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***Rocky Enterprise Linux 9.2 Manual Pages on command 'SSL\_load\_client\_CA\_file\_ex.3ossl'***

***\$ 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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3.0.7

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