

# UFED 4PC, UFED Touch 2 and UFED InField v7.23

## September 2019

Now supporting: 29,438 device profiles

Forensic Methods	v.7.23	Total
Logical extraction	118	11,554
Physical extraction*	121	7,224
File system extraction	136	7,203
Extract/disable user lock	127	3,457
<b>Total</b>	<b>502</b>	<b>29,438</b>

\*Including GPS devices

The number of unique mobile devices with passcode capabilities is 5,450

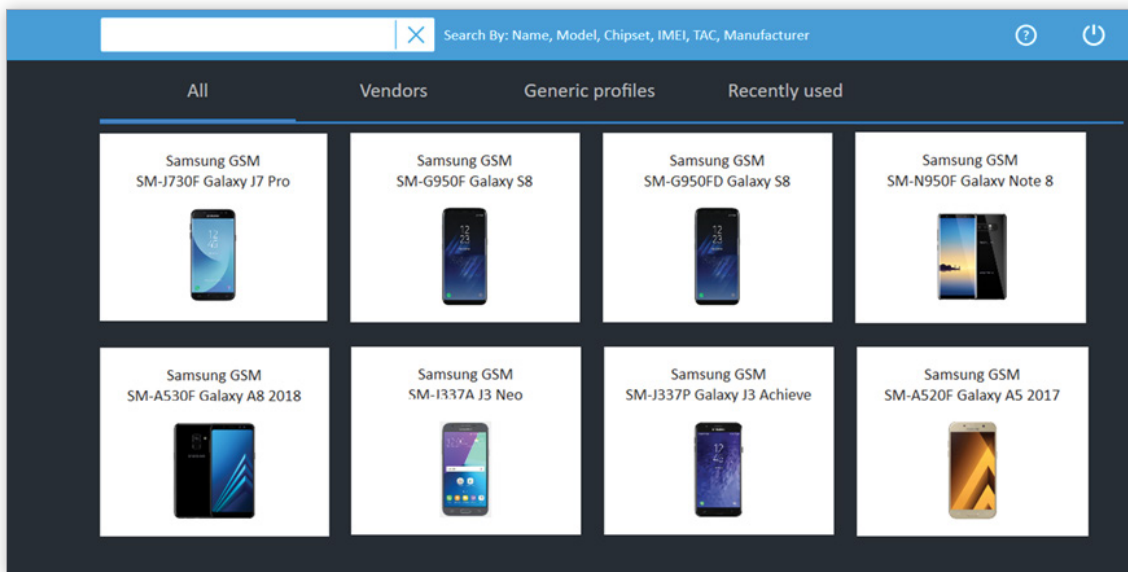
### Industry-First: Lock-Bypassing Physical Support for Exynos driven Samsung Galaxy S9 and Samsung Galaxy S8 devices

As Samsung continues to dominate the smartphone market with over 32% global market share, the need to extract new or previously untapped digital evidence and prepare for future evidence produced by the next generation of Samsung devices continues to be a Cellebrite mission, as we seek to grow the list of supported devices.

Cellebrite is pleased to be the first vendor to introduce a lock-bypassing physical extraction for the Exynos driven Samsung Galaxy S9 series running all operating system versions. This includes the most recent Android 9 Pie operating system, which has a [usage share](#) of close to 11% worldwide.\*

In UFED 7.23, you will notice that we have added updates to our ground-breaking **Samsung Exynos Decrypting bootloader** capability. With this update you can now perform lock-bypassing physical extraction on 10 new device models of Samsung with the Exynos chipset.

This includes extraction from flagship device models such as Samsung SM-G960F Galaxy S9, SM-G965F Galaxy S9+, Samsung SM-N960F Galaxy Note 9, Samsung SM-G955F Galaxy S8+, Samsung SM-G950FD Galaxy S8 and many others.



A comprehensive list of supported devices can be found in the [Phone list](#) section.

## Exclusive access to the Exynos driven A and J series devices

Cellebrite is the first and only vendor to provide you with a generic solution that enables access to the entire Samsung spectrum of devices, mid-tier through flagship devices. In this version we introduce support for dozens of popular, low to mid-tier models from the A series and J series – all supported up to Android 9 Pie and running the latest firmware version.

Supported devices include: Samsung SM-J737P Galaxy J7, Samsung SM-J737U Galaxy J7 Top, Samsung SM-J327W Galaxy J3 Prime, Samsung SM-A750FN Galaxy A7 (2018) duos, to name a few.

To see a detailed list of supported devices, refer to the [Phone list](#) section.

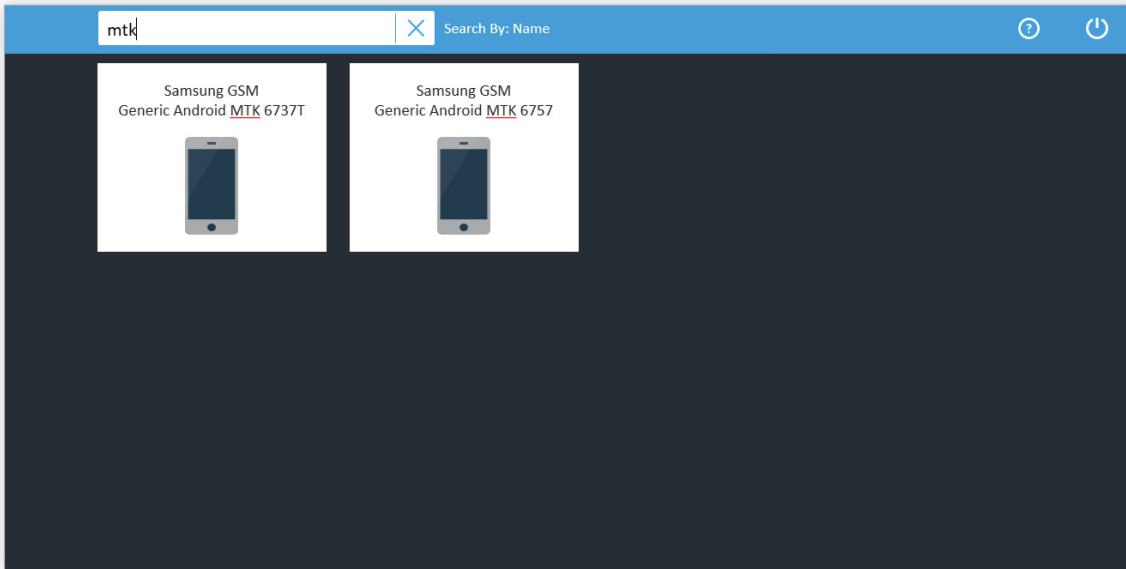
## New support for Samsung MediaTek (MTK) and SpreadTrum based devices

Previously, extracting data from Samsung MediaTek (MTK) and SpreadTrum based devices was done using either logical extraction or by performing an APK downgrade. In this new UFED version, we are pleased to announce that a new generic profile has been added that enables lock-bypassing, physical extraction from these devices.



Examples of newly supported devices with the MTK chipset include; SM-G532M J2 Prime, SM-C7100 Galaxy C8, SM-C710F/DS Galaxy J7 and SM-G615F Galaxy J7 Max.

Examples of newly supported devices with the SpreadTrum chipset include; SM-J320F Galaxy J3 (2016), SM-J320FN Galaxy J3 (2016), SM-J106H/DS Galaxy J1 Mini Prime and SM-J111F/DS Galaxy J1 Ace Neo.



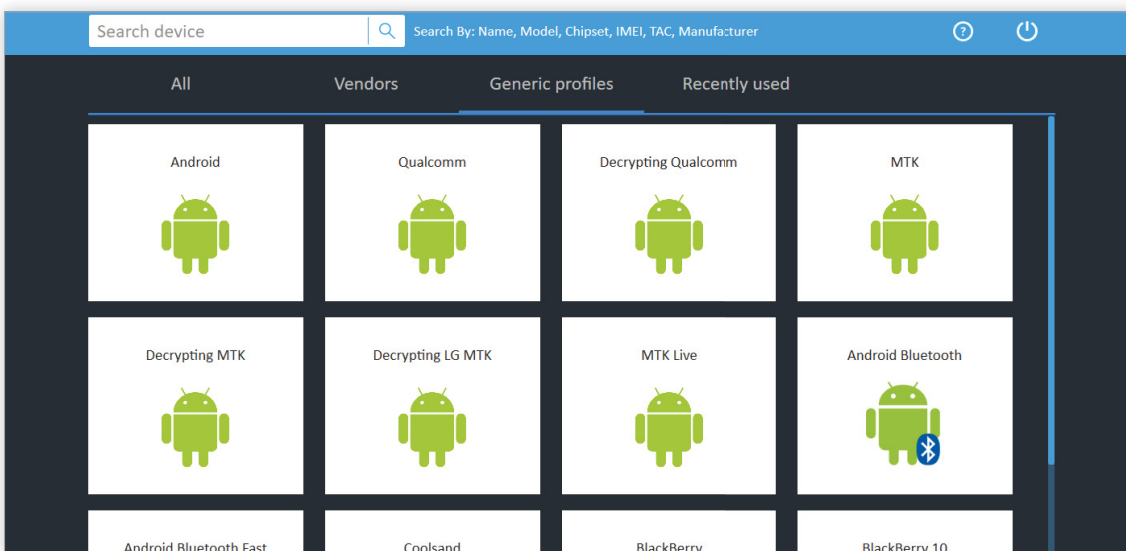
To see a detailed list of supported devices, refer to the [Phone list](#) section.

## MTK Live - A generic physical extraction support for unlocked MTK devices

MediaTek is one of the top 5 leading players in the global system-on-chip (SoC) market, and an important chip maker in the Android smartphone ecosystem, focusing on the low-end/economy range of devices. These include devices such as Xiaomi's Redmi 6, Nokia's 5.1 plus, as well as many low budget devices.

MTK Live supports a physical extraction of unlocked MTK devices with ADB enabled, with a high success probability. The method's chipset compatibility and coverage was tested on a wide variety of models, and can be safely attempted on any MTK device. As of this release, MTK Live will support devices running Android OS versions up to 8.1 (included).

**Stay tuned for additional updates and expanded device support in the upcoming UFED version.**



## Motorola devices added to the UFED Extraction Flows wizard

As part of our ongoing efforts to enhance the usability of our UFED software, we have incorporated a step-by-step guide that highlights the optimal extraction path per device vendor and chipset to help you retrieve the maximum amount of data.

[Get the extraction flow guide here](#)

## UFED Governance and Control

This version of UFED introduces new capabilities that enable tighter control of UFED permissions from the Central Management System (CMS) or using the standalone permissions utility.

Administrators can better manage user permissions, controlling the options available to the users while operating the UFED software.

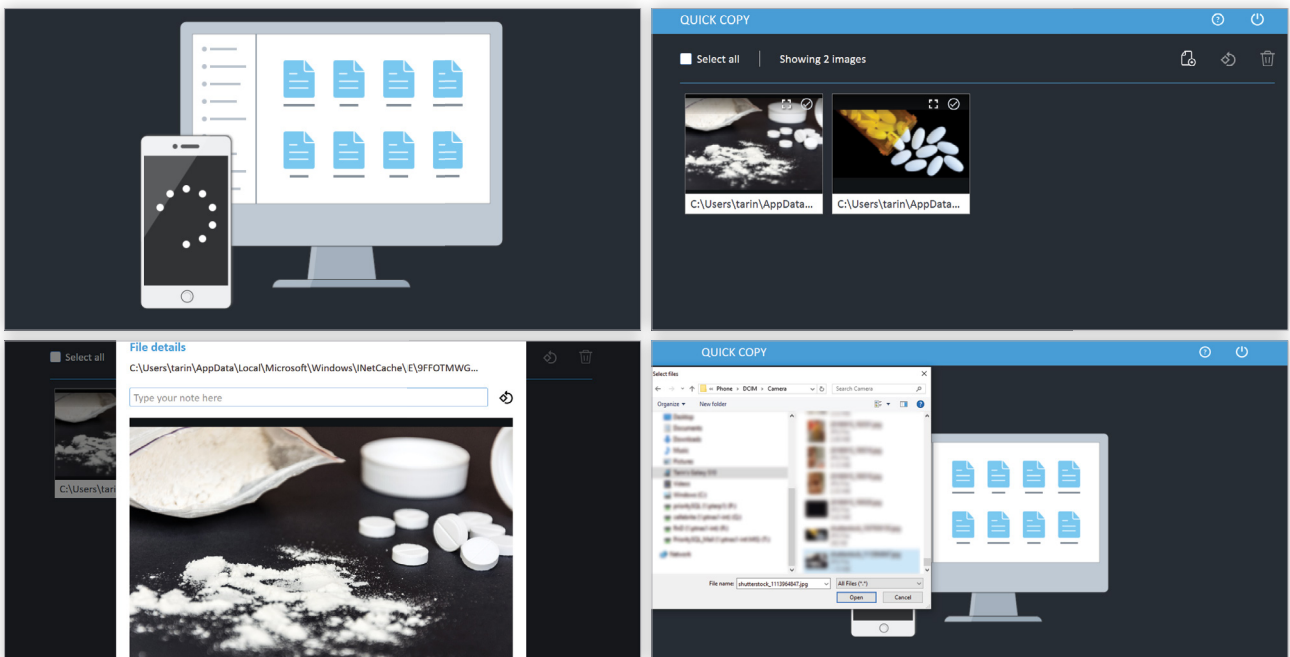
Under the new user permissions settings, admins can enable and disable options on the UFED home screen and throughout the extraction workflow. This is valuable when trying to standardize work processes across the organization, while adapting the process to the user's level of expertise and the organization policies.

Administrators using the CMS, are better equipped to enforce policies across dispersed UFED units ensuring that;

- Users of the Individual UFED units update the software within a given time window.
- Users of individual UFED units are not "offline" for longer than the defined period otherwise the admin can choose to lock the end point.
- Extractions and UFED inField reports are saved to a pre-configured and set location.

## New UI for the Quick Copy capability

To improve the usability of the UFED InField solution, we have introduced a new interface for the Quick Copy flow.



## More Product Enhancements

1. Following customer feedback, we have enhanced the APK downgrade with the ability to extract Media files and combine them to a single extraction.
2. With the new Advanced Logical SIM Extraction, you can now extract both SIM partitions simultaneously to reduce the total time of an extraction and gain maximum results.

## Solved Issues

1. The UFED application sometimes crashes during an Android advanced logical flow
2. 'Missing EPR' message in Samsung Exynos decrypting bootloader
3. Missing Call logs for Nokia 105 (RM-1134) when performing logical extraction
4. Failure while performing Physical extraction for the Kyocera S1310 device
5. Failure when trying to extract Apps Data from Huawei Ascend devices

## Known Limitations

Support for iOS 13 is currently in the works. We hope to provide an update soon.

## Phone List

### Samsung Exynos Decrypting bootloader for 10 newly supported devices

Samsung GSM	SM-G950N Galaxy S8, SM-N950F Galaxy Note 8, SM-N960F Galaxy Note 9, SM-G950F Galaxy S8, SM-G950FD Galaxy S8, SM-G955FD Galaxy S8+, SM-G955F Galaxy S8+, SM-G965F Galaxy S9+, SM-G965N Galaxy S9+, SM-G960F Galaxy S9
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### Exclusive access to 34 Exynos driven A and J series devices

Samsung GSM	SM-J327W Galaxy J3 Prime, SM-J337A J3 Neo, SM-J337P Galaxy J3 Achieve, SM-J337U Galaxy, SM-J337V Galaxy J3 V, SM-J337VPP Galaxy J3, SM-J260A Galaxy J2 Core, SM-J330FN Galaxy J3, SM-G390F Galaxy Xcover 4, SM-J400F_DS Galaxy J4, SM-A810S Galaxy A8 2016, SM-J600G_DS Galaxy J6, SM-J600F Galaxy J6 (2018), SM-J600FN_DS Galaxy J6, SM-J260T1 Galaxy J2, SM-A600P Galaxy A6, SM-J737V Galaxy J7 Verizon, SM-A600A Galaxy A6, SM-A600FN Galaxy A6 (2018), SM-S367VL Galaxy J3 Orbit, SM-S767VL Galaxy J7 Crown Prepaid, SM-J730F Galaxy J7 Pro, SM-J730GM_DS Galaxy J7 Pro, SM-J730FM Galaxy J7, SM-J737T Galaxy J7 Star, SM-J737T1 Galaxy J7 Star, SM-J737P Galaxy J7 Refine, SM-J737U Galaxy J7 Top, SM-J701M_DS Galaxy J7 Neo, SM-J701F_DS Galaxy J7 Core, SM-A750FN Galaxy A7 (2018) duos, SM-A530F Galaxy A8 2018, SM-A530W Galaxy A8 2018, SM-J737VPP Galaxy J7
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### Physical bypass for 11 Samsung SpreadTrum devices



Samsung GSM	SM-J320F Galaxy J3 2016, SM-J320FN Galaxy J3 2016, SM-J105B\DS Galaxy J1 mini 2016, SM-J106B, SM-J111F, SM-J106H\DS Galaxy J1 mini Prime, SM-J110H Galaxy J1, SM-J111M Galaxy J1 ace VE LTE, SM-J120H\DS Galaxy J1 2016, SM-T285M Galaxy Tab A 7.0 (2016), SM-J320H Galaxy J3 2016
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### Physical extraction for 8 MTK based devices

Blackview	BV5800
Doro	DSB-0090 8040
Chinese Android phones	UMIDIGI A3 Pro_DS
Nokia GSM	TA-1049 3.1
Tecno	A9 Phantom 6 Plus
Wiko	W-V600 Harry2
Xiaomi	M1804C3CG Redmi 6A, M1804C3DE Redmi 6

### Physical extraction while bypassing lock

92 newly supported devices	
AU	IS12M (XT909)
Alcatel	5044S U50, Vodafone 555 Blue,5095I Pop 4S, 5080X One Touch Shine Lite, 5058Y A5 LED
Asus	ZC553KL Zenfone 3 Max
Blackview	BV6000
Digicel	DL800
Doogee	X55
Gionee	S10
HTC	6275, PB99400 Desire CDMA
Hisense	F23
Huawei	Huawei
Kyocera	404KC Digno C
LYF	LS-5501 Earth 1, LYF LS-5507 Water 7S
Lava	A44_DS
Leagoo	S8 PRO
LG GSM	M250N K10 2017, US601 X
Chinese phones	X8
Chinese Android phones	-Nuu Mobile NUU_A3 A3, Bluboo S8a, VLE5 Hot Pepper Poblano, iVooMi Me 3, Fake Samsung SM-G9006V Galaxy S5
Micromax	Q462 Canvas 5 Lite
Myria	MY9004_DS Myria Grand, Brand MY9053_DS Myria Wide 2
Nokia GSM	106(TA-1114), Nokia 210 (TA-1139), 130 (TA-1019), TA-1030 3310 (2017)



Samsung GSM	SM-T285 Galaxy Tab A (2016), SM-J337R4 Galaxy J3 Aura, SM-J337U Galaxy, SM-J337V Galaxy J3 V, SM-J337VPP Galaxy J3, SM-J260A Galaxy J2 Core, GT-E2121B, SM-J710MN_DS Galaxy J7 Metal 2016, SM-J320F Galaxy J3 2016, SM-J320FN Galaxy J3 2016, SC-05G (Galaxy S6), SM-J105B\DS Galaxy J1 mini 2016, SM-DS Galaxy J1 Mini Prime, SM-J106B, SM-DS Galaxy J1 Ace Neo, SM-J111F, SM-J106H\DS Galaxy J1 mini Prime, SM-J110H Galaxy J1, SM-J111M Galaxy J1 ace VE LTE, SM-J120H\DS Galaxy J1 2016, SGH-T139, SM-T285M Galaxy Tab A 7.0 (2016), SM-J337A J3 Neo, SM-J337P Galaxy J3 Achieve, SM-J320H Galaxy J3 2016, SM-J400F_DS Galaxy J4, SM-J600FN_DS Galaxy J6, SM-J260T1 Galaxy J2, SM-A600P Galaxy A6, SM-J737V Galaxy J7 Verizon, SM-A600A Galaxy A6, SM-S367VL Galaxy J3 Orbit, SM-S767VL Galaxy J7 Crown Prepaid, SM-G532M Galaxy J2 Prime, SM-G532G_DS Galaxy J2 Prime, SM-C710F_DS Galaxy J7+, SM-J737T Galaxy J7 Star, SM-J737T1 Galaxy J7 Star, SM-J737P Galaxy J7 Refine, SM-J737U Galaxy J7 Top, SM-J701M_DS Galaxy J7 Neo, SM-A750FN Galaxy A7 (2018) duos, SM-G950N Galaxy S8, SM-C7100 Galaxy C8, SM-N960F Galaxy Note 9, SM-G965F Galaxy S9+, SM-G965N Galaxy S9+, SM-G960F Galaxy S9, SM-A530F Galaxy A8 2018, SM-A530W Galaxy A8 2018, SM-G615F Galaxy J7 Max
Sky	ELITE 6.0L+_DS
Tablets	Samsung GT-P3113TS Galaxy Tab 2 7.0
Tecno	A9 Phantom 6 Plus
Turkcell	T60
VIVO	1611_DS V5 Plus

## Physical extraction

121 newly supported devices	
AU	FJL22 (ARROWS Z), L01 UBANO (KYY21), SHV31 (AQUOS SERIE mini), IS12M (XT909), IS11S XPERIA acro
AVEA	InTouch4
Alba	ACF18_DS
Alcatel	5044S U50, A501DL TCL A1, 5008D_EEA 1X, 5059A 1X, 5059Z 1X, Vodafone 555 Blue
Asus	ZC553KL Zenfone 3 Max, Z008D Zenfone 2
BLU	Z4_DS Bold
BlackBerry GSM	9300 Curve, 9700 Bold
Celkon	C2233
Digicel	DL800
Doogee	X55
Doro	DFB-0210 1370
Emobile	GS03
HTC	2Q7A100 U19e, Desire 19+
Huawei	STK-L21 Y9, MAR-AL00 nova 4e, HRY-AL00Ta Honor 20i, MRD-AL00_DS Enjoy 9e, POT-AL00a Enjoy 9s, YAL-AL10 Honor 20 PRO, SCL-L01 Y6, ARE-AL00_DS Honor 8x Max
Intex	TURBO 2400_DS, 3000_DS Ultra
Karbons	K33, Frames S9_DS
Kyocera	201K Honey Bee



LYF	LS-5201 Water F1S, LS-5501 Earth 1
Lava	A44_DS
Lenovo	L38111_DS Z6 Youth, P1a42 Vibe P1
LG GSM	LM-Q710MS_DS Stylo 4, LM-X210WM K9, LM-G810EA G8S ThinQ, LM-Q720PS Stylo 5
Chinese phones	NOMI i246, X-TIGI G20_DS, Chinese Brand KU9 Konka, ROCKR Max Kosher, B201i Lemon, Sonica M1, Sonica M1 Plus, X8, SIGMA X-style 28 Flip
Chinese Android phones	Nuu Mobile NUU_A3 A3, VLE5 Hot Pepper Poblano, Itel A12, Xiaolajiao 20190325D_DS 8X, Meitu MP1801 V7, iVooMi Me 5, iVooMi Me 3, Fake Samsung SM-G9006V Galaxy S5
Meizu	M926Q 16Xs
Micromax	Q462 Canvas 5 Lite, Q4101 Vdeo 2
MobiWire	Sakari, Pictor
Motorola GSM	XT1925-5_DS Motorola Moto G6, Fake I867 Ferrari, XT1970-1 One Vision, XT1980-4 Moto Z4, XT1662 Moto M, XT1925-12 Moto G6, XT1925-13_DS Moto G6
Myria	MY9004_DS Myria Grand, MY9076_DS L500, MY9078_DS Myria L600, Brand MY9053_DS Myria Wide 2
NTT Docomo	L-03K(LG style), SH-04E, T-02D, SH-05F, L-05E(Optimus it), N-04E, SH-02G, SC-05D GALAXY NOTE, SO-01C Xperia arc, SO-04F(Xperia A2), SO-05D, SH-06E(AQUOS PHONE ZETA), SO-02G Xperia Z3 Compact
Nokia GSM	106(TA-1114), TA-1100 7.1, Nokia 210 (TA-1139), 130 (TA-1019)
Oppo	PCGM00_DS K3, PBBM30 A5
Panasonic	Eluga A3 Pro
Polaroid	A2_DS, A500_DS
Realme	RMX1851_DS X Lite, RMX1901 Realme X
Samsung GSM	SM-A805F A80, SM-T927A Galaxy View 2 Tablet, SM-T285 Galaxy Tab A (2016), SM-N975F Galaxy Note 10+, SM-N970F Galaxy Note 10, SM-J337R4 Galaxy J3 Aura, SM-J337U Galaxy, SM-J337V Galaxy J3 V, SM-J337VPP Galaxy J3, SM-J260A Galaxy J2 Core, GT-E2121B, SM-J710MN_DS Galaxy J7 Metal 2016
Sky	ELITE 6.0L+_DS, Platinum 6.0+_DS
SoftBank	301F(Arrows A), 304SH, 302SH(AQUOS PHONE Xx), 205SH
Sony (SonyEricsson)	G3311 Xperia L1, J9110 Xperia 1
Tablets	SM-T285M Galaxy Tab A 7.0 (2016)
Toshiba	IS04 Regza
Turkcell	T60
VIVO	V1813A_DS Z3i, V1911A_DS Z5x, V1814A_DS X21s, V1831A_DS S1, V1832A_DS S1 Pro, V1901A_DS Y3, 1724 Y71, V1838A_DS X27, V1836A X27 Pro, V1813BT_DS Z3, 1611_DS V5 Plus
Wiko	Lubi5_DS, C210AE
Xiaomi	M1903F10G_DS Mi 9T, SKW-A0 Black Shark 2
ZTE GSM	Nubia NX619J_DS Red Magic Mars, Nubia NX629J_DS Red Magic 3, Blade V1000 V1

## File system extraction while bypassing lock





58 newly supported devices	
AU	IS12M (XT909)
Alcatel	5095I Pop 4S, 5080X One Touch Shine Lite, 5058Y A5 LED
Blackview	BV6000
Lava	A44_DS
Chinese Android phones	Nuu Mobile NUU_A3 A3, iVooMi Me 3, Maze Alpha, Bluboo S8a
Gionee	S10
Hisense	F23
HTC	6275, PB99400 Desire CDMA
Huawei	NMO-GT3, NMO-L31 GR5 Mini
Leagoo	S8 PRO
LG GSM	M250N K10 2017, US601 X
LYF	LYF LS-5507 Water 7S
Micromax	Q462 Canvas 5 Lite
Samsung GSM	SM-T285 Galaxy Tab A (2016), SM-J337R4 Galaxy J3 Aura, SM-J337U Galaxy, SM-J337V Galaxy J3 V, SM-J337VPP Galaxy J3, SM-J260A Galaxy J2 Core, SM-J710MN_DS Galaxy J7 Metal 2016, SM-DS Galaxy J1 Mini Prime, SM-J106B, SM-DS Galaxy J1 Ace Neo, SM-J111F, SM-J110H Galaxy J1, SM-J337A J3 Neo, SM-J337P Galaxy J3 Achieve, SM-J400F_DS Galaxy J4, SM-J600FN_DS Galaxy J6, SM-J260T1 Galaxy J2, SM-A600P Galaxy A6, SM-J737V Galaxy J7 Verizon, SM-S367VL Galaxy J3 Orbit, SM-S767VL Galaxy J7 Crown Prepaid, SM-G532G_DS Galaxy J2 Prime, SM-J737T Galaxy J7 Star, SM-J737T1 Galaxy J7 Star, SM-J737P Galaxy J7 Refine, SM-J737U Galaxy J7 Top, SM-J701M_DS Galaxy J7 Neo, SM-A750FN Galaxy A7 (2018) duos, SM-G950N Galaxy S8, SM-N960F Galaxy Note 9, SM-G965F Galaxy S9+, SM-G960F Galaxy S9, SM-A530F Galaxy A8 2018, SM-A530W Galaxy A8 2018, SM-G615F Galaxy J7 Max
Sky	ELITE 6.0L+_DS, Platinum 6.0+_DS
Tablets	SM-T285M Galaxy Tab A 7.0 (2016)
Tecno	A9 Phantom 6 Plus
LYF	LS-5201 Water F1S, LS-5501 Earth 1

## File system extraction



136 newly supported devices	
AU	FJL22 (ARROWS Z), L01 UBANO (KYY21), SHV31 (AQUOS SERIE mini), IS12M (XT909), IS11S XPERIA acro
AVEA	InTouch4
Alba	ACF18_DS
Alcatel	5044S U50, 50980 Pixi Theatre, A501DL TCL A1, 5008D_EEA 1X, 5059A 1X, 5059Z 1X
Apple	iPad MR6N2CL_A, iPhone Xs Max (A2101), iPhone Xs Max (A2104)
Asus	ZC553KL Zenfone 3 Max, Z008D Zenfone 2
BLU	Z4_DS Bold
BlackBerry GSM	9300 Curve, 9700 Bold
Celkon	C2233
Digicel	DL800
Doogee	X55
Doro	DFB-0210 1370
Emobile	GS03
Gionee	S10
HTC	2Q7A100 U19e, Desire 19+
Huawei	STK-L21 Y9, MAR-AL00 nova 4e, HRY-AL00Ta Honor 20i, MRD-AL00_DS Enjoy 9e, POT-AL00a Enjoy 9s, YAL-AL10 Honor 20 PRO, SCL-L01 Y6, ARE-AL00_DS Honor 8x Max
Intex	TURBO 2400_DS, 3000_DS Ultra
Karbons	K33, Frames S9_DS
Kyocera	201K Honey Bee
LYF	LS-5201 Water F1S, LS-5501 Earth 1
Lava	A44_DS
Lenovo	L38111_DS Z6 Youth, P1a42 Vibe P1
LG GSM	LM-Q710MS_DS Stylo 4, LM-X210WM K9, LM-G810EA G8S ThinQ, LM-Q720PS Stylo 5
Chinese phones	NOMI i246, X-TIGI G20_DS, Chinese Brand KU9 Konka, ROCKR Max Kosher, B201i Lemon, Sonica M1, Sonica M1 Plus, X8, SIGMA X-style 28 Flip, Slider W50B
Chinese phones	X-TIGI G20_DS
Chinese Android phones	Nuu Mobile NUU_A3 A3, VLE5 Hot Pepper Poblano, Itel A12, Xiaolajiao 20190325D_DS 8X, Meitu MP1801 V7, iVooMi Me 5, iVooMi Me 3, Fake Samsung SM-G9006V Galaxy S5
Meizu	M926Q 16Xs
Micromax	Q462 Canvas 5 Lite, Q4101 Vdeo 2
MobiWire	Sakari, Pictor
Motorola GSM	XT1925-5_DS Motorola Moto G6, Fake I867 Ferrari, XT1970-1 One Vision, XT1980-4 Moto Z4, XT1662 Moto M, XT1925-12 Moto G6, XT1925-13_DS Moto G6
Myria	MY9004_DS Myria Grand, MY9076_DS L500, MY9078_DS Myria L600, Brand MY9053_DS Myria Wide 2



NTT Docomo	L-03K(LG style), SH-04E, T-02D, SH-05F, L-05E(Optimus it), N-04E, SH-02G, SC-05D GALAXY NOTE, SO-01C Xperia arc, SO-04F(Xperia A2), SO-05D, SH-06E(AQUOS PHONE ZETA), SO-02G Xperia Z3 Compact
Nokia GSM	TA-1100 7.1, Nokia 210 (TA-1139), 130 (TA-1019), Fake Nokia E79+
Oppo	PCGM00_DS K3, PBBM30 A5
Panasonic	Eluga A3 Pro
Polaroid	A2_DS, A500_DS
Realme	RMX1851_DS X Lite, RMX1901 Realme X
Samsung GSM	SM-A805F A80, SM-T927A Galaxy View 2 Tablet, SM-T285 Galaxy Tab A (2016), SM-N975F Galaxy Note 10+, SM-N970F Galaxy Note 10, SM-J337R4 Galaxy J3 Aura, SM-J337U Galaxy, SM-J337V Galaxy J3 V, SM-J337VPP Galaxy J3, SM-J260A Galaxy J2 Core, SM-J710MN_DS Galaxy J7 Metal 2016
Sky	ELITE 6.0L+_DS, Platinum 6.0+_DS
SoftBank	301F(Arrows A), 304SH, 302SH(AQUOS PHONE Xx), 205SH
Sony (SonyEricsson)	G3311 Xperia L1, J9110 Xperia 1
Tablets	SM-T285M Galaxy Tab A 7.0 (2016)
Toshiba	IS04 Regza
Turkcell	T60
UniMile	PR-600
VIVO	V1813A_DS Z3i, V1911A_DS Z5x, V1814A_DS X21s, V1831A_DS S1, V1832A_DS S1 Pro, V1901A_DS Y3, 1724 Y71, V1838A_DS X27, V1836A X27 Pro, V1813BT_DS Z3, 1611_DS V5 Plus
Xiaomi	M1903F10G_DS Mi 9T, SKW-A0 Black Shark 2, M1804C3CG Redmi 6A
ZTE GSM	Nubia NX619J_DS Red Magic Mars, Nubia NX629J_DS Red Magic 3, Blade V1000 V1

## Logical extraction

118 newly supported devices	
AU	IS11SH, IS12M (XT909), SHV31 (AQUOS SERIE mini)
AVEA	InTouch4
Alcatel	Vodafone 555 Blue, 5008D_EEA 1X, 5059A 1X, 5059Z 1X, A501DL TCL A1, 5044S U50
Apple	iPad MR6N2CL_A, iPhone Xs Max (A2101), iPhone Xs Max (A2104)
Asus	ZC553KL Zenfone 3 Max, Z008D Zenfone 2
BLU	Z4_DS Bold
BlackBerry GSM	9300 Curve, 9700 Bold
Celkon	C2233
Digicel	DL800
Doogee	X55
Doro	DFC-0190 7060, DFB-0210 1370
Emobile	GS03



HTC	2Q7A100 U19e, Desire 19+
Huawei	STK-L21 Y9, MAR-AL00 nova 4e, HRY-AL00Ta Honor 20i, MRD-AL00_DS Enjoy 9e, ARE-AL00_DS Honor 8x Max, POT-AL00a Enjoy 9s, YAL-AL10 Honor 20 PRO, SCL-L01 Y6
Intex	TURBO 2400_DS, 3000_DS Ultra
Karbons	K33, Frames S9_DS
Kyocera	201K Honey Bee
LYF	LS-5201 Water F1S, LS-5501 Earth 1
Lava	A44_DS
Lenovo	L38111_DS Z6 Youth, P1a42 Vibe P1
LG GSM	LM-Q720PS Stylo 5, LM-X210WM K9, LM-G810EA G8S ThinQ, LM-Q710MS_DS Stylo 4
Chinese phones	Sonica M1, Sonica M1 Plus, Rockr S242_DS Voda, Chinese Brand KU9 Konka, Slider W50B, X8, ROCKR Max Kosher, NOMI i246, X-TIGI G20_DS, SIGMA X-style 28 Flip, B201i Lemon
Chinese Android phones	VLE5 Hot Pepper Poblano, Nuu Mobile NUU_A3 A3, iVooMi Me 5, iVooMi Me 3, IteI A12, Xiaolajiao 20190325D_DS 8X, Meitu MP1801 V7, Fake Samsung SM-G9006V Galaxy S5
Meizu	M926Q 16Xs
Micromax	Q462 Canvas 5 Lite, Q4101 Vdeo 2
MobiWire	Pictor, Sakari
Motorola GSM	Fake I867 Ferrari, XT1925-12 Motorola G6, XT1980-4 Moto Z4, XT1925-5_DS Motorola Moto G6, XT1925-13_DS Moto G6, XT1970-1 One Vision, XT1662 Moto M
Myria	MY9004_DS Myria Grand, MY9076_DS L500, MY9078_DS Myria L600, Brand MY9053_DS Myria Wide 2
NTT Docomo	S0-01C Xperia arc, SC-05D GALAXY NOTE, S0-02G, S0-02G Xperia Z3 Compact, L-03K(LG style)
Nokia GSM	130 (TA-1019), 106(TA-1114), TA-1100 7.1, Nokia 210 (TA-1139)
Oppo	PCGM00_DS K3, PBBM30 A5
Panasonic	Eluga A3 Pro
Polaroid	A2_DS, A500_DS
Realme	RMX1851_DS X Lite, RMX1901 Realme X
Samsung GSM	SM-T927A Galaxy View 2 Tablet, SM-A805F A80, SM-N975F Galaxy Note 10+, SM-N970F Galaxy Note 10, SM-T285 Galaxy Tab A (2016), SM-J337U Galaxy, SM-J337V Galaxy J3 V, SM-J337VPP Galaxy J3, SM-J260A Galaxy J2 Core, GT-E2121B, SM-J710MN_DS Galaxy J7 Metal 2016
Sharp	SBM107SH Pantone 5 SoftBank
Sky	ELITE 6.0L+_DS, Platinum 6.0+_DS
Sony (SonyEricsson)	J9110 Xperia 1
Tablets	Samsung SM-T285M Galaxy Tab A 7.0 (2016)
Toshiba	IS04 Regza
Turkcell	T60
UniMile	PR-600



VIVO	V1813A_DS Z3i, V1911A_DS Z5x, V1814A_DS X21s, V1831A_DS S1, V1832A_DS S1 Pro, V1838A_DS X27, V1836A X27 Pro, V1901A_DS Y3, 1724 Y71, 1611_DS V5 Plus
Wiko	C210AE, Lubi5_DS
Xiaomi	M1903F10G_DS Mi 9T, SKW-A0 Black Shark 2
ZTE GSM	Nubia NX619J_DS Red Magic Mars, Nubia NX629J_DS Red Magic 3, Blade V1000 V1, Light Tab V9

## Cryptographic hash values information

Product	MD5	SHA-256 (Recommended)
Touch2 (cpkg)	c1036203b4161187a6f29919ba2d4e9d	79f447f4306c0b5796e07e8cd90cbf96def9572ef1fa7eaaa1c899b23f3ef808
4PC (cpkg)	a5ffe030e1c24e1ca5596159895bd016	8d893b89c5e71c06375d6759eb91a71070fe406c6b5a95fc0a9257415416e397
4PC (exe)	38111c32c7a3aad1a8ccbe9a431e486b	cbff44c96c797dac64eee0721d88d1ee5e00d9f337b371e9d7e6e14d84dbf323
UFED InField (cpkg)	9c5012f0e41369537fe91523de3b45e3	6207b765f986b8a2198f43ef4e4b0a8cba031c34243ade0d518633957b5712f5
UFED InField (exe)	769c279abb346603786a496e18b9d57a	f2f41a081fa14431131ad7609d814dba3139587021c890a86015549d46703a54
Permission Manager (exe)	e5283d1a48cd1e35caf7398901b49ca5	3fcee41153095908fc29bc830b08fb321e21b05e6362a8d6ceb72419df037783

