

NAME

`EVP_CIPHER_CTX_get_cipher_data`, `EVP_CIPHER_CTX_set_cipher_data` – Routines to inspect and modify `EVP_CIPHER_CTX` objects

SYNOPSIS

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

```
void *EVP_CIPHER_CTX_get_cipher_data(const EVP_CIPHER_CTX *ctx);  
void *EVP_CIPHER_CTX_set_cipher_data(EVP_CIPHER_CTX *ctx, void *cipher_data);
```

DESCRIPTION

The **`EVP_CIPHER_CTX_get_cipher_data()`** function returns a pointer to the cipher data relevant to `EVP_CIPHER_CTX`. The contents of this data is specific to the particular implementation of the cipher. For example this data can be used by engines to store engine specific information. The data is automatically allocated and freed by OpenSSL, so applications and engines should not normally free this directly (but see below).

The **`EVP_CIPHER_CTX_set_cipher_data()`** function allows an application or engine to replace the cipher data with new data. A pointer to any existing cipher data is returned from this function. If the old data is no longer required then it should be freed through a call to **`OPENSSL_free()`**.

RETURN VALUES

The **`EVP_CIPHER_CTX_get_cipher_data()`** function returns a pointer to the current cipher data for the `EVP_CIPHER_CTX`.

The **`EVP_CIPHER_CTX_set_cipher_data()`** function returns a pointer to the old cipher data for the `EVP_CIPHER_CTX`.

HISTORY

The **`EVP_CIPHER_CTX_get_cipher_data()`** and **`EVP_CIPHER_CTX_set_cipher_data()`** functions were added in OpenSSL 1.1.0.

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