



*Full credit is given to the above companies including the OS that this PDF file was generated!*

**Rocky Enterprise Linux 9.2 Manual Pages on command 'OSSL\_CRMF\_CERTID\_get0\_serialNumber.3ossl'**

```
$ man OSSL_CRMF_CERTID_get0_serialNumber.3ossl
```

```
OSSL_CRMF_MSG_GET0_TMPL(3ossl)  OpenSSL  OSSL_CRMF_MSG_GET0_TMPL(3ossl)
```

#### NAME

OSSL\_CRMF\_MSG\_get0\_tmpl, OSSL\_CRMF\_CERTTEMPLATE\_get0\_serialNumber,  
OSSL\_CRMF\_CERTTEMPLATE\_get0\_subject,  
OSSL\_CRMF\_CERTTEMPLATE\_get0\_issuer,  
OSSL\_CRMF\_CERTTEMPLATE\_get0\_extensions,  
OSSL\_CRMF\_CERTID\_get0\_serialNumber, OSSL\_CRMF\_CERTID\_get0\_issuer,  
OSSL\_CRMF\_ENCRYPTEDVALUE\_get1\_encCert, OSSL\_CRMF\_MSG\_get\_certReqId -  
functions reading from CRMF CertReqMsg structures

#### SYNOPSIS

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

```
OSSL_CRMF_CERTTEMPLATE *OSSL_CRMF_MSG_get0_tmpl(const OSSL_CRMF_MSG *crm);  
const ASN1_INTEGER  
*OSSL_CRMF_CERTTEMPLATE_get0_serialNumber(const OSSL_CRMF_CERTTEMPLATE *tmpl);  
const X509_NAME
```

```

*OSSL_CRMF_CERTTEMPLATE_get0_subject(const OSSL_CRMF_CERTTEMPLATE *tmpl);
const X509_NAME

*OSSL_CRMF_CERTTEMPLATE_get0_issuer(const OSSL_CRMF_CERTTEMPLATE *tmpl);
X509_EXTENSIONS

*OSSL_CRMF_CERTTEMPLATE_get0_extensions(const OSSL_CRMF_CERTTEMPLATE *tmpl);

const ASN1_INTEGER

*OSSL_CRMF_CERTID_get0_serialNumber(const OSSL_CRMF_CERTID *cid);
const X509_NAME *OSSL_CRMF_CERTID_get0_issuer(const OSSL_CRMF_CERTID *cid);

X509

*OSSL_CRMF_ENCRYPTEDVALUE_get1_encCert(const OSSL_CRMF_ENCRYPTEDVALUE *ecert,
                                       OSSL_LIB_CTX *libctx, const char *propq,
                                       EVP_PKEY *pkey);

int OSSL_CRMF_MSG_get_certReqId(const OSSL_CRMF_MSG *crm);

```

## DESCRIPTION

`OSSL_CRMF_MSG_get0_tmpl()` retrieves the certificate template of `crm`.

`OSSL_CRMF_CERTTEMPLATE_get0_serialNumber()` retrieves the `serialNumber` of the given certificate template `tmpl`.

`OSSL_CRMF_CERTTEMPLATE_get0_subject()` retrieves the subject name of the given certificate template `tmpl`.

`OSSL_CRMF_CERTTEMPLATE_get0_issuer()` retrieves the issuer name of the given certificate template `tmpl`.

`OSSL_CRMF_CERTTEMPLATE_get0_extensions()` retrieves the X.509 extensions of the given certificate template `tmpl`, or `NULL` if not present.

`OSSL_CRMF_CERTID_get0_serialNumber` retrieves the `serialNumber` of the

given CertId cid.

OSSL\_CRMF\_CERTID\_get0\_issuer retrieves the issuer name of the given CertId cid, which must be of ASN.1 type GEN\_DIRNAME.

OSSL\_CRMF\_ENCRYPTEDVALUE\_get1\_encCert() decrypts the certificate in the given encryptedValue ecert, using the private key pkey, library context libctx and property query string propq (see OSSL\_LIB\_CTX(3)). This is needed for the indirect POPO method as in RFC 4210 section 5.2.8.2. The function returns the decrypted certificate as a copy, leaving its ownership with the caller, who is responsible for freeing it.

OSSL\_CRMF\_MSG\_get\_certReqId() retrieves the certReqId of crm.

## RETURN VALUES

OSSL\_CRMF\_MSG\_get\_certReqId() returns the certificate request ID as a nonnegative integer or -1 on error.

All other functions return a pointer with the intended result or NULL on error.

## SEE ALSO

RFC 4211

## HISTORY

The OpenSSL CRMF support was added in OpenSSL 3.0.

## COPYRIGHT

Copyright 2007-2021 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at

<<https://www.openssl.org/source/license.html>>.

3.0.7

2023-07-13 OSSL\_CRMF\_MSG\_GET0\_TMPL(3ossl)