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**Rocky Enterprise Linux 9.2 Manual Pages on command 'OSSL\_CRMF\_ENCRYPTEDVALUE\_get1\_encCert.3ossl**

**\$ man OSSL\_CRMF\_ENCRYPTEDVALUE\_get1\_encCert.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.

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