

NAME

OSSL_STORE_expect, OSSL_STORE_supports_search, OSSL_STORE_find - Specify what object type is expected

SYNOPSIS

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

```
int OSSL_STORE_expect(OSSL_STORE_CTX *ctx, int expected_type);
```

```
int OSSL_STORE_supports_search(OSSL_STORE_CTX *ctx, int criterion_type);
```

```
int OSSL_STORE_find(OSSL_STORE_CTX *ctx, OSSL_STORE_SEARCH *search);
```

DESCRIPTION

OSSL_STORE_expect() helps applications filter what **OSSL_STORE_load()** returns by specifying a **OSSL_STORE_INFO** type. By default, no expectations on the types of objects to be loaded are made. *expected_type* may be 0 to indicate explicitly that no expectation is made, or it may be any of the known object types (see "SUPPORTED OBJECTS" in **OSSL_STORE_INFO(3)**) except for **OSSL_STORE_INFO_NAME**. For example, if "file:/foo/bar/store.pem" contains several objects of different type and only certificates are interesting, the application can simply say that it expects the type **OSSL_STORE_INFO_CERT**.

OSSL_STORE_find() helps applications specify a criterion for a more fine grained search of objects.

OSSL_STORE_supports_search() checks if the loader of the given OSSL_STORE context supports the given search type. See "SUPPORTED CRITERION TYPES" in **OSSL_STORE_SEARCH(3)** for information on the supported search criterion types.

OSSL_STORE_expect() and **OSSL_STORE_find** *must* be called before the first **OSSL_STORE_load()** of a given session, or they will fail.

NOTES

If a more elaborate filter is required by the application, a better choice would be to use a post-processing function. See **OSSL_STORE_open(3)** for more information.

However, some loaders may take advantage of the knowledge of an expected type to make object retrieval more efficient, so if a single type is expected, this method is usually preferable.

RETURN VALUES

OSSL_STORE_expect() returns 1 on success, or 0 on failure.

OSSL_STORE_supports_search() returns 1 if the criterion is supported, or 0 otherwise.

OSSL_STORE_find() returns 1 on success, or 0 on failure.

SEE ALSO

ossl_store(7), **OSSL_STORE_INFO(3)**, **OSSL_STORE_SEARCH(3)**, **OSSL_STORE_load(3)**

HISTORY

OSSL_STORE_expect(), **OSSL_STORE_supports_search()** and **OSSL_STORE_find()** were added in OpenSSL 1.1.1.

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