *c);

int SSL_CTX_remove_session(SSL_CTX *ctx, SSL_SESSION *c);
int SSL_remove_session(SSL_CTX *ctx, SSL_SESSION *c);
```

**DESCRIPTION**

*SSL\_CTX\_add\_session()* adds the session **c** to the context **ctx**. The reference count for session **c** is incremented by 1. If a session with the same session id already exists, the old session is removed by calling [SSL\\_SESSION\\_free\(3\)](#).

*SSL\_CTX\_remove\_session()* removes the session **c** from the context **ctx**. [SSL\\_SESSION\\_free\(3\)](#) is called once for **c**.

*SSL\_add\_session()* and *SSL\_remove\_session()* are synonyms for their *SSL\_CTX\_\**(**c**) counterparts.

**NOTES**

When adding a new session to the internal session cache, it is examined whether a session with the same session id already exists. In this case it is assumed that both sessions are identical. If the same session is stored in a different *SSL\_SESSION* object, The old session is removed and replaced by the new session. If the session is actually identical (the *SSL\_SESSION* object is identical), *SSL\_CTX\_add\_session()* is a no-op, and the return value is 0.

If a server *SSL\_CTX* is configured with the *SSL\_SESS\_CACHE\_NO\_INTERNAL\_STORE* flag then the internal cache will not be populated automatically by new sessions negotiated by the SSL/TLS implementation, even though the internal cache will be searched automatically for session-resume requests (the latter can be suppressed by *SSL\_SESS\_CACHE\_NO\_INTERNAL\_LOOKUP*). So the application can use *SSL\_CTX\_add\_session()* directly to have full control over the sessions that can be resumed if desired.

**RETURN VALUES**

The following values are returned by all functions:

0

The operation failed. In case of the add operation, it was tried to add the same (identical) session twice. In case of the remove operation, the session was not found in the cache.

1

The operation succeeded.

**SEE ALSO**

[ssl\(3\)](#), [SSL\\_CTX\\_set\\_session\\_cache\\_mode\(3\)](#), [SSL\\_SESSION\\_free\(3\)](#)

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