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`$ man OSSL_CRMF_MSG_set1_regCtrl_authenticator.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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