

**NAME**

`EVP_PKEY_CTX_get0_libctx`, `EVP_PKEY_CTX_get0_propq`, `EVP_PKEY_CTX_get0_provider` - functions for getting diverse information from an `EVP_PKEY_CTX`

**SYNOPSIS**

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

```
OSSL_LIB_CTX *EVP_PKEY_CTX_get0_libctx(EVP_PKEY_CTX *ctx);
const char *EVP_PKEY_CTX_get0_propq(const EVP_PKEY_CTX *ctx);
const OSSL_PROVIDER *EVP_PKEY_CTX_get0_provider(const EVP_PKEY_CTX *ctx);
```

**DESCRIPTION**

`EVP_PKEY_CTX_get0_libctx()` and `EVP_PKEY_CTX_get0_propq()` obtain the `OSSL_LIB_CTX` and property query string values respectively that were associated with the `EVP_PKEY_CTX` when it was constructed.

`EVP_PKEY_CTX_get0_provider()` returns the provider associated with the ongoing `EVP_PKEY_CTX` operation. If the operation is performed by an **ENGINE**, this function returns `NULL`.

**RETURN VALUES**

`EVP_PKEY_CTX_get0_libctx()` and `EVP_PKEY_CTX_get0_propq()` functions return the `OSSL_LIB_CTX` and property query string associated with the `EVP_PKEY_CTX` or `NULL` if they are not set. The returned values should not be freed by the caller.

`EVP_PKEY_CTX_get0_provider()` returns a provider if an operation performed by a provider is ongoing, otherwise `NULL`.

**SEE ALSO**

`EVP_PKEY_CTX_new(3)`

**HISTORY**

All functions were added in OpenSSL 3.0.

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