

NAME

DH_new_by_nid, DH_get_nid – create or get DH named parameters

SYNOPSIS

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

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):

```
DH *DH_new_by_nid(int nid);
```

```
int DH_get_nid(const DH *dh);
```

DESCRIPTION

DH_new_by_nid() creates and returns a DH structure containing named parameters **nid**. Currently **nid** must be **NID_ffdhe2048**, **NID_ffdhe3072**, **NID_ffdhe4096**, **NID_ffdhe6144**, **NID_ffdhe8192**, **NID_modp_1536**, **NID_modp_2048**, **NID_modp_3072**, **NID_modp_4096**, **NID_modp_6144** or **NID_modp_8192**.

DH_get_nid() determines if the parameters contained in **dh** match any named safe prime group. It returns the NID corresponding to the matching parameters or **NID_undef** if there is no match. This function is deprecated.

RETURN VALUES

DH_new_by_nid() returns a set of DH parameters or **NULL** if an error occurred.

DH_get_nid() returns the NID of the matching set of parameters for p and g and optionally q, otherwise it returns **NID_undef** if there is no match.

HISTORY

All of these functions were deprecated in OpenSSL 3.0.

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