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

\$ man EVP_PKEY_todata.3ossl

EVP_PKEY_TODATA(3ossl) OpenSSL EVP_PKEY_TODATA(3ossl)

NAME

EVP_PKEY_todata, EVP_PKEY_export - functions to return keys as an array of key parameters

SYNOPSIS

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

int EVP_PKEY_todata(const EVP_PKEY *pkey, int selection, OSSL_PARAM **params);

int EVP_PKEY_export(const EVP_PKEY *pkey, int selection,
                    OSSL_CALLBACK *export_cb, void *export_cbarg);
```

DESCRIPTION

The functions described here are used to extract EVP_PKEY key values as an array of OSSL_PARAM.

EVP_PKEY_todata() extracts values from a key pkey using the selection.

selection is described in "Selections" in EVP_PKEY_fromdata(3).

OSSL_PARAM_free(3) should be used to free the returned parameters in *params.

EVP_PKEY_export() is similar to EVP_PKEY_todata() but uses a callback export_cb that gets passed the value of export_cbarg. See

openssl-core.h(7) for more information about the callback. Note that

the OSSL_PARAM array that is passed to the callback is not persistent

after the callback returns. The user must preserve the items of

interest, or use EVP_PKEY_todata() if persistence is required.

NOTES

These functions only work with key management methods coming from a provider. This is the mirror function to `EVP_PKEY_fromdata(3)`.

RETURN VALUES

`EVP_PKEY_todata()` and `EVP_PKEY_export()` return 1 for success and 0 for failure.

SEE ALSO

`OSSL_PARAM(3)`, `openssl-core.h(7)`, `EVP_PKEY_fromdata(3)`,
`EVP_PKEY-RSA(7)`, `EVP_PKEY-DSA(7)`, `EVP_PKEY-DH(7)`, `EVP_PKEY-EC(7)`,
`EVP_PKEY-ED448(7)`, `EVP_PKEY-X25519(7)`, `EVP_PKEY-X448(7)`,
`EVP_PKEY-ED25519(7)`

HISTORY

These functions were added in OpenSSL 3.0.

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3.0.7 2023-07-13 `EVP_PKEY_TODATA(3openssl)`