

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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