**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.

**COPYRIGHT**