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## **Enterprise Linux Release 9.2 Manual Pages on 'OSSL\_CRMF\_MSG\_get0\_regCtrl\_protocolEncrKey.3ossl' c**

```
$ 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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