

NAME

CTLOG_STORE_new_ex, CTLOG_STORE_new, CTLOG_STORE_free,
 CTLOG_STORE_load_default_file, CTLOG_STORE_load_file - Create and populate a Certificate
 Transparency log list

SYNOPSIS

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

```
CTLOG_STORE *CTLOG_STORE_new_ex(OSSL_LIB_CTX *libctx, const char *propq);
```

```
CTLOG_STORE *CTLOG_STORE_new(void);
```

```
void CTLOG_STORE_free(CTLOG_STORE *store);
```

```
int CTLOG_STORE_load_default_file(CTLOG_STORE *store);
```

```
int CTLOG_STORE_load_file(CTLOG_STORE *store, const char *file);
```

DESCRIPTION

A CTLOG_STORE is a container for a list of CTLOGs (Certificate Transparency logs). The list can be loaded from one or more files and then searched by LogID (see RFC 6962, Section 3.2, for the definition of a LogID).

CTLOG_STORE_new_ex() creates an empty list of CT logs associated with the library context *libctx* and the property query string *propq*.

CTLOG_STORE_new() does the same thing as **CTLOG_STORE_new_ex()** but with the default library context and property query string.

The CTLOG_STORE is then populated by **CTLOG_STORE_load_default_file()** or **CTLOG_STORE_load_file()**. **CTLOG_STORE_load_default_file()** loads from the default file, which is named *ct_log_list.cnf* in OPENSSLDIR (see the output of **openssl-version(1)**). This can be overridden using an environment variable named **CTLOG_FILE**. **CTLOG_STORE_load_file()** loads from a caller-specified file path instead. Both of these functions append any loaded CT logs to the CTLOG_STORE.

The expected format of the file is:

```
enabled_logs=foo,bar
```

```
[foo]
```

```
description = Log 1
```

```
key = <base64-encoded DER SubjectPublicKeyInfo here>
```

```
[bar]
description = Log 2
key = <base64-encoded DER SubjectPublicKeyInfo here>
```

Once a CTLOG_STORE is no longer required, it should be passed to **CTLOG_STORE_free()**. This will delete all of the CTLOGs stored within, along with the CTLOG_STORE itself.

NOTES

If there are any invalid CT logs in a file, they are skipped and the remaining valid logs will still be added to the CTLOG_STORE. A CT log will be considered invalid if it is missing a "key" or "description" field.

RETURN VALUES

Both **CTLOG_STORE_load_default_file** and **CTLOG_STORE_load_file** return 1 if all CT logs in the file are successfully parsed and loaded, 0 otherwise.

SEE ALSO

ct(7), **CTLOG_STORE_get0_log_by_id(3)**, **SSL_CTX_set_ctlog_list_file(3)**

HISTORY

CTLOG_STORE_new_ex was added in OpenSSL 3.0. All other functions were added in OpenSSL 1.1.0.

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