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***Rocky Enterprise Linux 9.2 Manual Pages on command 'SSL\_CTX\_set\_app\_data.3ossl'***

***\$ man SSL\_CTX\_set\_app\_data.3ossl***

BIO\_GET\_EX\_NEW\_INDEX(3ossl)    OpenSSL    BIO\_GET\_EX\_NEW\_INDEX(3ossl)

NAME

BIO\_get\_ex\_new\_index, BIO\_set\_ex\_data, BIO\_get\_ex\_data,  
BIO\_set\_app\_data, BIO\_get\_app\_data, DH\_get\_ex\_new\_index,  
DH\_set\_ex\_data, DH\_get\_ex\_data, DSA\_get\_ex\_new\_index, DSA\_set\_ex\_data,  
DSA\_get\_ex\_data, EC\_KEY\_get\_ex\_new\_index, EC\_KEY\_set\_ex\_data,  
EC\_KEY\_get\_ex\_data, ENGINE\_get\_ex\_new\_index, ENGINE\_set\_ex\_data,  
ENGINE\_get\_ex\_data, EVP\_PKEY\_get\_ex\_new\_index, EVP\_PKEY\_set\_ex\_data,  
EVP\_PKEY\_get\_ex\_data, RSA\_get\_ex\_new\_index, RSA\_set\_ex\_data,  
RSA\_get\_ex\_data, RSA\_set\_app\_data, RSA\_get\_app\_data,  
SSL\_get\_ex\_new\_index, SSL\_set\_ex\_data, SSL\_get\_ex\_data,  
SSL\_set\_app\_data, SSL\_get\_app\_data, SSL\_CTX\_get\_ex\_new\_index,  
SSL\_CTX\_set\_ex\_data, SSL\_CTX\_get\_ex\_data, SSL\_CTX\_set\_app\_data,  
SSL\_CTX\_get\_app\_data, SSL\_SESSION\_get\_ex\_new\_index,  
SSL\_SESSION\_set\_ex\_data, SSL\_SESSION\_get\_ex\_data,  
SSL\_SESSION\_set\_app\_data, SSL\_SESSION\_get\_app\_data,  
UI\_get\_ex\_new\_index, UI\_set\_ex\_data, UI\_get\_ex\_data, UI\_set\_app\_data,

UI\_get\_app\_data, X509\_STORE\_CTX\_get\_ex\_new\_index,  
X509\_STORE\_CTX\_set\_ex\_data, X509\_STORE\_CTX\_get\_ex\_data,  
X509\_STORE\_CTX\_set\_app\_data, X509\_STORE\_CTX\_get\_app\_data,  
X509\_STORE\_get\_ex\_new\_index, X509\_STORE\_set\_ex\_data,  
X509\_STORE\_get\_ex\_data, X509\_get\_ex\_new\_index, X509\_set\_ex\_data,  
X509\_get\_ex\_data - application-specific data

## SYNOPSIS

```
#include <openssl/x509.h>
```

```
int TYPE_get_ex_new_index(long argl, void *argp,  
                          CRYPTO_EX_new *new_func,  
                          CRYPTO_EX_dup *dup_func,  
                          CRYPTO_EX_free *free_func);
```

```
int TYPE_set_ex_data(TYPE *d, int idx, void *arg);
```

```
void *TYPE_get_ex_data(const TYPE *d, int idx);
```

```
#define TYPE_set_app_data(TYPE *d, void *arg)
```

```
#define TYPE_get_app_data(TYPE *d)
```

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining `OPENSSL_API_COMPAT` with a suitable version value, see `openssl_user_macros(7)`:

```
int DH_get_ex_new_index(long argl, void *argp, CRYPTO_EX_new *new_func,  
                        CRYPTO_EX_dup *dup_func, CRYPTO_EX_free *free_func);
```

```
int DH_set_ex_data(DH *type, int idx, void *arg);
```

```
void *DH_get_ex_data(DH *type, int idx);
```

```
int DSA_get_ex_new_index(long argl, void *argp, CRYPTO_EX_new *new_func,  
                        CRYPTO_EX_dup *dup_func, CRYPTO_EX_free *free_func);
```

```
int DSA_set_ex_data(DSA *type, int idx, void *arg);
```

```

void *DSA_get_ex_data(DSA *type, int idx);
int EC_KEY_get_ex_new_index(long argl, void *argp, CRYPTO_EX_new *new_func,
    CRYPTO_EX_dup *dup_func, CRYPTO_EX_free *free_func);
int EC_KEY_set_ex_data(EC_KEY *type, int idx, void *arg);
void *EC_KEY_get_ex_data(EC_KEY *type, int idx);
int RSA_get_ex_new_index(long argl, void *argp, CRYPTO_EX_new *new_func,
    CRYPTO_EX_dup *dup_func, CRYPTO_EX_free *free_func);
int RSA_set_ex_data(RSA *type, int idx, void *arg);
void *RSA_get_ex_data(RSA *type, int idx);
int RSA_set_app_data(RSA *type, void *arg);
void *RSA_get_app_data(RSA *type);
int ENGINE_get_ex_new_index(long argl, void *argp, CRYPTO_EX_new *new_func,
    CRYPTO_EX_dup *dup_func, CRYPTO_EX_free *free_func);
int ENGINE_set_ex_data(ENGINE *type, int idx, void *arg);
void *ENGINE_get_ex_data(ENGINE *type, int idx);

```

## DESCRIPTION

In the description here, TYPE is used a placeholder for any of the OpenSSL datatypes listed in CRYPTO\_get\_ex\_new\_index(3).

All functions with a TYPE of DH, DSA, RSA and EC\_KEY are deprecated. Applications should instead use EVP\_PKEY\_set\_ex\_data(), EVP\_PKEY\_get\_ex\_data() and EVP\_PKEY\_get\_ex\_new\_index().

All functions with a TYPE of ENGINE are deprecated. Applications using engines should be replaced by providers.

These functions handle application-specific data for OpenSSL data structures.

TYPE\_get\_ex\_new\_index() is a macro that calls CRYPTO\_get\_ex\_new\_index() with the correct index value.

TYPE\_set\_ex\_data() is a function that calls CRYPTO\_set\_ex\_data() with an offset into the opaque exdata part of the TYPE object.

TYPE\_get\_ex\_data() is a function that calls CRYPTO\_get\_ex\_data() with an offset into the opaque exdata part of the TYPE object.

For compatibility with previous releases, the exdata index of zero is reserved for "application data." There are two convenience functions for this. TYPE\_set\_app\_data() is a macro that invokes TYPE\_set\_ex\_data() with idx set to zero. TYPE\_get\_app\_data() is a macro that invokes TYPE\_get\_ex\_data() with idx set to zero.

## RETURN VALUES

TYPE\_get\_ex\_new\_index() returns a new index on success or -1 on error.

TYPE\_set\_ex\_data() returns 1 on success or 0 on error.

TYPE\_get\_ex\_data() returns the application data or NULL if an error occurred.

## SEE ALSO

CRYPTO\_get\_ex\_new\_index(3).

## HISTORY

The functions DH\_get\_ex\_new\_index(), DH\_set\_ex\_data(), DH\_get\_ex\_data(), DSA\_get\_ex\_new\_index(), DSA\_set\_ex\_data(), DSA\_get\_ex\_data(), EC\_KEY\_get\_ex\_new\_index(), EC\_KEY\_set\_ex\_data(), EC\_KEY\_get\_ex\_data(), ENGINE\_get\_ex\_new\_index(), ENGINE\_set\_ex\_data(), ENGINE\_get\_ex\_data(), RSA\_get\_ex\_new\_index(), RSA\_set\_ex\_data(), RSA\_get\_ex\_data(), RSA\_set\_app\_data() and RSA\_get\_app\_data() were deprecated in OpenSSL 3.0.

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