

**NAME**

**fidobio\_enroll\_new**, **fidobio\_enroll\_free**, **fidobio\_enroll\_last\_status**,  
**fidobio\_enroll\_remaining\_samples** - FIDO2 biometric enrollment API

**SYNOPSIS**

```
#include <fidobio.h>
```

```
#include <fidobio/bio.h>
```

```
#define FIDO_BIO_ENROLL_FP_GOOD                0x00
#define FIDO_BIO_ENROLL_FP_TOO_HIGH           0x01
#define FIDO_BIO_ENROLL_FP_TOO_LOW            0x02
#define FIDO_BIO_ENROLL_FP_TOO_LEFT           0x03
#define FIDO_BIO_ENROLL_FP_TOO_RIGHT          0x04
#define FIDO_BIO_ENROLL_FP_TOO_FAST           0x05
#define FIDO_BIO_ENROLL_FP_TOO_SLOW           0x06
#define FIDO_BIO_ENROLL_FP_POOR_QUALITY        0x07
#define FIDO_BIO_ENROLL_FP_TOO_SKEWED         0x08
#define FIDO_BIO_ENROLL_FP_TOO_SHORT          0x09
#define FIDO_BIO_ENROLL_FP_MERGE_FAILURE       0x0a
#define FIDO_BIO_ENROLL_FP_EXISTS              0x0b
#define FIDO_BIO_ENROLL_FP_DATABASE_FULL       0x0c
#define FIDO_BIO_ENROLL_NO_USER_ACTIVITY       0x0d
#define FIDO_BIO_ENROLL_NO_USER_PRESENCE_TRANSITION 0x0e
```

```
fidobio_enroll_t *
```

```
fidobio_enroll_new(void);
```

```
void
```

```
fidobio_enroll_free(fidobio_enroll_t **enroll_p);
```

```
uint8_t
```

```
fidobio_enroll_last_status(const fidobio_enroll_t *enroll);
```

```
uint8_t
```

```
fidobio_enroll_remaining_samples(const fidobio_enroll_t *enroll);
```

**DESCRIPTION**

Ongoing FIDO2 biometric enrollments are abstracted in *libfido2* by the *fidobio\_enroll\_t* type.

The functions described in this page allow a *fidobio\_enroll\_t* type to be allocated, deallocated, and inspected. For device operations on *fidobio\_enroll\_t*, please refer to `fidobio_dev_get_info(3)`.

The **fido\_bio\_enroll\_new()** function returns a pointer to a newly allocated, empty *fido\_bio\_enroll\_t* type. If memory cannot be allocated, NULL is returned.

The **fido\_bio\_enroll\_free()** function releases the memory backing *\*enroll\_p*, where *\*enroll\_p* must have been previously allocated by **fido\_bio\_enroll\_new()**. On return, *\*enroll\_p* is set to NULL. Either *enroll\_p* or *\*enroll\_p* may be NULL, in which case **fido\_bio\_enroll\_free()** is a NOP.

The **fido\_bio\_enroll\_last\_status()** function returns the enrollment status of *enroll*.

The **fido\_bio\_enroll\_remaining\_samples()** function returns the number of samples left for *enroll* to complete.

#### SEE ALSO

fido\_bio\_dev\_get\_info(3), fido\_bio\_template(3)