ERMAC - another Cerberus reborn

September 2021

ERMAC
New Android Banking Trojan by BlackRock actor

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Intro

On July 23 a forum post appeared regarding a new Android banking trojan. The attached screenshots show that it is named ERMAC. Our investigation shows that ERMAC is almost fully based on the well-known banking trojan Cerberus, and is being operated by BlackRock actor(s).
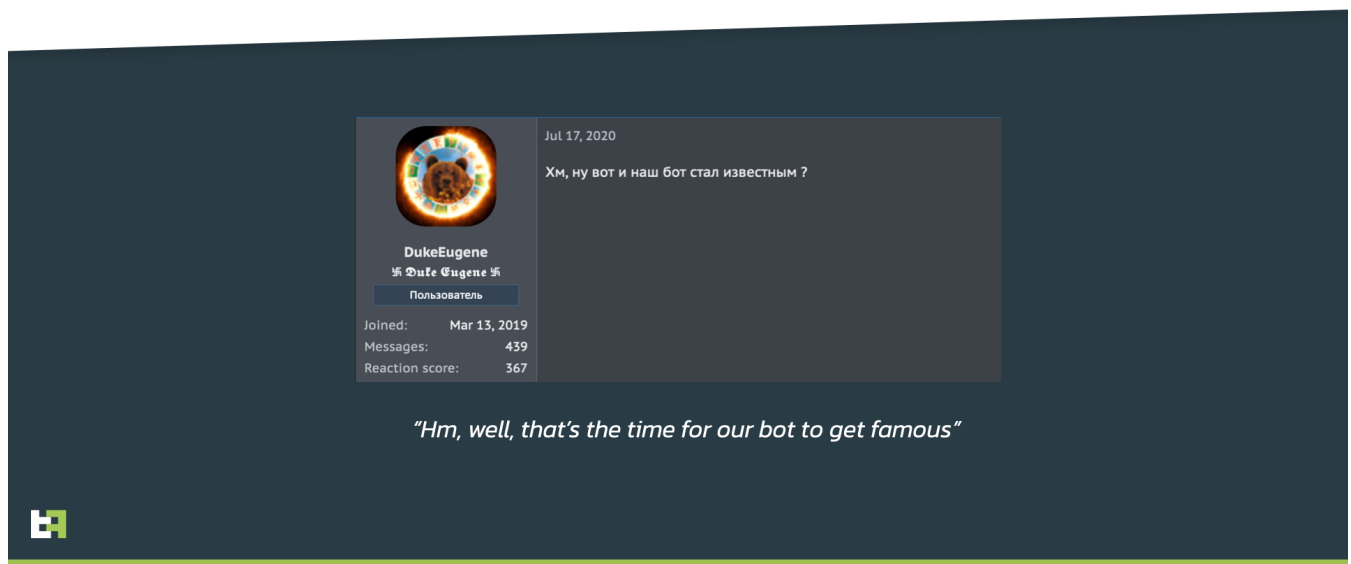
Context

On August 17, a forum member named "ermac" invited anyone interested in this topic to send a PM to make a deal. The user registered just the day before and posted a similar advertisement in his profile. Interestingly enough, the topic starter said that he found the contact 4 days earlier. On the same day, another forum member, "DukeEugene", posted a message in his account:

"Android botnet ERMAC. I will rent a new android botnet with wide functionality to a narrow circle of people (10 people). 3k$ per month. Details in PM."

DukeEugene is known as an actor behind the BlackRock banking trojan that we discovered in 2020. DukeEugene claimed to be the one of the actors shortly after we published our discovery.


BlackRock actor

Jul 17, 2020

Хм, ну вот и наш бот стал известным ?

DukeEugene
₰ 𝕯𝖚𝖐𝖊 𝕰𝖚𝖌𝖊𝖓𝖊 ₰
Пользователь

Joined:	Mar 13, 2019
Messages:	439
Reaction score:	367

"Hm, well, that's the time for our bot to get famous"

We believe that DukeEugene switched from using BlackRock in its operations to ERMAC, as we no longer saw fresh BlackRock samples since the first mentions of ERMAC. One of the reasons behind it could be that BlackRock was discredited: DukeEugene claimed on the forum that one of the buyers who got their bot for test began to scam people advertising it as a new Amplebot banking trojan. The name was taken from the BlackRock's admin panel, which was built using AmpleAdmin template, and the actors didn't change the logo and the name.

Amplebot/BlackRock panel

Screenshot from "Amplebot" demo video
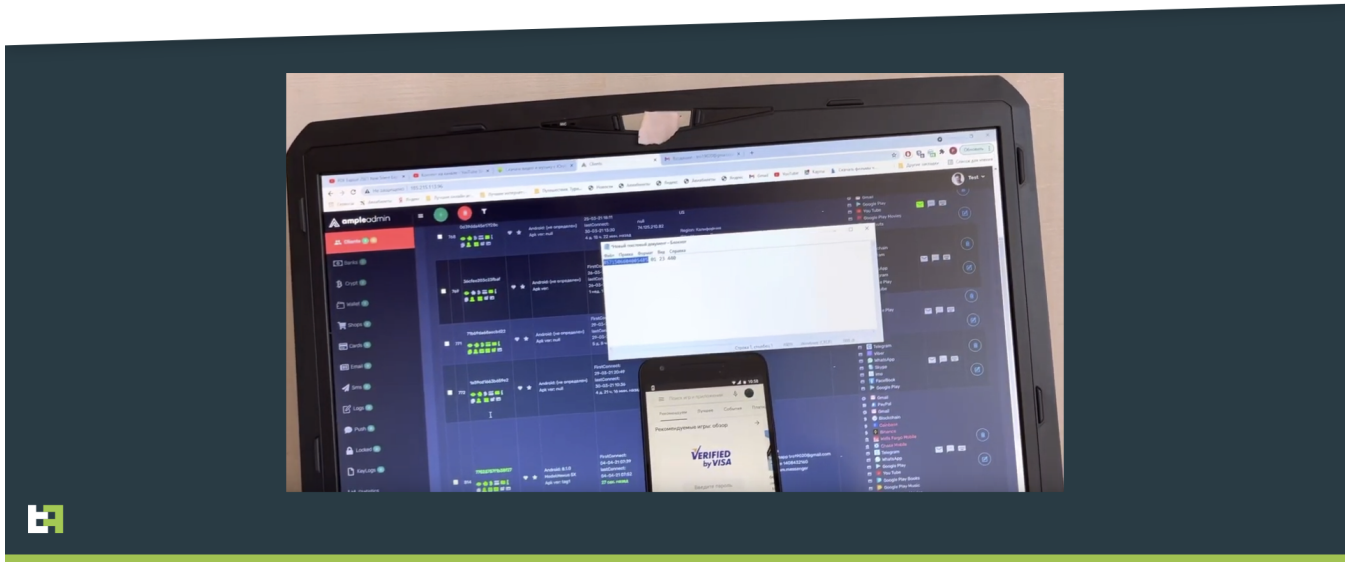
To summarize the story full of twists: a new banking malware appeared on the threat landscape called ERMAC. But is it really new?

You can't escape Cerberus

If we investigate ERMAC, we can find out that ERMAC is a code-wise inheritor of a well-known malware Cerberus. It uses almost identical data structures when communicating with the C2, it uses the same string data, et cetera.

When we first encountered ERMAC samples, we thought it to be just another variant of Cerberus since the code was leaked several times and a lot of actors try to build their own malware based on its sources. However, the admin panel login page clearly states that this is ERMAC indeed:
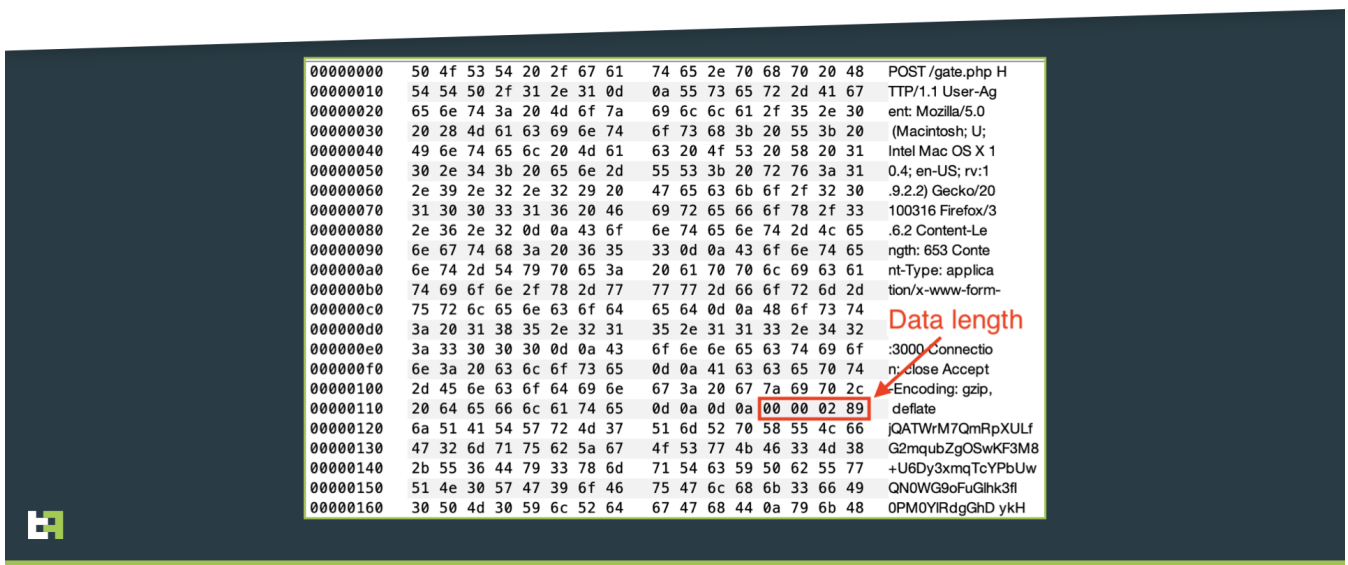
ERMAC
Control panel login page
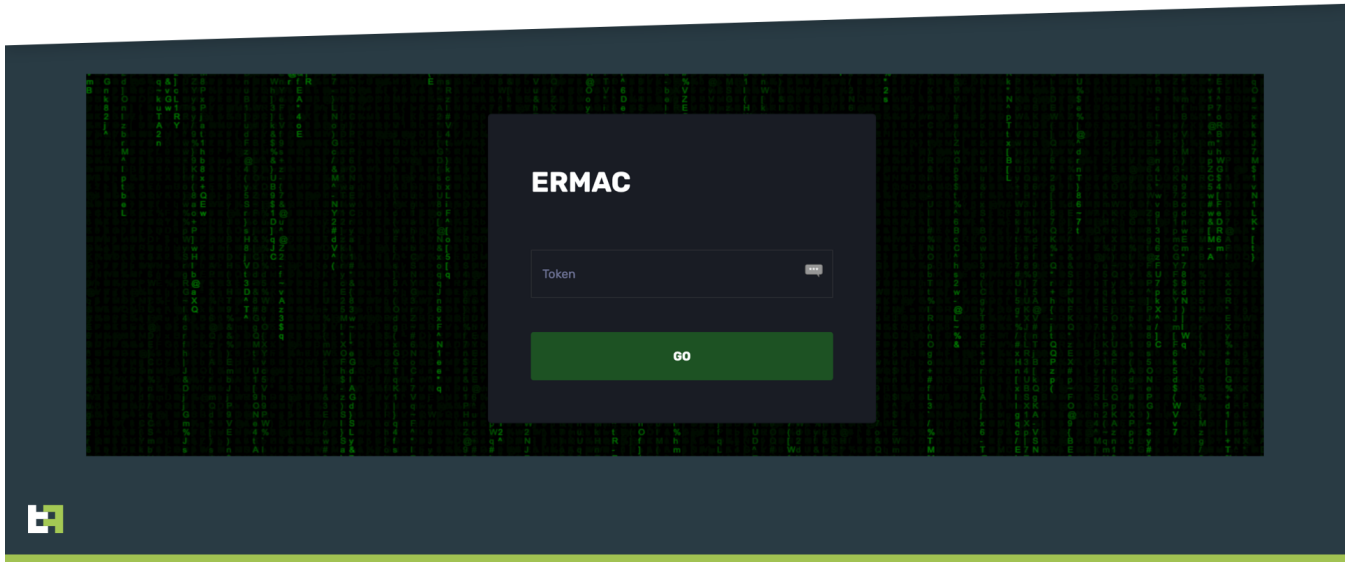
Despite the usage of different obfuscation techniques and new method of string encryption - using Blowfish encryption algorithm, we can definitely state that ERMAC is another Cerberus-based trojan.

Compared to the original Cerberus, ERMAC uses different encryption scheme in communication with the C2: the data is encrypted with AES-128-CBC, and prepended with double word containing the length of the encoded data:

ERMAC
C2 communication

Another point to support the connection between BlackRock actor(s) and ERMAC actor(s): both BlackRock and ERMAC are known to use **185.215.113.*** IP addresses as their C2.

Commands list

The commands ERMAC receives and processes, are almost identical to the latest Cerberus commands. A couple of commands are added that can clear the cache of the specified application and steal device accounts (new commands **bold**).

Command	Description
push	Shows a push notification (clicking on the notification will result in launching specified app)
startAuthenticator2	Launches the Google Authenticator application
startAdmin	Triggers request for admin privileges
startApp	Starts the specified application
getInstallApps	Gets the list of applications installed on the device
getContacts	Gets the contact names and phone numbers from the address book of the infected device
deleteApplication	Triggers the removal of the specified application
forwardCall	Enables call forwarding to the specified number
sendSms	Sends a text message with specified text from the infected device to the specified phone number
SendSMSALL	Sends text messages with specified text from the infected device to all contacts of the infected device
startInject	Triggers the overlay attack against the specified application
startUssd	Executes the specified USSD code
openUrl	Opens the specified URL in the WebView
getSMS	Gets all text messages from the infected device
killMe	Triggers the kill switch for the bot
updateModule	Updates the payload module
updateInjectAndListApps	Triggers update of the target list
clearCash/clearCashe	**Triggers opening specified application details**
getAccounts/logAccounts	**Triggers stealing a list of the accounts on the device**

Campaigns

We were able to identify several campaigns with ERMAC involved. The first major campaign started in late August where ERMAC was masquerading as Google Chrome. We have also seen ERMAC masquerading as antivirus, banking, and media player apps.

At the time of writing this blog we see ERMAC targeting Poland and being distributed under the guise of delivery service and government applications (special thanks to @malwrhunterteam):

ERMAC

Multiple campaigns
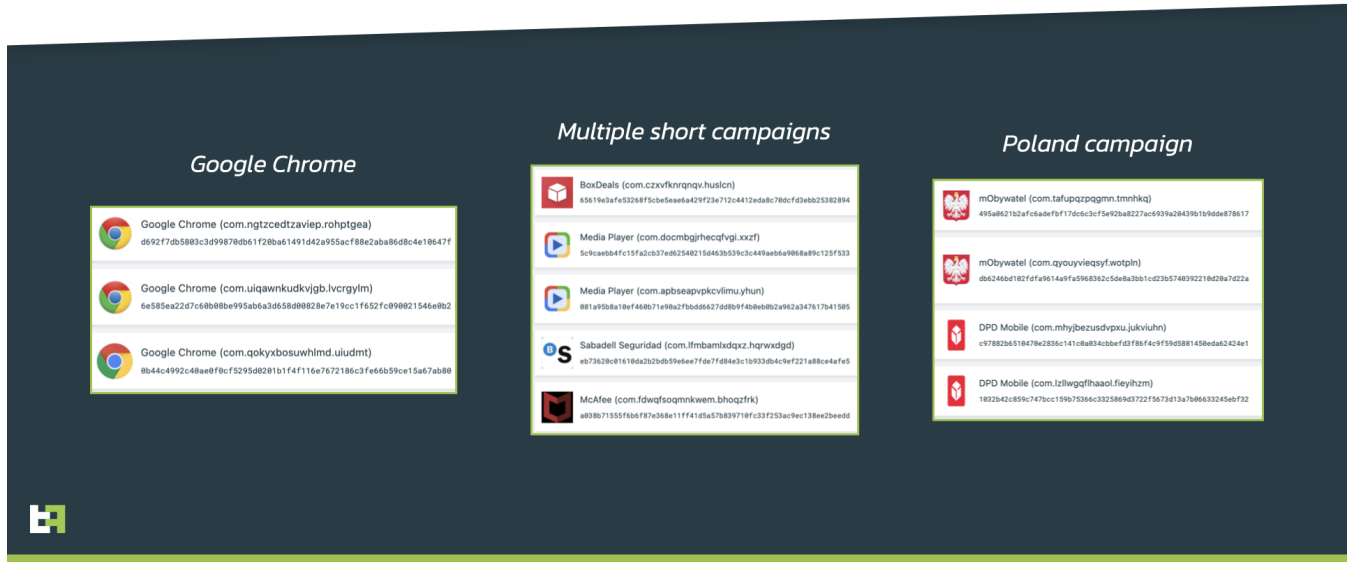
Conclusion

The story of ERMAC shows one more time how malware source code leaks can lead not only to slow evaporation of the malware family but also bring new threats/actors to the threat landscape. Being built on Cerberus basement, ERMAC introduces couple of new features. Although it lacks some powerful features like RAT, it remains a threat for mobile banking users and financial institutions all over the world.

How we help our customers

ThreatFabric makes it easier than it has ever been to run a secure mobile payments business. With the most advanced threat intelligence for mobile banking, financial institutions can build a risk-based mobile security strategy and use this unique knowledge to detect fraud-by-malware on the mobile devices of customers in real-time.

Together with our customers and partners, we are building an easy-to-access information system to tackle the ever growing threat of mobile malware targeting the financial sector. We especially like to thank the Cyber Defence Alliance (CDA) for collaborating and proactively sharing knowledge and information across the financial sector to fight cyber-threats.

ThreatFabric has partnerships with TIPs all over the world.

If you want to request a free trial of our MTI-feed, or want to test our own MTI portal for 30 days, feel free to contact us at: sales@threatfabric.com

If you want more information on how we detect mobile malware on mobile devices, you can directly contact us at: info@threatfabric.com

Appendix

ERMAC Samples

App name	Package name	SHA-256
mObywatel	com.tafupqzpqgmn.tmnhkq	495a0621b2afc6adefbf17dc6c3cf5e92ba8227ac6939a20439b1b9dde878617

App name	Package name	SHA-256
Google Chrome	com.hxfumpfgokky.bufvpk	2de0f59fd03512e5527c8b8b19595483564ae54cd4904457c4f5bf127949019d
DPD Mobile	com.mhyjbezusdvpxu.jukviuhn	1032b42c859c747bcc159b75366c3325869d3722f5673d13a7b06633245ebf32
BoxDeals	com.czxvfknrqnqv.huslcn	65619e3afe53268f5cbe5eae6a429f23e712c4412eda8c70dcfd3ebb25382894

C2 URL

URL

hxxp://185.215.113.42:3000/gate.php

hxxp://185.215.113.94:3000/gate.php

hxxp://185.215.113.81:3000/gate.php

hxxp://178.132.6.150:3000/gate.php

Targets

The list of the targeted applications.

PackageName	AppName
alior.bankingapp.android	Usługi Bankowe
app.wizink.es	WiZink, tu banco senZillo
ar.com.santander.rio.mbanking	Santander Argentina
at.spardat.bcrmobile	Touch 24 Banking BCR
at.volksbank.volksbankmobile	Volksbank hausbanking
au.com.amp.myportfolio.android	My AMP
au.com.bankwest.mobile	Bankwest
au.com.commbank.commbiz.prod	CommBiz
au.com.cua.mb	CUA Mobile Banking
au.com.hsbc.hsbcaustralia	HSBC Australia
au.com.ingdirect.android	ING Australia Banking
au.com.macquarie.authenticator	Macquarie Authenticator
au.com.macquarie.banking	Macquarie Mobile Banking
au.com.mebank.banking	ME Bank
au.com.nab.mobile	NAB Mobile Banking
au.com.newcastlepermanent	NPBS Mobile Banking
au.com.rams.RAMS	myRAMS
au.com.suncorp.SuncorpBank	Suncorp Bank
au.com.ubank.internetbanking	UBank Mobile Banking
ca.mobile.explorer	CA Mobile

PackageName	AppName
ca.tangerine.clients.banking.app	Tangerine Mobile Banking
cc.bitbank.bitbank	bitbank - Bitcoin & Ripple Wallet
cgd.pt.caixadirectaparticulares	Caixadirecta
ch.autoscout24.autoscout24	AutoScout24 Switzerland – Find your new car
cl.bancochile.mbanking	Mi Banco de Chile
clientapp.swiftcom.org	ePayments: wallet & bank card
co.edgesecure.app	Edge - Bitcoin, Ethereum, Monero, Ripple Wallet
co.zip	Zip - Shop Now, Pay Later
com.BOQSecure	BOQ Secure
com.CIMB.OctoPH	CIMB Bank PH
com.CredemMobile	Credem
com.EurobankEFG	Eurobank Mobile App
com.IngDirectAndroid	ING France
com.Plus500	Plus500: CFD Online Trading on Forex and Stocks
com.Version1	PNB ONE
com.aadhk.woinvoice	Invoice Maker: Estimate & Invoice App
com.abanca.bancaempresas	ABANCA Empresas
com.abanca.bm.pt	ABANCA - Portugal
com.abnamro.nl.mobile.payments	ABN AMRO Mobiel Bankieren
com.advantage.RaiffeisenBank	Raiffeisen Smart Mobile
com.aff.otpdirekt	OTP SmartBank
com.airbitz	Bitcoin Wallet - Airbitz
com.akbank.android.apps.akbank_direkt	Akbank
com.albarakaapp	Albaraka Mobile Banking
com.alrajhiretailapp	Al Rajhi Mobile
com.amazon.mShop.android.shopping	Amazon Shopping - Search, Find, Ship, and Save
com.amazon.sellermobile.android	Amazon Seller
com.ambank.ambankonline	AmOnline
com.americanexpress.android.acctsvcs.us	Amex
com.android.vending	Google Play
com.anz.android.gomoney	ANZ Australia
com.anz.transactive.global	ANZ Transactive - Global
com.aol.mobile.aolapp	AOL - News, Mail & Video
com.appfactory.tmb	Teachers Mutual Bank

PackageName	AppName
com.arkea.android.application.cmb	Crédit Mutuel de Bretagne
com.arkea.android.application.cmso2	CMSO ma banque : solde, virement & épargne
com.att.myWireless	myAT&T
com.azimo.sendmoney	Azimo Money Transfer
com.bancodebogotá.bancamovil	Banco de Bogotá
com.bancomer.mbanking	BBVA México (Bancomer Móvil)
com.bankaustria.android.olb	Bank Austria MobileBanking
com.bankinter.empresas	Bankinter Empresas
com.bankinter.launcher	Bankinter Móvil
com.bankofqueensland.boq	BOQ Mobile
com.barclaycardus	Barclays US
com.barclays.android.barclaysmobilebanking	Barclays
com.barclays.ke.mobile.android.ui	Barclays Kenya
com.bbva.bbvacontigo	BBVA Spain
com.bbva.mobile.pt	BBVA Portugal
com.bbva.netcash	BBVA Net Cash	ES & PT
com.bbva.nxt_peru	BBVA Perú
com.bcp.bank.bcp	Banca Móvil BCP
com.bendigobank.mobile	Bendigo Bank
com.binance.dev	Binance - Buy & Sell Bitcoin Securely
com.bitfinex.mobileapp	Bitfinex
com.bitmarket.trader	Aplikacja Bitmarket
com.bitpay.wallet	BitPay – Secure Bitcoin Wallet
com.bmo.mobile	BMO Mobile Banking
com.bmoharris.digital	BMO Digital Banking
com.bochk.com	BOCHK
com.botw.mobilebanking	Bank of the West Mobile
com.boursorama.android.clients	Boursorama Banque
com.btcturk	BtcTurk Bitcoin Borsası
com.caisse.epargne.android.tablette	Banque pour tablettes Android
com.caisseepargne.android.mobilebanking	Banque
com.cajasiete.android.cajasietereport	Report
com.cajasur.android	Cajasur
com.chase.sig.android	Chase Mobile

PackageName	AppName
com.cibc.android.mobi	CIBC Mobile Banking®
com.cic_prod.bad	CIC
com.cimbmalaysia	CIMB Clicks Malaysia
com.citibank.CitibankMY	Citibank MY
com.citizensbank.androidapp	Citizens Bank Mobile Banking
com.clairmail.fth	Fifth Third Mobile Banking
com.cm_prod.bad	Crédit Mutuel
com.coinbase.android	Coinbase – Buy & Sell Bitcoin. Crypto Wallet
com.comarch.mobile.banking.bgzbnpparibas.biznes	Mobile BiznesPl@net
com.comarch.security.mobilebanking	ING Business
com.commbank.netbank	CommBank
com.connectivityapps.hotmail	Connect for Hotmail & Outlook: Mail and Calendar
com.cooperativebank.bank	The Co-operative Bank
com.csam.icici.bank.imobile	iMobile by ICICI Bank
com.db.mm.norisbank	norisbank App
com.db.pbc.DBPay	DB Pay
com.db.pbc.miabanca	La Mia Banca
com.db.pbc.mibanco	Mi Banco db
com.db.pwcc.dbmobile	Deutsche Bank Mobile
com.denizbank.mobildeniz	MobilDeniz
com.desjardins.mobile	Desjardins mobile services
com.dhanlaxmi.dhansmart.mtc	Dhanlaxmi Bank Mobile Banking
com.discoverfinancial.mobile	Discover Mobile
com.ebay.mobile	eBay: Buy, sell, and save money on home essentials
com.empik.empikapp	Empik
com.empik.empikfoto	Empik Foto
com.engage.pbb.pbengage2my.release	PB engage MY
com.eofinance	EO.Finance: Buy and Sell Bitcoin. Crypto Wallet
com.exictos.mbanka.bic	Banco BIC, SA
com.exmo	EXMO Official - Trading crypto on the exchange
com.facebook.katana	Facebook
com.fi7026.godough	Commercial Bank Mobile Banking
com.fibabanka.Fibabanka.mobile	Fibabanka Mobile
com.fibabanka.mobile	Fibabanka Corporate Mobile

PackageName	AppName
com.finansbank.mobile.cepsube	QNB Finansbank Mobile Banking
com.finanteq.finance.bgz	BNP Paribas GOMobile
com.finanteq.finance.ca	CA24 Mobile
com.fortuneo.android	Fortuneo, mes comptes banque & bourse en ligne
com.fullsix.android.labanquepostale.accountaccess	La Banque Postale
com.fusion.ATMLocator	People's Choice Credit Union
com.fusion.banking	Bank Australia app
com.fusion.beyondbank	Beyond Bank Australia
com.garanti.cepsubesi	Garanti BBVA Mobile
com.getingroup.mobilebanking	Getin Mobile
com.gmowallet.mobilewallet	ビットコイン・暗号資産（仮想通貨）ウォレットアプリ GMOコイン\	チャート・購入・レバレッジ取引
com.google.android.gm	Gmail
com.greater.Greater	Greater Bank
com.grppl.android.shell.BOS	Bank of Scotland Mobile Banking: secure on the go
com.grppl.android.shell.CMBlloydsTSB73	Lloyds Bank Mobile Banking: by your side
com.grppl.android.shell.halifax	Halifax: the banking app that gives you extra
com.grupoavaloc1.bancamovil	Banco de Occidente Móvil
com.grupocajamar.wefferent	Grupo Cajamar
com.hsbc.hsbcnet	HSBCnet Mobile
com.htsu.hsbcpersonalbanking	HSBC Mobile Banking
com.ideomobile.hapoalim	בנק הפועלים - ניהול החשבון
com.imaginbank.app	imaginBank - Your mobile bank
com.imo.android.imoim	imo free video calls and chat
com.imo.android.imoimbeta	imo beta free calls and text
com.imo.android.imoimhd	imo HD-Free Video Calls and Chats
com.indra.itecban.mobile.novobanco	NBapp Spain
com.indra.itecban.triodosbank.mobile.banking	Triodos Bank. Banca Móvil
com.infonow.bofa	Bank of America Mobile Banking
com.infrasofttech.CentralBank	Cent Mobile
com.infrasofttech.MahaBank	Maha Mobile
com.ingbanktr.ingmobil	ING Mobil
com.instagram.android	Instagram
com.isis_papyrus.raiffeisen_pay_eyewdg	Raiffeisen ELBA

PackageName	AppName
com.itau.empresas	Itaú Empresas: Controle e Gestão do seu Negócio
com.kasikorn.retail.mbanking.wap	K PLUS
com.key.android	KeyBank Mobile
com.konylabs.HongLeongConnect	Hong Leong Connect Mobile Banking
com.konylabs.capitalone	Capital One® Mobile
com.konylabs.cbplpat	Citi Handlowy
com.kraken.trade	Pro: Advanced Bitcoin & Crypto Trading
com.krungsri.kma	KMA
com.kutxabank.android	Kutxabank
com.kuveytturk.mobil	Kuveyt Türk
com.latuabancaperandroid	Intesa Sanpaolo Mobile
com.leumi.leumiwallet	לאומי
com.lynxspa.bancopopolare	YouApp
com.magiclick.odeabank	Odeabank
com.mail.mobile.android.mail	mail.com mail
com.mcom.firstcitizens	First Citizens Mobile Banking
com.mercadolibre	Mercado Libre: compra fácil y rápido
com.mercadopago.wallet	Mercado Pago
com.mfoundry.mb.android.mb_136	People's United Bank Mobile
com.microsoft.office.outlook	Microsoft Outlook: Organize Your Email & Calendar
com.mobikwik_new	BHIM UPI, Money Transfer, Recharge & Bill Payment
com.mobileloft.alpha.droid	myAlpha Mobile
com.mobillium.papara	Papara
com.moneybookers.skrillpayments	Skrill - Fast, secure online payments
com.moneybookers.skrillpayments.neteller	NETELLER - fast, secure and global money transfers
com.msf.kbank.mobile	Kotak - 811 & Mobile Banking
com.mtel.androidbea	BEA 東亞銀行
com.mycelium.wallet	Mycelium Bitcoin Wallet
com.navyfederal.android	Navy Federal Credit Union
com.nearform.ptsb	permanent tsb
com.netflix.mediaclient	Netflix
com.ocito.cdn.activity.creditdunord	Crédit du Nord pour Mobile
com.oxigen.oxigenwallet	Bill Payment & Recharge,Wallet
com.paribu.app	Paribu

PackageName	AppName
com.paxful.wallet	Paxful Bitcoin Wallet
com.payeer	PAYEER
com.payoneer.android	Payoneer – Global Payments Platform for Businesses
com.paypal.android.p2pmobile	PayPal Mobile Cash: Send and Request Money Fast
com.pcfinancial.mobile	Simplii Financial
com.pnc.ecommerce.mobile	PNC Mobile
com.polehin.android	Bitcoin Wallet - Buy BTC
com.pozitron.iscep	İşCep - Mobile Banking
com.pttfinans	PTTBank
com.quoine.quoinex.light	Liquid by Quoineライト版（リキッドバイコイン） - ビットコインなどの仮想通貨取引所
com.rbc.mobile.android	RBC Mobile
com.rbs.mobile.android.natwest	NatWest Mobile Banking
com.rbs.mobile.android.rbs	Royal Bank of Scotland Mobile Banking
com.rsi	ruralvía
com.samba.mb	SambaMobile
com.santander.bpi	Santander Private Banking
com.sbi.SBAnywhereCorporate	SBI Anywhere Corporate
com.sbi.SBIFreedomPlus	Yono Lite SBI - Mobile Banking
com.scb.phone	SCB EASY
com.scotiabank.banking	Scotiabank Mobile Banking
com.snapchat.android	Snapchat
com.snapwork.IDBI	IDBI Bank GO Mobile+
com.snapwork.hdfc	HDFC Bank MobileBanking
com.squareup.cash	Cash App
com.starfinanz.smob.android.sfinanzstatus	Sparkasse Ihre mobile Filiale
com.suntrust.mobilebanking	SunTrust Mobile App
com.targo_prod.bad	TARGOBANK Mobile Banking
com.tarjetanaranja.emisor.serviciosClientes.appTitulares	Naranja
com.td	TD Canada
com.tdbank	TD Bank (US)
com.teb	CEPTETEB
com.tecnocom.cajalaboral	Banca Móvil Laboral Kutxa
com.tencent.mm	WeChat

PackageName	AppName
com.tideplatform.banking	Tide - Smart Mobile Banking
com.tmobtech.halkbank	Halkbank Mobil
com.todo1.davivienda.mobileapp	Davivienda Móvil
com.todo1.mobile	Bancolombia App Personas
com.transferwise.android	TransferWise Money Transfer
com.twitter.android	Twitter
com.twitter.android.lite	Twitter Lite
com.ubercab	Uber - Request a ride
com.ubercab.eats	Uber Eats: Food Delivery
com.unicredit	Mobile Banking UniCredit
com.unionbank.ecommerce.mobile.android	Union Bank Mobile Banking
com.unocoin.unocoinwallet	Unocoin Wallet
com.usaa.mobile.android.usaa	USAA Mobile
com.usbank.mobilebanking	U.S. Bank - Inspired by customers
com.uy.itau.appitauuypf	Itaú Uruguay
com.vakifbank.mobile	VakıfBank Mobil Bankacılık
com.vancity.mobileapp	Vancity
com.viber.voip	Viber Messenger - Messages, Group Chats & Calls
com.westernunion.moneytransferr3app.es	Western Union ES - Send Money Transfers Quickly
com.wf.wellsfargomobile	Wells Fargo Mobile
com.whatsapp	WhatsApp Messenger
com.whatsapp.w4b	WhatsApp Business
com.woodforest	Woodforest Mobile Banking
com.wrx.wazirx	WazirX - Buy Sell Bitcoin & Other Cryptocurrencies
com.yahoo.mobile.client.android.mail	Yahoo Mail – Organized Email
com.ykb.android	Yapı Kredi Mobile
com.zellepay.zelle	Zelle
com.ziraat.ziraatmobil	Ziraat Mobile
com.zoluxiones.officebanking	Banco Santander Perú S.A.
cz.csob.smartbanking	ČSOB Smartbanking
de.adesso_mobile.secureapp.netbank	SecureApp netbank
de.comdirect.android	comdirect mobile App
de.commerzbanking.mobil	Commerzbank Banking - The app at your side
de.consorsbank	Consorsbank

PackageName	AppName
de.dkb.portalapp	DKB-Banking
de.fiducia.smartphone.android.banking.vr	VR Banking Classic
de.ingdiba.bankingapp	ING Banking to go
de.mobile.android.app	mobile.de – Germany's largest car market
de.number26.android	N26 — The Mobile Bank
de.postbank.finanzassistent	Postbank Finanzassistent
de.santander.presentation	Santander Banking
de.traktorpool	tractorpool
enterprise.com.anz.shield	ANZ Shield
es.bancosantander.apps	Santander
es.bancosantander.empresas	Santander Empresas
es.caixagalicia.activamovil	ABANCA- Banca Móvil
es.caixageral.caixageralapp	Banco Caixa Geral España
es.ceca.cajalnet	Cajalnet
es.cm.android	Bankia
es.evobanco.bancamovil	EVO Banco móvil
es.ibercaja.ibercajaapp	Ibercaja
es.lacaixa.mobile.android.newwapicon	CaixaBank
es.liberbank.cajasturapp	Banca Digital Liberbank
es.openbank.mobile	Openbank – banca móvil
es.pibank.customers	Pibank
es.univia.unicajamovil	UnicajaMovil
eu.atlantico.bancoatlanticoapp	MY ATLANTICO
eu.eleader.mobilebanking.invest	plusbank24
eu.eleader.mobilebanking.pekao	Pekao24Makler
eu.eleader.mobilebanking.pekao.firm	PekaoBiznes24
eu.inmite.prj.kb.mobilbank	Mobilni Banka
eu.netinfo.colpatria.system	Scotiabank Colpatria
eu.unicreditgroup.hvbapptan	HVB Mobile Banking
finansbank.enpara	Enpara.com Cep Şubesi
fr.banquepopulaire.cyberplus	Banque Populaire
fr.creditagricole.androidapp	Ma Banque
fr.laposte.lapostemobile	La Poste - Services Postaux
fr.lcl.android.customerarea	Mes Comptes - LCL

PackageName	AppName
fr.oney.mobile.mescomptes	Oney France
gr.winbank.mobilenext	Winbank Mobile
gt.com.bi.bienlinea	Bi en Línea
hr.asseco.android.mtoken.bos	iBOSStoken
hu.bb.mobilapp	Budapest Bank Mobil App
hu.cardinal.cib.mobilapp	CIB Business Online
hu.cardinal.erste.mobilapp	Erste Business MobilBank
hu.mkb.mobilapp	MKB Mobilalkalmazás
id.co.bitcoin	Indodax
io.cex.app.prod	CEX.IO Cryptocurrency Exchange
io.ethos.universalwallet	Ethos Universal Wallet
it.bnl.apps.banking	BNL
it.carige	Carige Mobile
it.copergmps.rt.pf.android.sp.bmps	Banca MPS
it.ingdirect.app	ING Italia
it.nogood.container	UBI Banca
it.popso.SCRIGNOapp	SCRIGNOapp
jp.co.netbk	住信SBIネット銀行
jp.co.rakuten_bank.rakutenbank	楽天銀行 -個人のお客様向けアプリ
jp.coincheck.android	Bitcoin Wallet Coincheck
ktbcs.netbank	Krungthai NEXT
ma.gbp.pocketbank	Pocket Bank
mbanking.NBG	NBG Mobile Banking
me.cryptopay.android	C.PAY
mobi.societegenerale.mobile.lappli	L'Appli Société Générale
mx.bancosantander.supermovil	Santander móvil
my.com.hsbc.hsbcmalaysia	HSBC Malaysia
my.com.maybank2u.m2umobile	Maybank2u MY
net.bnpparibas.mescomptes	Mes Comptes BNP Paribas
net.garagecoders.e_llavescotiainfo	ScotiaMóvil
net.inverline.bancosabadell.officelocator.android	Banco Sabadell App. Your mobile bank
nz.co.asb.asbmobile	ASB Mobile Banking
org.banking.bom.businessconnect	Bank of Melbourne Business App
org.banking.bsa.businessconnect	BankSA Business App

PackageName	AppName
org.banking.stg.businessconnect	St.George Business App
org.banksa.bank	BankSA Mobile Banking
org.bom.bank	Bank of Melbourne Mobile Banking
org.microemu.android.model.common.VTUserApplicationLINKMB	Link Celular
org.stgeorge.bank	St.George Mobile Banking
org.telegram.messenger	Telegram
org.toshi	Coinbase Wallet — Crypto Wallet & DApp Browser
org.westpac.bank	Westpac Mobile Banking
org.westpac.col	Westpac Corporate Mobile
pe.com.interbank.mobilebanking	Interbank APP
pegasus.project.ebh.mobile.android.bundle.mobilebank	George Magyarország
piuk.blockchain.android	Blockchain Wallet. Bitcoin, Bitcoin Cash, Ethereum
pl.aliorbank.aib	Alior Mobile
pl.allegro	Allegro - convenient and secure online shopping
pl.bph	BusinessPro Lite
pl.bps.bankowoscmobilna	BPS Mobilnie
pl.bzwbk.bzwbk24	Santander mobile
pl.bzwbk.ibiznes24	iBiznes24 mobile
pl.ceneo	Ceneo - zakupy i promocje
pl.com.rossmann.centauros	Rossmann PL
pl.envelobank.aplikacja	EnveloBank
pl.eurobank2	eurobank mobile 2.0
pl.fakturownia	Fakturownia.pl
pl.ideabank.mobilebanking	Idea Bank PL
pl.ifirma.ifirmafaktury	IFIRMA - Darmowy Program do Faktur
pl.ing.mojeing	Moje ING mobile
pl.mbank	mBank PL
pl.millennium.corpApp	Bank Millennium for Companies
pl.nestbank.nestbank	Nest Bank nowy
pl.noblebank.mobile	Noble Mobile
pl.orange.mojeorange	Mój Orange
pl.pkobp.iko	IKO
pl.pkobp.ipkobiznes	iPKO biznes
pl.raiffeisen.nfc	Mobilny Portfel

PackageName	AppName
posteitaliane.posteapp.apppostepay	Postepay
pt.bancobpi.mobile.fiabilizacao	BPI APP
pt.novobanco.nbapp	NB smart app
pt.santandertotta.mobileparticulares	Santander Particulares
ro.btrl.mobile	Banca Transilvania
softax.pekao.powerpay	PeoPay
tr.com.hsbc.hsbcturkey	HSBC Turkey
tr.com.sekerbilisim.mbank	ŞEKER MOBİL ŞUBE
tsb.mobilebanking	TSB Bank Mobile Banking
uk.co.hsbc.hsbcukmobilebanking	HSBC UK Mobile Banking
uk.co.mbna.cardservices.android	MBNA - Card Services App
uk.co.metrobankonline.mobile.android.production	Metro Bank
uk.co.santander.santanderUK	Santander Mobile Banking
uk.co.tescomobile.android	Tesco Mobile
uk.co.tsb.newmobilebank	TSB Mobile Banking
uy.brou	App Móvil del Banco República
uy.com.brou.token	BROU Llave Digital
wit.android.bcpBankingApp.millennium	Millenniumbcp
wit.android.bcpBankingApp.millenniumPL	Bank Millennium
www.ingdirect.nativeframe	ING España. Banca Móvil