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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'DH_get_2048_256.3oss1' command

\$ man DH_get_2048_256.3oss1

DH_GET_1024_160(3oss1) OpenSSL DH_GET_1024_160(3oss1)

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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