

NAME

fido_dev_set_pin, **fido_dev_get_retry_count**, **fido_dev_get_uv_retry_count**, **fido_dev_reset** - FIDO2 device management functions

SYNOPSIS

```
#include <fido.h>
```

int

```
fido_dev_set_pin(fido_dev_t *dev, const char *pin, const char *oldpin);
```

int

```
fido_dev_get_retry_count(fido_dev_t *dev, int *retries);
```

int

```
fido_dev_get_uv_retry_count(fido_dev_t *dev, int *retries);
```

int

```
fido_dev_reset(fido_dev_t *dev);
```

DESCRIPTION

The **fido_dev_set_pin()** function sets the PIN of device *dev* to *pin*, where *pin* is a NUL-terminated UTF-8 string. If *oldpin* is not NULL, the device's PIN is changed from *oldpin* to *pin*, where *pin* and *oldpin* are NUL-terminated UTF-8 strings.

The **fido_dev_get_retry_count()** function fills *retries* with the number of PIN retries left in *dev* before lock-out, where *retries* is an addressable pointer.

The **fido_dev_get_uv_retry_count()** function fills *retries* with the number of built-in UV retries left in *dev* before built-in UV is disabled, where *retries* is an addressable pointer.

The **fido_dev_reset()** function performs a reset on *dev*, resetting the device's PIN and erasing credentials stored on the device.

Please note that **fido_dev_set_pin()**, **fido_dev_get_retry_count()**, **fido_dev_get_uv_retry_count()**, and **fido_dev_reset()** are synchronous and will block if necessary.

RETURN VALUES

The error codes returned by **fido_dev_set_pin()**, **fido_dev_get_retry_count()**, **fido_dev_get_uv_retry_count()**, and **fido_dev_reset()** are defined in *<fido/err.h>*. On success, FIDO_OK is returned.

SEE ALSO

 fido_cbor_info_uv_attempts(3)

CAVEATS

Regarding **fido_dev_reset()**, the actual user-flow to perform a reset is outside the scope of the FIDO2 specification, and may therefore vary depending on the authenticator. Yubico authenticators will return **FIDO_ERR_NOT_ALLOWED** if a reset is issued later than 5 seconds after power-up, and **FIDO_ERR_ACTION_TIMEOUT** if the user fails to confirm the reset by touching the key within 30 seconds.