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

***\$ 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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