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## Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP\_CIPHER\_CTX\_get\_cipher\_data.3openssl' command

```
$ man EVP_CIPHER_CTX_get_cipher_data.3openssl
```

```
EVP_CIPHER_CTX_GET_CIPHER_DATA(3openssl)OpenSEVP_CIPHER_CTX_GET_CIPHER_DATA(3openssl)
```

### 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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