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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP\_sm4\_ctr.3oss1' command***

***\$ man EVP\_sm4\_ctr.3oss1***

EVP\_SM4\_CBC(3oss1)            OpenSSL            EVP\_SM4\_CBC(3oss1)

### NAME

EVP\_sm4\_cbc, EVP\_sm4\_ecb, EVP\_sm4\_cfb, EVP\_sm4\_cfb128, EVP\_sm4\_ofb,  
EVP\_sm4\_ctr - EVP SM4 cipher

### SYNOPSIS

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

```
const EVP_CIPHER *EVP_sm4_cbc(void);  
const EVP_CIPHER *EVP_sm4_ecb(void);  
const EVP_CIPHER *EVP_sm4_cfb(void);  
const EVP_CIPHER *EVP_sm4_cfb128(void);  
const EVP_CIPHER *EVP_sm4_ofb(void);  
const EVP_CIPHER *EVP_sm4_ctr(void);
```

### DESCRIPTION

The SM4 blockcipher (GB/T 32907-2016) for EVP.

All modes below use a key length of 128 bits and acts on blocks of 128 bits.

EVP\_sm4\_cbc(), EVP\_sm4\_ecb(), EVP\_sm4\_cfb(), EVP\_sm4\_cfb128(),

EVP\_sm4\_ofb(), EVP\_sm4\_ctr()

The SM4 blockcipher with a 128-bit key in CBC, ECB, CFB, OFB and CTR modes respectively.

## RETURN VALUES

These functions return a EVP\_CIPHER structure that contains the implementation of the symmetric cipher. See EVP\_CIPHER\_meth\_new(3) for details of the EVP\_CIPHER structure.

## SEE ALSO

evp(7), EVP\_EncryptInit(3), EVP\_CIPHER\_meth\_new(3)

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