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Rocky Enterprise Linux 9.2 Manual Pages on command 'EVP_PKEY_print_public.3ossl'

\$ man EVP_PKEY_print_public.3ossl

EVP_PKEY_PRINT_PRIVATE(3ossl) OpenSSL EVP_PKEY_PRINT_PRIVATE(3ossl)

NAME

EVP_PKEY_print_public, EVP_PKEY_print_private, EVP_PKEY_print_params,
EVP_PKEY_print_public_fp, EVP_PKEY_print_private_fp,
EVP_PKEY_print_params_fp - public key algorithm printing routines

SYNOPSIS

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

int EVP_PKEY_print_public(BIO *out, const EVP_PKEY *pkey,
                        int indent, ASN1_PCTX *pctx);

int EVP_PKEY_print_public_fp(FILE *fp, const EVP_PKEY *pkey,
                            int indent, ASN1_PCTX *pctx);

int EVP_PKEY_print_private(BIO *out, const EVP_PKEY *pkey,
                          int indent, ASN1_PCTX *pctx);

int EVP_PKEY_print_private_fp(FILE *fp, const EVP_PKEY *pkey,
                              int indent, ASN1_PCTX *pctx);

int EVP_PKEY_print_params(BIO *out, const EVP_PKEY *pkey,
                        int indent, ASN1_PCTX *pctx);

int EVP_PKEY_print_params_fp(FILE *fp, const EVP_PKEY *pkey,
```

```
int indent, ASN1_PCTX *pctx);
```

DESCRIPTION

The functions `EVP_PKEY_print_public()`, `EVP_PKEY_print_private()` and `EVP_PKEY_print_params()` print out the public, private or parameter components of key `pkey` respectively. The key is sent to BIO out in human readable form. The parameter `indent` indicates how far the printout should be indented.

The `pctx` parameter allows the print output to be finely tuned by using ASN1 printing options. If `pctx` is set to NULL then default values will be used.

The functions `EVP_PKEY_print_public_fp()`, `EVP_PKEY_print_private_fp()` and `EVP_PKEY_print_params_fp()` do the same as the BIO based functions but use FILE `fp` instead.

NOTES

Currently no public key algorithms include any options in the `pctx` parameter.

If the key does not include all the components indicated by the function then only those contained in the key will be printed. For example passing a public key to `EVP_PKEY_print_private()` will only print the public components.

RETURN VALUES

These functions all return 1 for success and 0 or a negative value for failure. In particular a return value of -2 indicates the operation is not supported by the public key algorithm.

SEE ALSO

`EVP_PKEY_CTX_new(3)`, `EVP_PKEY_keygen(3)`

HISTORY

The functions `EVP_PKEY_print_public()`, `EVP_PKEY_print_private()`, and `EVP_PKEY_print_params()` were added in OpenSSL 1.0.0.

The functions `EVP_PKEY_print_public_fp()`, `EVP_PKEY_print_private_fp()`, and `EVP_PKEY_print_params_fp()` were added in OpenSSL 3.0.

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