

Bootloader settings

- Area reserved to store the state of the bootloader
 - Version of the settings
 - Application version
 - Bootloader version
 - Current size and layout of the banks
 - SoftDevice start address
 - State of DFU
 - Init command
- Last page of flash on the system
- If there is no bootloader settings → DFU Mode
- If there is wrong CRC → DFU Mode
- For security, products should ship with generated settings page

Bootloader settings (Contd')

- Generate setting file

```
C:\> nrfutil settings generate --family NRF52 --yourapplication.hex --application-version 1 --bootloader-version 1 --bl-settings-version 1 bootloader_settings.hex
```

- Combine bootloader firmware and setting file

```
C:\> mergehex -m %bootloader_hex% %app_hex% bootloader_settings.hex -o nrf_bootloader_and_app.hex
```

- Erase and flash SoftDevice

```
C:\> nrfjprog --reset --program %sd_hex% -f nrf52 --chiperase
```

- Flash combined bootloader and application firmware

```
C:\> nrfjprog --reset --program nrf_bootloader_and_app.hex -f nrf52
```