

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.

COPYRIGHT

Copyright 2000-2021 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <<https://www.openssl.org/source/license.html>>.