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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'EVP\_PKEY\_set\_bn\_param.3ossl'***

***\$ man EVP\_PKEY\_set\_bn\_param.3ossl***

EVP\_PKEY\_SETTABLE\_PARAMS(3ossl) OpenSSL EVP\_PKEY\_SETTABLE\_PARAMS(3ossl)

#### NAME

EVP\_PKEY\_settable\_params, EVP\_PKEY\_set\_params, EVP\_PKEY\_set\_int\_param,  
EVP\_PKEY\_set\_size\_t\_param, EVP\_PKEY\_set\_bn\_param,  
EVP\_PKEY\_set\_utf8\_string\_param, EVP\_PKEY\_set\_octet\_string\_param - set  
key parameters into a key

#### SYNOPSIS

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

```
const OSSL_PARAM *EVP_PKEY_settable_params(const EVP_PKEY *pkey);  
int EVP_PKEY_set_params(EVP_PKEY *pkey, OSSL_PARAM params[]);  
int EVP_PKEY_set_int_param(EVP_PKEY *pkey, const char *key_name, int in);  
int EVP_PKEY_set_size_t_param(EVP_PKEY *pkey, const char *key_name, size_t in);  
int EVP_PKEY_set_bn_param(EVP_PKEY *pkey, const char *key_name,  
                           const BIGNUM *bn);  
int EVP_PKEY_set_utf8_string_param(EVP_PKEY *pkey, const char *key_name,
```

```
    const char *str);  
  
int EVP_PKEY_set_octet_string_param(EVP_PKEY *pkey, const char *key_name,  
    const unsigned char *buf, size_t bsize);
```

## DESCRIPTION

These functions can be used to set additional parameters into an existing `EVP_PKEY`.

`EVP_PKEY_set_params()` sets one or more params into a pkey. See `OSSL_PARAM(3)` for information about parameters.

`EVP_PKEY_settable_params()` returns a constant list of params indicating the names and types of key parameters that can be set. See `OSSL_PARAM(3)` for information about parameters.

`EVP_PKEY_set_int_param()` sets an integer value in into a key pkey for the associated field `key_name`.

`EVP_PKEY_set_size_t_param()` sets an `size_t` value in into a key pkey for the associated field `key_name`.

`EVP_PKEY_set_bn_param()` sets the `BIGNUM` value `bn` into a key pkey for the associated field `key_name`.

`EVP_PKEY_set_utf8_string_param()` sets the UTF8 string `str` into a key pkey for the associated field `key_name`.

`EVP_PKEY_set_octet_string_param()` sets the octet string value `buf` with a size `bsize` into a key pkey for the associated field `key_name`.

## NOTES

These functions only work for `EVP_PKEY`s that contain a provider side key.

## RETURN VALUES

EVP\_PKEY\_settable\_params() returns NULL on error or if it is not supported,

All other methods return 1 if a value was successfully set, or 0 if there was an error.

## SEE ALSO

EVP\_PKEY\_gettable\_params(3), EVP\_PKEY\_CTX\_new(3), provider-keymgmt(7), OSSL\_PARAM(3),

## HISTORY

These functions were added in OpenSSL 3.0.

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