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***Rocky Enterprise Linux 9.2 Manual Pages on command 'EVP\_sm4\_ctr.3ossl'***

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

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

**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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