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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'X509V3_set_issuer_pkey.3ossl' command

$ man X509V3_set_issuer_pkey.3ossl

X509V3_SET_CTX(3ossl) OpenSSL X509V3_SET_CTX(3ossl)

NAME

X509V3_set_ctx, X509V3_set_issuer_pkey - X.509 v3 extension generation utilities

SYNOPSIS

```
#include <openssl/x509v3.h>

void X509V3_set_ctx(X509V3_CTX *ctx, X509 *issuer, X509 *subject,
                    X509_REQ *req, X509_CRL *crl, int flags);
int X509V3_set_issuer_pkey(X509V3_CTX *ctx, EVP_PKEY *pkey);
```

DESCRIPTION

X509V3_set_ctx() fills in the basic fields of ctx of type X509V3_CTX, providing details potentially needed by functions producing X509 v3 extensions, e.g., to look up values for filling in authority key identifiers. Any of subject, req, or crl may be provided, pointing to a certificate, certification request, or certificate revocation list, respectively. When constructing the subject key identifier of a certificate by computing a hash value of its public key, the public key is taken from subject or req. Similarly, when constructing subject alternative names from any email addresses contained in a subject DN,

the subject DN is taken from subject or req. If subject or crl is provided, issuer should point to its issuer, for instance to help generating an authority key identifier extension. Note that if subject is provided, issuer may be the same as subject, which means that subject is self-issued (or even self-signed). flags may be 0 or contain X509V3_CTX_TEST, which means that just the syntax of extension definitions is to be checked without actually producing an extension, or X509V3_CTX_REPLACE, which means that each X.509v3 extension added as defined in some configuration section shall replace any already existing extension with the same OID.

X509V3_set_issuer_pkey() explicitly sets the issuer private key of the certificate that has been provided in ctx. This should be done for self-issued certificates (which may be self-signed or not) to provide fallback data for the authority key identifier extension.

RETURN VALUES

X509V3_set_ctx() and X509V3_set_issuer_pkey() return 1 on success and 0 on error.

SEE ALSO

X509_add_ext(3)

HISTORY

X509V3_set_issuer_pkey() was added in OpenSSL 3.0.

CTX_TEST was deprecated in OpenSSL 3.0; use X509V3_CTX_TEST instead.

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