

**NAME**

CRYPTO\_set\_ex\_data, CRYPTO\_get\_ex\_data - internal application specific data functions

**SYNOPSIS**

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

```
int CRYPTO_set_ex_data(CRYPTO_EX_DATA *r, int idx, void *arg);
```

```
void *CRYPTO_get_ex_data(CRYPTO_EX_DATA *r, int idx);
```

**DESCRIPTION**

Several OpenSSL structures can have application specific data attached to them. These functions are used internally by OpenSSL to manipulate application specific data attached to a specific structure.

These functions should only be used by applications to manipulate **CRYPTO\_EX\_DATA** structures passed to the *new\_func()*, *free\_func()* and *dup\_func()* callbacks: as passed to *RSA\_get\_ex\_new\_index()* for example.

*CRYPTO\_set\_ex\_data()* is used to set application specific data, the data is supplied in the **arg** parameter and its precise meaning is up to the application.

*CRYPTO\_get\_ex\_data()* is used to retrieve application specific data. The data is returned to the application, this will be the same value as supplied to a previous *CRYPTO\_set\_ex\_data()* call.

**RETURN VALUES**

*CRYPTO\_set\_ex\_data()* returns 1 on success or 0 on failure.

*CRYPTO\_get\_ex\_data()* returns the application data or 0 on failure. 0 may also be valid application data but currently it can only fail if given an invalid **idx** parameter.

On failure an error code can be obtained from *ERR\_get\_error(3)*.

**SEE ALSO**

*RSA\_get\_ex\_new\_index(3)*, *DSA\_get\_ex\_new\_index(3)*, *DH\_get\_ex\_new\_index(3)*

**HISTORY**

*CRYPTO\_set\_ex\_data()* and *CRYPTO\_get\_ex\_data()* have been available since SSLeay 0.9.0.