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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'SSL_load_client_CA_file_ex.3ossl' command

`$ man SSL_load_client_CA_file_ex.3ossl`

`SSL_LOAD_CLIENT_CA_FILE(3ossl) OpenSSL SSL_LOAD_CLIENT_CA_FILE(3ossl)`

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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