NAME

DSA_generate_key − generate DSA key pair

SYNOPSIS

```
#include <openssl/dsa.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):

```
int DSA_generate_key(DSA *a);
```

DESCRIPTION

All of the functions described on this page are deprecated. Applications should instead use **EVP_PKEY_keygen_init**(3) and **EVP_PKEY_keygen**(3) as described in **EVP_PKEY−DSA**(7).

DSA_generate_key() expects **a** to contain DSA parameters. It generates a new key pair and stores it in **a−>pub_key** and **a−>priv_key**.

The random generator must be seeded prior to calling **DSA_generate_key()**. If the automatic seeding or reseeding of the OpenSSL CSPRNG fails due to external circumstances (see **RAND**(7)), the operation will fail.

RETURN VALUES

DSA_generate_key() returns 1 on success, 0 otherwise. The error codes can be obtained by **ERR_get_error**(3).

SEE ALSO

DSA_new(3), **ERR_get_error**(3), **RAND_bytes**(3), **DSA_generate_parameters_ex**(3)

HISTORY

This function was deprecated in OpenSSL 3.0.

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