



Release Notes for DERMALOG AFIS Product:
*DERMALOG Mobile Biometric SDK
for Android*

Release Notes Information

Published by	DERMALOG Identification Systems GmbH
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Product Release Information

Product Name	<i>DERMALOG Mobile Biometric SDK for Android</i>
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Release Number	2.2.2
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Release Date (dd-mm-yyyy)	25-04-2022
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Customer Support	For more information or support, please visit our website or email us at support@dermalog.de
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Introduction

The DERMALOG Mobile Biometric SDK for Android offers a set of development tools for biometric applications. It gives you the ability to:

- Capture fingerprints with the
 - DERMALOG Fingerprint Scanner F1
 - DERMALOG Fingerprint Scanner ZF1
 - DERMALOG Fingerprint Scanner TF10
 - Integrated Biometrics Columbo
 - Integrated Biometrics Sherlock
 - Suprema BioMini 2
 - Suprema BioMini 3
- Check the quality of fingerprint images (NISTIR 7151-NFIQ)
- Encode a fingerprint image into a fingerprint template
- Verify fingerprint templates (1:1)
- Convert fingerprint images in various formats (BMP, JPEG2000, WSQ, PNG)
- Access device specific features with a unified hardware abstraction layer for the
 - DERMALOG SVT 3000 SE
 - DERMALOG SVT 4000 SE
 - DERMALOG SVT 4500
 - DERMALOG SVT 4500 SE
 - DERMALOG SVT 5008

The hardware abstraction layer for DERMALOG Android devices provides access to:

- Hardware power management
- Thermal printer
- Smart card reader



The DERMALOG Mobile Biometric SDK for Android consists of the following components:

	Type	Version
DermalogBiometricPassportSdk	aar	1.15.1.2207
DermalogBiometricPassportSdk	jar	1.19.0.2206
DermalogBPZF1Plugin	aar	1.11.1.2207
DermalogBPTF10Plugin	aar	1.6.1.2208
DermalogBPSupremaBioMiniPlugin	aar	1.5.0.2217
DermalogFourprintSegmentation2	aar	1.20.0.2208
DermalogImageContainer	aar	2.5.2.2111
DermalogFingerCode3	aar	3.8.1.2130
DermalogNistQualityCheck	aar	1.9.0.2130
DermalogAndroidCommon	aar	2.1.3
DermalogCommon	jar	1.2.1.2147
DermalogHardwareDevicesCommon	aar	2.5.0
DermalogHardwareSVT3000SE	aar	2.1.2
DermalogHardwareSVT4000SE	aar	2.6.1
DermalogHardwareSVT4500SE	aar	1.5.1.2214
DermalogHardwareSVT5008	aar	1.1.0.2207
DermalogJNA	aar	5.4.0.4
jna	jar	5.4.0
Suprema BioMini	aar	2.1.0.194
DermalogDiagnostic	apk	3.3.4.2214
DermalogHAL	apk	2.7.7



Installation and (Upgrade) Notes	<p>Installation Extract the SDK archive and open the example gradle project.</p> <p>Manifest This release consists of the following items:</p> <ul style="list-style-type: none">• Product installer binary <p>The following directories will be installed:</p> <ul style="list-style-type: none">• JavaDoc• Demo application• Tutorial files• Library files (AAR)• Diagnostic tool <p>Minimum System Requirements are:</p> <p><u>Operating System:</u> Android 5.0 or higher <u>System Processor:</u> armeabi-v7a with NEON, arm64-v8a <u>System Memory:</u> 1024 MB</p> <p><u>USB:</u> Host-USB support</p>
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Known Problems & Workarounds	<p>LF1</p> <ul style="list-style-type: none">The DERMALOG Fingerprint Scanner LF1 is using USB isochronous transfer mode. Some Android devices do not support this transfer mode. <p>Scanner access via DermalogEmbeddedBiometrics</p> <p>Starting with version 2.0.0 the library DermalogEmbeddedBiometrics for scanner access, template creation and matching and image conversion was removed.</p> <p>All functionality can be achieved by using the included libraries:</p> <ul style="list-style-type: none">Scanner access: DermalogBiometricPassportFingerprint Template creation and matching: DermalogFingerCode3NIST Quality calculation: DermalogNistQualityCheck
Recent Changes	<p>Version 2.2.2 (2022-04-25)</p> <ul style="list-style-type: none">Suprema BioMini: Add Feature FINGER_MASK_SENSITIVITY <p>Version 2.2.1 (2022-04-08)</p> <ul style="list-style-type: none">SVT4500: Patches for missing Iris power <p>Version 2.2.0 (2022-04-04)</p> <ul style="list-style-type: none">Add SVT4500 supportSVT4500/SVT4500 SE: Add Suprema dependency to tutorial App <p>Version 2.1.0 (2022-02-03)</p> <ul style="list-style-type: none">Add SVT5008 supportAdd Suprema BioMini supportTutorial: Use local Maven repository for dependency resolution <p>Version 2.0.0 (2022-01-20)</p> <ul style="list-style-type: none">Add SVT4500SE supportAdd DermalogBiometricPassportSDK for scanner accessAdd DermalogImageContainer for image format conversionAdd DermalogFingerCode3 for fingerprint template creation and verificationAdd DermalogNistQualityCheck with NFIQ1 and NFIQ2 supportRemoved SVT3000 supportRemoved SVT4000 supportRemoved DermalogEmbeddedBiometrics



- Removed DermalogImageIO

Version 1.4.1 (2018-11-22)

- Minor bugfixes for SVT3000SE and SVT4000SE

Version 1.4.0 (2018-05-31)

- Add SVT3000SE support

Version 1.3.0 (2018-02-08)

- Add SVT4000SE support
- Add arm64-v8a support
- Add build flavors for HAL plugins

Version 1.2.1 (2017-05-29)

- NFC card reader: Change foreground dispatch method to static

Version 1.2.0 (2017-05-29)

- Add SVT 4000 support (prototype)
- Card reader interface includes Android NFC wrapper

Version 1.1.0 (2017-01-18)

- Add smart card reader support
- Power manager
 - Interface change: Add open and close method to the interface
 - Fix SVT 3000 issue with
PowerType.USB_FINGERPRINT_SCANNER
- Update tutorial

Version 1.0.0 (2016-12-22)

- Initial release
 - Add power management for SVT 3000
 - Add thermal printer interface