NAME

fido2-token — find and manage a FIDO2 authenticator

SYNOPSIS

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fido2-token -C[ -d] device
fido2-token -D[ -d] -i cred_id device
fido2-token -D -b[-d] -k key_path device
fido2-token -D -b[-d] -n rp id[-i cred id]device
fido2-token -D -e[-d] -i template_id device
fido2-token -D -u[ -d] device
fido2-token -G -b[-d] -k key_path blob_path device
fido2-token -G -b[-d] -n rp_id[-i cred_id]blob_pathdevice
fido2-token -I[ -cd] [-k rp_id -i cred_id] device
fido2-token -L[ -bder] [-k rp_id] [de vice]
fido2-token -R[ -d] device
fido2-token -S[ -adefu] device
fido2-token -S[-d] -i template_id -n template_name device
fido2-token -S[ -d] -l pin_length device
fido2-token -S -b[-d] -k key_pathblob_pathdevice
fido2-token -S -b[-d] -n rp_id[-i cred_id]blob_pathdevice
fido2-token -S -c[-d] -i cred_id -k user_id -n name -p display_name device
fido2-token -S -mrp_id device
fido2-token -V
```

DESCRIPTION

fido2-token manages a FIDO2 authenticator.

The options are as follows:

-C device

Changes the PIN of device. The user will be prompted for the current and new PINs.

-D -iid device

Deletes the resident credential specified by *id* from *device*, where *id* is the credential's base64-encoded id. The user will be prompted for the PIN.

-D -b -kkey_path device

Deletes a "largeBlob" encrypted with key_path from device, where key_path holds the blob's base64-encoded 32-byte AES-256 GCM encryption key. A PIN or equivalent user-verification gesture is required.

-D -b -nrp_id [-i cred_id]device

Deletes a "largeBlob" corresponding torp_id from device. Ifrp_id has multiple credentials enrolled on device, the credential ID must be specified using -i cred_id, where cred_id is a base64-encoded blob. A PIN or equivalent user-verification gesture is required.

-D -e -iid device

Deletes the biometric enrollment specified by *id* from *device*, where *id* is the enrollment's template base64-encoded id. The user will be prompted for the PIN.

-D -udevice

Disables the CTAP 2.1 "user verification always" feature ondevice.

-G -b -kkey_path blob_path device

Gets a CTAP 2.1 "largeBlob" encrypted with <code>key_path</code> from <code>device</code>, where <code>key_path</code> holds the blob's base64-encoded 32-byte AES-256 GCM encryption key. The blob is written to

blob_path. A PIN or equivalent user-verification gesture is required.

-G -b -nrp_id [-i cred_id]blob_path device

Gets a CTAP 2.1 "largeBlob" associated with <code>rp_id</code> from <code>device</code>. If <code>rp_id</code> has multiple credentials enrolled on <code>device</code>, the credential ID must be specified using <code>-i</code> <code>cred_id</code>, where <code>cred_id</code> is a base64-encoded blob. The blob is written to <code>blob_path</code>. A PIN or equi valent user-verification gesture is required.

-I device

Retrieves information on device.

-I -cdevice

Retrieves resident credential metadata from device. The user will be prompted for the PIN.

-I -krp_id -i cred_id device

Prints the credential id (base64-encoded) and public key (PEM encoded) of the resident credential specified by rp_id and $cred_id$, where rp_id is a UTF-8 relying party id, and $cred_id$ is a base64-encoded credential id. The user will be prompted for the PIN.

-L Produces a list of authenticators found by the operating system.

-L -bdevice

Produces a list of CTAP 2.1 "largeBlobs" ondevice. A PIN or equi valent user-verification gesture is required.

-L -edevice

Produces a list of biometric enrollments on device. The user will be prompted for the PIN.

-L -rdevice

Produces a list of relying parties with resident credentials on device. The user will be prompted for the PIN.

-L -krp id device

Produces a list of resident credentials corresponding to relying party rp_id on device. The user will be prompted for the PIN.

- **-R** Performs a reset on *device*. **fido2-token** will NOT prompt for confirmation.
- **-s** Sets the PIN of *device*. The user will be prompted for the PIN.

-S -adevice

Enables CTAP 2.1 Enterprise Attestation on device.

-S -b -kkey_path blob_path device

Sets a CTAP 2.1 "largeBlob" encrypted with <code>key_path</code> on <code>device</code>, where <code>key_path</code> holds the blob's base64-encoded 32-byte AES-256 GCM encryption key. The blob is read from <code>blob_path</code>. A PIN or equivalent user-verification gesture is required.

-S -b -nrp_id [-i cred_id]blob_path device

Sets a CTAP 2.1 "largeBlob" associated with rp_id on device. The blob is read from $blob_path$. If rp_id has multiple credentials enrolled on device, the credential ID must be specified using -i $cred_id$, where $cred_id$ is a base64-encoded blob. A PIN or equivalent user-verification gesture is required.

-S -c -icred_id -k user_id -n name -p display_name device

Sets the name and display_name attributes of the resident credential identified by cred_id and user_id, where name and display_name are UTF-8 strings and cred_id and user_id are base64-encoded blobs. A PIN or equivalent user-verification gesture is required.

-s -edevice

Performs a new biometric enrollment on device. The user will be prompted for the PIN.

-S -e -itemplate_id -n template_name device

Sets the friendly name of the biometric enrollment specified by template_id to template_name on device, where template_id is base64-encoded and template_name is a UTF-8 string. The user will be prompted for the PIN.

-S -fdevice

Forces a PIN change on device. The user will be prompted for the PIN.

-S -lpin_length device

Sets the minimum PIN length of device to pin_length. The user will be prompted for the PIN.

-S -mrp id device

Sets the list of relying party IDs that are allowed to retrieve the minimum PIN length of device. Multiple IDs may be specified, separated by commas. The user will be prompted for the PIN.

-s -udevice

Enables the CTAP 2.1 "user verification always" feature ondevice.

- **-v** Prints version information.
- -d Causes **fido2-token** to emit debugging output on *stderr*.

If a *tty* is available, **fido2-token** will use it to prompt for PINs. Otherwise, *stdin* is used.

fido2-token exits 0 on success and 1 on error.

SEE ALSO

fido2-assert(1), fido2-cred(1)

CAVEATS

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 do not allow resets after 5 seconds from power-up, and expect a reset to be confirmed by the user through touch within 30 seconds.

An authenticator's path may contain spaces.

Resident credentials are called "discoverable credentials" in CTAP 2.1.

Whether the CTAP 2.1 "user verification always" feature is activated or deactivated after an authenticator reset is vendor-specific.