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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'BN_get_rfc3526_prime_3072.3ossl' command

$ man BN_get_rfc3526_prime_3072.3ossl

DH_GET_1024_160(3ossl) OpenSSL DH_GET_1024_160(3ossl)

NAME

DH_get_1024_160, DH_get_2048_224, DH_get_2048_256,

BN_get0_nist_prime_192, BN_get0_nist_prime_224, BN_get0_nist_prime_256,

BN_get0_nist_prime_384, BN_get0_nist_prime_521,

BN_get_rfc2409_prime_768, BN_get_rfc2409_prime_1024,

BN_get_rfc3526_prime_1536, BN_get_rfc3526_prime_2048,

BN_get_rfc3526_prime_3072, BN_get_rfc3526_prime_4096,

BN_get_rfc3526_prime_6144, BN_get_rfc3526_prime_8192 - Create

standardized public primes or DH pairs

SYNOPSIS

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

const BIGNUM *BN_get0_nist_prime_192(void);
const BIGNUM *BN_get0_nist_prime_224(void);
const BIGNUM *BN_get0_nist_prime_256(void);
const BIGNUM *BN_get0_nist_prime_384(void);
const BIGNUM *BN_get0_nist_prime_521(void);

BIGNUM *BN_get_rfc2409_prime_768(BIGNUM *bn);
BIGNUM *BN_get_rfc2409_prime_1024(BIGNUM *bn);
```

```
BIGNUM *BN_get_rfc3526_prime_1536(BIGNUM *bn);
BIGNUM *BN_get_rfc3526_prime_2048(BIGNUM *bn);
BIGNUM *BN_get_rfc3526_prime_3072(BIGNUM *bn);
BIGNUM *BN_get_rfc3526_prime_4096(BIGNUM *bn);
BIGNUM *BN_get_rfc3526_prime_6144(BIGNUM *bn);
BIGNUM *BN_get_rfc3526_prime_8192(BIGNUM *bn);
```

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining OPENSSL_API_COMPAT with a suitable version value, see openssl_user_macros(7):

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

DH *DH_get_1024_160(void);
DH *DH_get_2048_224(void);
DH *DH_get_2048_256(void);
```

DESCRIPTION

DH_get_1024_160(), DH_get_2048_224(), and DH_get_2048_256() each return a DH object for the IETF RFC 5114 value. These functions are deprecated. Applications should instead use EVP_PKEY_CTX_set_dh_rfc5114() and EVP_PKEY_CTX_set_dhx_rfc5114() as described in EVP_PKEY_CTX_ctrl(3) or by setting the OSSL_PKEY_PARAM_GROUP_NAME as specified in "DH parameters" in EVP_PKEY-DH(7)) to one of "dh_1024_160", "dh_2048_224" or "dh_2048_256".

BN_get0_nist_prime_192(), BN_get0_nist_prime_224(), BN_get0_nist_prime_256(), BN_get0_nist_prime_384(), and BN_get0_nist_prime_521() functions return a BIGNUM for the specific NIST prime curve (e.g., P-256).

BN_get_rfc2409_prime_768(), BN_get_rfc2409_prime_1024(),

BN_get_rfc3526_prime_1536(), BN_get_rfc3526_prime_2048(), BN_get_rfc3526_prime_3072(), BN_get_rfc3526_prime_4096(), BN_get_rfc3526_prime_6144(), and BN_get_rfc3526_prime_8192() functions return a BIGNUM for the specified size from IETF RFC 2409. If bn is not NULL, the BIGNUM will be set into that location as well.

RETURN VALUES

Defined above.

HISTORY

The functions DH_get_1024_160(), DH_get_2048_224() and DH_get_2048_256() were deprecated in OpenSSL 3.0.

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