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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP_default_properties_enable_fips.3oss1' command

\$ man EVP_default_properties_enable_fips.3oss1

EVP_SET_DEFAULT_PROPERTIES(3oss1) OpenSSL EVP_SET_DEFAULT_PROPERTIES(3oss1)

NAME

EVP_set_default_properties, EVP_default_properties_enable_fips, EVP_default_properties_is_fips_enabled - Set default properties for future algorithm fetches

SYNOPSIS

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

```
int EVP_set_default_properties(OSSL_LIB_CTX *libctx, const char *propq);  
int EVP_default_properties_enable_fips(OSSL_LIB_CTX *libctx, int enable);  
int EVP_default_properties_is_fips_enabled(OSSL_LIB_CTX *libctx);
```

DESCRIPTION

EVP_set_default_properties() sets the default properties for all future EVP algorithm fetches, implicit as well as explicit. See "ALGORITHM FETCHING" in crypto(7) for information about implicit and explicit fetching.

EVP_set_default_properties stores the properties given with the string propq among the EVP data that's been stored in the library context given with libctx (NULL signifies the default library context).

Any previous default property for the specified library context will be dropped.

`EVP_default_properties_enable_fips()` sets the 'fips=yes' to be a default property if `enable` is non zero, otherwise it clears 'fips' from the default property query for the given `libctx`. It merges the fips default property query with any existing query strings that have been set via `EVP_set_default_properties()`.

`EVP_default_properties_is_fips_enabled()` indicates if 'fips=yes' is a default property for the given `libctx`.

NOTES

`EVP_set_default_properties()` and `EVP_default_properties_enable_fips()` are not thread safe. They are intended to be called only during the initialisation phase of a `libctx`.

RETURN VALUES

`EVP_set_default_properties()` and `EVP_default_properties_enable_fips()` return 1 on success, or 0 on failure. An error is placed on the error stack if a failure occurs.

`EVP_default_properties_is_fips_enabled()` returns 1 if the 'fips=yes' default property is set for the given `libctx`, otherwise it returns 0.

SEE ALSO

`EVP_MD_fetch(3)`

HISTORY

The functions described here were added in OpenSSL 3.0.

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