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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EC_KEY_set_enc_flags.3ossl' command

`$ man EC_KEY_set_enc_flags.3ossl`

`EC_KEY_GET_ENC_FLAGS(3ossl)` `OpenSSL` `EC_KEY_GET_ENC_FLAGS(3ossl)`

NAME

`EC_KEY_get_enc_flags`, `EC_KEY_set_enc_flags` - Get and set flags for encoding EC_KEY structures

SYNOPSIS

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

```
unsigned int EC_KEY_get_enc_flags(const EC_KEY *key);  
void EC_KEY_set_enc_flags(EC_KEY *eckey, unsigned int flags);
```

DESCRIPTION

The format of the external representation of the public key written by `i2d_ECPrivateKey()` (such as whether it is stored in a compressed form or not) is described by the `point_conversion_form`. See `EC_GROUP_copy(3)` for a description of `point_conversion_form`.

When reading a private key encoded without an associated public key (e.g. if `EC_PKEY_NO_PUBKEY` has been used - see below), then `d2i_ECPrivateKey()` generates the missing public key automatically.

Private keys encoded without parameters (e.g. if `EC_PKEY_NO_PARAMETERS` has been used - see below) cannot be loaded using `d2i_ECPrivateKey()`.

The functions `EC_KEY_get_enc_flags()` and `EC_KEY_set_enc_flags()` get and set the value of the encoding flags for the key. There are two encoding flags currently defined - `EC_PKEY_NO_PARAMETERS` and `EC_PKEY_NO_PUBKEY`. These flags define the behaviour of how the key is converted into ASN1 in a call to `i2d_ECPrivateKey()`. If `EC_PKEY_NO_PARAMETERS` is set then the public parameters for the curve are not encoded along with the private key. If `EC_PKEY_NO_PUBKEY` is set then the public key is not encoded along with the private key.

RETURN VALUES

`EC_KEY_get_enc_flags()` returns the value of the current encoding flags for the `EC_KEY`.

SEE ALSO

`crypto(7)`, `EC_GROUP_new(3)`, `EC_GROUP_copy(3)`, `EC_POINT_new(3)`, `EC_POINT_add(3)`, `EC_GFp_simple_method(3)`, `d2i_ECParameters(3)`, `d2i_ECPrivateKey(3)`

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