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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'OSSL_CRMF_MSG_get0_tmpl.3oss1' command

```
$ man OSSL_CRMF_MSG_get0_tmpl.3oss1
```

```
OSSL_CRMF_MSG_GET0_TMPL(3oss1)  OpenSSL  OSSL_CRMF_MSG_GET0_TMPL(3oss1)
```

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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