

**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.