

NAME

RSA_print, RSA_print_fp, DSAParams_print, DSAParams_print_fp, DSA_print, DSA_print_fp, DHparams_print, DHparams_print_fp – print cryptographic parameters

SYNOPSIS

```
#include <openssl/rsa.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 RSA_print(BIO *bp, const RSA *x, int offset);
int RSA_print_fp(FILE *fp, const RSA *x, int offset);
```

```
#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 DSAParams_print(BIO *bp, const DSA *x);
int DSAParams_print_fp(FILE *fp, const DSA *x);
int DSA_print(BIO *bp, const DSA *x, int offset);
int DSA_print_fp(FILE *fp, const DSA *x, int offset);
```

```
#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):

```
int DHparams_print(BIO *bp, DH *x);
int DHparams_print_fp(FILE *fp, const DH *x);
```

DESCRIPTION

All of the functions described on this page are deprecated. Applications should instead use **EVP_PKEY_print_params**(3) and **EVP_PKEY_print_private**(3).

A human-readable hexadecimal output of the components of the RSA key, DSA parameters or key or DH parameters is printed to **bp** or **fp**.

The output lines are indented by **offset** spaces.

RETURN VALUES

DSAParams_print(), **DSAParams_print_fp()**, **DSA_print()**, and **DSA_print_fp()** return 1 for success and 0 or a negative value for failure.

DHparams_print() and **DHparams_print_fp()** return 1 on success, 0 on error.

SEE ALSO

```
L<EVP_PKEY_print_params(3)>,
L<EVP_PKEY_print_private(3)>,
L<BN_bn2bin(3)>
```

HISTORY

All of these functions were deprecated in OpenSSL 3.0.

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