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Rocky Enterprise Linux 9.2 Manual Pages on command 'OSSL_CRMF_MSG_get0_regCtrl_protocolEncrKey.3ossl'

```
$ man OSSL_CRMF_MSG_get0_regCtrl_protocolEncrKey.3ossl
```

```
OSSL_CRMF_MSG_SET1_REGCTRL_REGTOKEN(OSSL_CRMF_MSG_SET1_REGCTRL_REGTOKEN(3ossl)
```

NAME

```
OSSL_CRMF_MSG_get0_regCtrl_regToken,  
OSSL_CRMF_MSG_set1_regCtrl_regToken,  
OSSL_CRMF_MSG_get0_regCtrl_authenticator,  
OSSL_CRMF_MSG_set1_regCtrl_authenticator,  
OSSL_CRMF_MSG_PKIPublicationInfo_push0_SinglePubInfo,  
OSSL_CRMF_MSG_set0_SinglePubInfo,  
OSSL_CRMF_MSG_set_PKIPublicationInfo_action,  
OSSL_CRMF_MSG_get0_regCtrl_pkiPublicationInfo,  
OSSL_CRMF_MSG_set1_regCtrl_pkiPublicationInfo,  
OSSL_CRMF_MSG_get0_regCtrl_protocolEncrKey,  
OSSL_CRMF_MSG_set1_regCtrl_protocolEncrKey,  
OSSL_CRMF_MSG_get0_regCtrl_oldCertID,  
OSSL_CRMF_MSG_set1_regCtrl_oldCertID, OSSL_CRMF_CERTID_gen - functions  
getting or setting CRMF Registration Controls
```

SYNOPSIS

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

```
ASN1_UTF8STRING
```

```
*OSSL_CRMF_MSG_get0_regCtrl_regToken(const OSSL_CRMF_MSG *msg);
```

```
int OSSL_CRMF_MSG_set1_regCtrl_regToken(OSSL_CRMF_MSG *msg,  
                                         const ASN1_UTF8STRING *tok);
```

```
ASN1_UTF8STRING
```

```
*OSSL_CRMF_MSG_get0_regCtrl_authenticator(const OSSL_CRMF_MSG *msg);
```

```
int OSSL_CRMF_MSG_set1_regCtrl_authenticator(OSSL_CRMF_MSG *msg,  
                                             const ASN1_UTF8STRING *auth);
```

```
int OSSL_CRMF_MSG_PKIPublicationInfo_push0_SinglePubInfo(  
    OSSL_CRMF_PKIPUBLICATIONINFO *pi,
```

```
    OSSL_CRMF_SINGLEPUBINFO *spi);
```

```
int OSSL_CRMF_MSG_set0_SinglePubInfo(OSSL_CRMF_SINGLEPUBINFO *spi,  
                                     int method, GENERAL_NAME *nm);
```

```
int OSSL_CRMF_MSG_set_PKIPublicationInfo_action(  
    OSSL_CRMF_PKIPUBLICATIONINFO *pi, int action);
```

```
OSSL_CRMF_PKIPUBLICATIONINFO
```

```
*OSSL_CRMF_MSG_get0_regCtrl_pkiPublicationInfo(const OSSL_CRMF_MSG *msg);
```

```
int OSSL_CRMF_MSG_set1_regCtrl_pkiPublicationInfo(OSSL_CRMF_MSG *msg,  
                                                  const OSSL_CRMF_PKIPUBLICATIONINFO *pi);
```

```
X509_PUBKEY
```

```
*OSSL_CRMF_MSG_get0_regCtrl_protocolEncrKey(const OSSL_CRMF_MSG *msg);
```

```
int OSSL_CRMF_MSG_set1_regCtrl_protocolEncrKey(OSSL_CRMF_MSG *msg,  
                                             const X509_PUBKEY *pubkey);
```

```
OSSL_CRMF_CERTID
```

```
*OSSL_CRMF_MSG_get0_regCtrl_oldCertID(const OSSL_CRMF_MSG *msg);
```

```
int OSSL_CRMF_MSG_set1_regCtrl_oldCertID(OSSL_CRMF_MSG *msg,  
                                         const OSSL_CRMF_CERTID *cid);
```

```
OSSL_CRMF_CERTID *OSSL_CRMF_CERTID_gen(const X509_NAME *issuer,  
                                         const ASN1_INTEGER *serial);
```

DESCRIPTION

Each of the `OSSL_CRMF_MSG_get0_regCtrl_X()` functions returns the respective control X in the given msg, if present.

`OSSL_CRMF_MSG_set1_regCtrl_regToken()` sets the `regToken` control in the given msg copying the given tok as value. See RFC 4211, section 6.1.

`OSSL_CRMF_MSG_set1_regCtrl_authenticator()` sets the `authenticator` control in the given msg copying the given auth as value. See RFC 4211, section 6.2.

`OSSL_CRMF_MSG_PKIPublicationInfo_push0_SinglePubInfo()` pushes the given spi to si. Consumes the spi pointer.

`OSSL_CRMF_MSG_set0_SinglePubInfo()` sets in the given `SinglePubInfo` spi the method and publication location, in the form of a `GeneralName`, nm.

The publication location is optional, and therefore nm may be NULL.

The function consumes the nm pointer if present. Available methods are:

```
# define OSSL_CRMF_PUB_METHOD_DONTCARE 0
# define OSSL_CRMF_PUB_METHOD_X500    1
# define OSSL_CRMF_PUB_METHOD_WEB     2
# define OSSL_CRMF_PUB_METHOD_LDAP    3
```

`OSSL_CRMF_MSG_set_PKIPublicationInfo_action()` sets the action in the given pi using the given action as value. See RFC 4211, section 6.3.

Available actions are:

```
# define OSSL_CRMF_PUB_ACTION_DONTPUBLISH 0
# define OSSL_CRMF_PUB_ACTION_PLEASEPUBLISH 1
```

`OSSL_CRMF_MSG_set1_regCtrl_pkiPublicationInfo()` sets the `pkiPublicationInfo` control in the given msg copying the given tok as value. See RFC 4211, section 6.3.

OSSL_CRMF_MSG_set1_regCtrl_protocolEncrKey() sets the protocolEncrKey control in the given msg copying the given pubkey as value. See RFC 4211 section 6.6.

OSSL_CRMF_MSG_set1_regCtrl_oldCertID() sets the oldCertID regToken control in the given msg copying the given cid as value. See RFC 4211, section 6.5.

OSSL_CRMF_CERTID_gen produces an OSSL_CRMF_CERTID_gen structure copying the given issuer name and serial number.

RETURN VALUES

All OSSL_CRMF_MSG_get0_*() functions return the respective pointer value or NULL if not present and on error.

All OSSL_CRMF_MSG_set1_*() functions return 1 on success, 0 on error.

OSSL_CRMF_CERTID_gen() returns a pointer to the resulting structure or NULL on error.

NOTES

A function OSSL_CRMF_MSG_set1_regCtrl_pkiArchiveOptions() for setting an Archive Options Control is not yet implemented due to missing features to create the needed OSSL_CRMF_PKIARCHIVEOPTINS content.

SEE ALSO

RFC 4211

HISTORY

The OpenSSL CRMF support was added in OpenSSL 3.0.

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