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## **Rocky Enterprise Linux 9.2 Manual Pages on command 'EVP\_PKEY\_get\_ec\_point\_conv\_form.3ossl'**

```
$ man EVP_PKEY_get_ec_point_conv_form.3ossl
```

```
EVP_PKEY_GET_FIELD_TYPE(3ossl)  OpenSSL  EVP_PKEY_GET_FIELD_TYPE(3ossl)
```

### NAME

EVP\_PKEY\_get\_field\_type, EVP\_PKEY\_get\_ec\_point\_conv\_form - get field type or point conversion form of a key

### SYNOPSIS

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

```
int EVP_PKEY_get_field_type(const EVP_PKEY *pkey);
```

```
int EVP_PKEY_get_ec_point_conv_form(const EVP_PKEY *pkey);
```

### DESCRIPTION

EVP\_PKEY\_get\_field\_type() returns the field type NID of the pkey, if pkey's key type supports it. The types currently supported by the built-in OpenSSL providers are either NID\_X9\_62\_prime\_field for prime curves or NID\_X9\_62\_characteristic\_two\_field for binary curves; these values are defined in the <openssl/obj\_mac.h> header file.

EVP\_PKEY\_get\_ec\_point\_conv\_form() returns the point conversion format of the pkey, if pkey's key type supports it.

## NOTES

Among the standard OpenSSL key types, this is only supported for EC and SM2 keys. Other providers may support this for additional key types.

## RETURN VALUES

EVP\_PKEY\_get\_field\_type() returns the field type NID or 0 on error.

EVP\_PKEY\_get\_ec\_point\_conv\_form() returns the point conversion format number (see EC\_GROUP\_copy(3)) or 0 on error.

## SEE ALSO

EC\_GROUP\_copy(3)

## HISTORY

These functions were added in OpenSSL 3.0.

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