

# Table of Contents

**Fingerprint API** ..... 1

**Structure** ..... 1

BS2Fingerprint ..... 1

# Fingerprint API

API that provides functions to scan, extract, and compare fingerprint template data.

- [BS2\\_ScanFingerprint](#): Scans a fingerprint from a device and extracts template data.
- [BS2\\_ScanFingerprintEx](#): Scans a fingerprint from a device and extracts template data and scan image scores.
- [BS2\\_VerifyFingerprint](#): Compares the template data to check if it is the same finger.
- [BS2\\_GetLastFingerprintImage](#): Extracts the image of the last scanned fingerprint using the BS2\_ScanFingerprint API.

## Structure

### BS2Fingerprint

```
typedef struct {  
    uint8_t index;  
    uint8_t flag;  
    uint8_t reserved[2];  
    uint8_t data[BS2_TEMPLATE_PER_FINGER][BS2_FINGER_TEMPLATE_SIZE];  
} BS2Fingerprint;
```

#### 1. *index*

The index of finger. This is a flag that user can manage manually, not changing automatically. If you want to manage fingerprint index, please assign a number when you enroll fingerprint.

#### 2. *flag*

Flag that indicates the purpose of the fingerprint.

Value	Description
0	Normal fingerprint
1	Duress fingerprint

#### 3. *reserved*

Reserved space.

#### 4. *data*

The data of fingerprint template.

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