NAME

SSL_load_client_CA_file_ex, SSL_load_client_CA_file, SSL_add_file_cert_subjects_to_stack, SSL_add_dir_cert_subjects_to_stack, SSL_add_store_cert_subjects_to_stack - load certificate names

SYNOPSIS

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

STACK_OF(X509_NAME) *SSL_load_client_CA_file_ex(const char *file,
                              OSSL_LIB_CTX *libctx,
                              const char *propq);
STACK_OF(X509_NAME) *SSL_load_client_CA_file(const char *file);

int SSL_add_file_cert_subjects_to_stack(STACK_OF(X509_NAME) *stack,
                          const char *file);
int SSL_add_dir_cert_subjects_to_stack(STACK_OF(X509_NAME) *stack,
                          const char *dir);
int SSL_add_store_cert_subjects_to_stack(STACK_OF(X509_NAME) *stack,
                          const char *store);
```

DESCRIPTION

SSL_load_client_CA_file_ex() reads certificates from *file* and returns a STACK_OF(X509_NAME) with the subject names found. The library context *libctx* and property query *propq* are used when fetching algorithms from providers.

SSL_load_client_CA_file() is similar to **SSL_load_client_CA_file_ex()** but uses NULL for the library context *libctx* and property query *propq*.

SSL_add_file_cert_subjects_to_stack() reads certificates from *file*, and adds their subject name to the already existing *stack*.

SSL_add_dir_cert_subjects_to_stack() reads certificates from every file in the directory *dir*, and adds their subject name to the already existing *stack*.

SSL_add_store_cert_subjects_to_stack() loads certificates from the *store* URI, and adds their subject name to the already existing *stack*.

NOTES

SSL_load_client_CA_file() reads a file of PEM formatted certificates and extracts the X509_NAMES of the certificates found. While the name suggests the specific usage as support function for **SSL_CTX_set_client_CA_list**(3), it is not limited to CA certificates.

RETURN VALUES

The following return values can occur:

NULL

The operation failed, check out the error stack for the reason.

Pointer to STACK_OF(X509_NAME)

Pointer to the subject names of the successfully read certificates.

EXAMPLES

Load names of CAs from file and use it as a client CA list:

```
SSL_CTX *ctx;
STACK_OF(X509_NAME) *cert_names;

...
cert_names = SSL_load_client_CA_file("/path/to/CAfile.pem");
if (cert_names != NULL)
    SSL_CTX_set_client_CA_list(ctx, cert_names);
else
    /* error */
...
```

SEE ALSO

ssl(7), **ossl_store**(7), **SSL_CTX_set_client_CA_list**(3)

HISTORY

SSL_load_client_CA_file_ex() and **SSL_add_store_cert_subjects_to_stack()** were added in OpenSSL 3.0.

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