



Under the SEA: A Look at the Syrian Electronic Army's Mobile Tooling

BlackHat Europe 2018
London, England

Who are we?



Michael Flossman
Head of Threat Intelligence
[@Lookout](#)



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Security Intelligence Analyst
[@Lookout](#)

Discover, track, disrupt, and understand
the context around targeted
Surveillanceware

Pegasus, ViperRAT, DarkCaracal,
StealthMango, and many many more

Agenda

- Who is the SEA?
- SilverHawk
- Attack Vectors
- Personas & Attribution



Upgrading Traditional Warfare

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Upgrading Traditional Warfare



Enemies of the Internet 2014

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Hacked

The Pro

we are sorry to destroy your sites , but your government's policies and the interfere in our Interior affairs forced us to hack your official sites so you will be able to listen to our voices live from Syria , we love our country and we love our President Bashar al Assad and we will not allow anyone to interfere in our Internal Affairs

PRO@Hotmail.NL

 Skype 
@Skype

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Don't use Microsoft emails(hotmail,outlook),They are monitoring your accounts and selling the data to the governments.More details soon
#SEA

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8,209 RETWEETS	2,026 FAVORITES
	

12:34 AM - 2 Jan 14

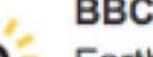
 Microsoft News 
@MSFTnews

Syrian Electronic Army Was Here via @Official_SEA16 #SEA
pic.twitter.com/MDxQXK6CIJ

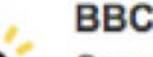
[Reply](#) [Retweet](#) [Favorite](#) [Pocket](#) [More](#)

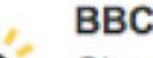
14 RETWEETS	1 FAVORITE
	

2:31 PM - 11 Jan 14

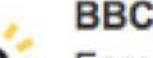
 BBC Weather 
@bbcweather

Earthquake warning for Qatar: Hamad Bin Khalifah about to exit vehicle
[Expand](#)

 BBC Weather 
Saudi weather station down due to head on-collision with camel
[Expand](#)

 BBC Weather 
Chaotic weather forecast for Lebanon as the government decides to distance itself from the Milky Way
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 BBC Weather 
Tsunami alert for Haifa: Residents are advised to return to Poland.
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 BBC Weather 
Forecast for Tel Aviv on Saturday - 5000 degrees Kelvin with northern fog and eastern high pressure front
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 BBC Weather 
Long Live #Syria Al-Assad #SEA
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@CNN

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Syrian Electronic Army Was Here... Stop lying... All your reports are fake! via @Official_SEA16 #SEA

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92 RETWEETS	25 FAVORITES
	

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Tweets [All](#) / No replies

 FC Barcelona 
@FCBarcelona · 2m
Special Hi to @RealMadrid! via @Official_SEA16 #SEA
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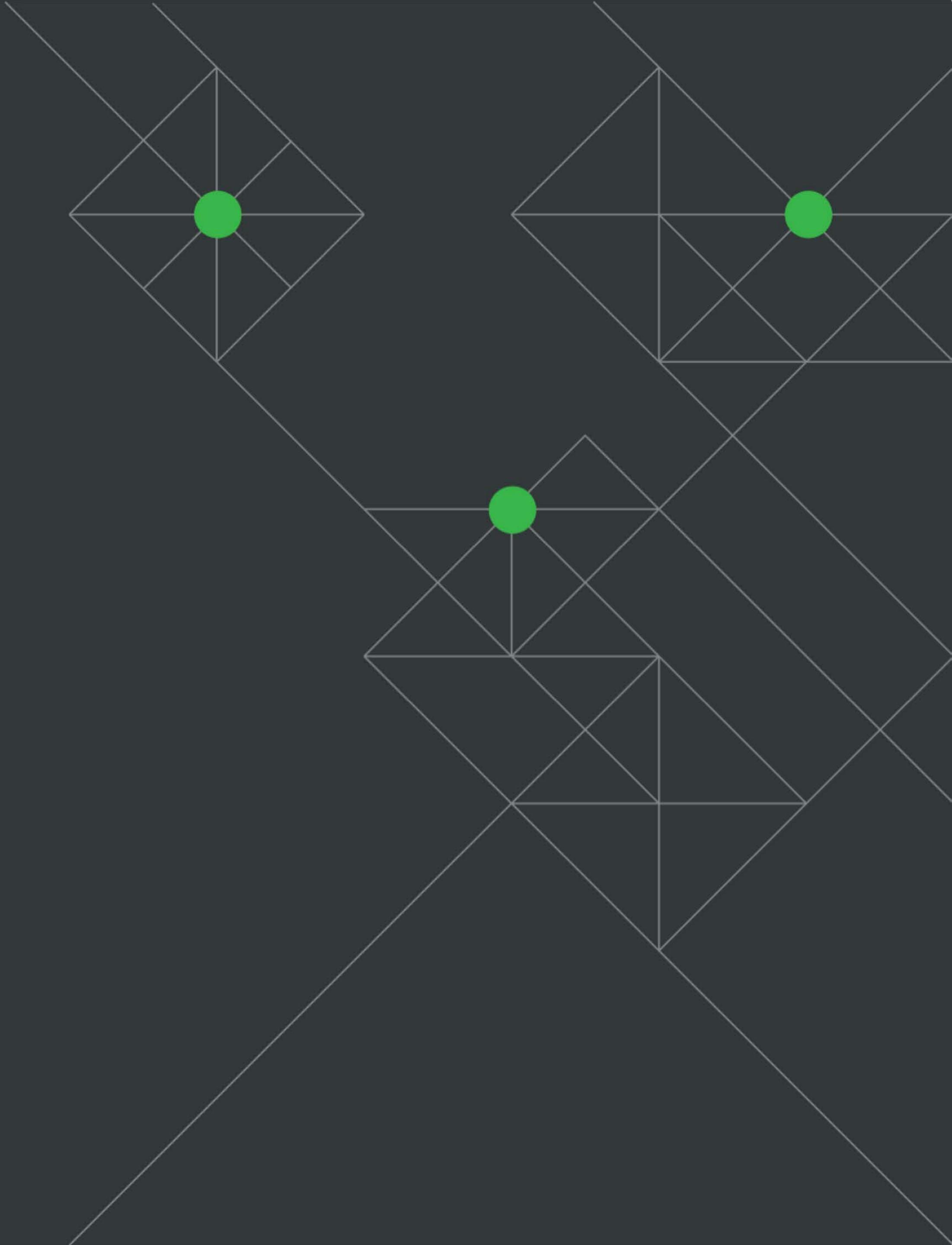
 Retweeted by FC Barcelona
FC Barcelona 
@FCBarcelona_cat · 7m
Dear FC Barcelona management, Don't let the Qatari money funds you, it's full of blood and kill via @Official_SEA16 #SEA #FCB
[Expand](#)

 Retweeted by FC Barcelona
FC Barcelona 
@FCBarcelona_es · 7m
Dear FC Barcelona management, Don't let the Qatari money funds you, it's full of blood and kill via @Official_SEA16 #SEA #FCB
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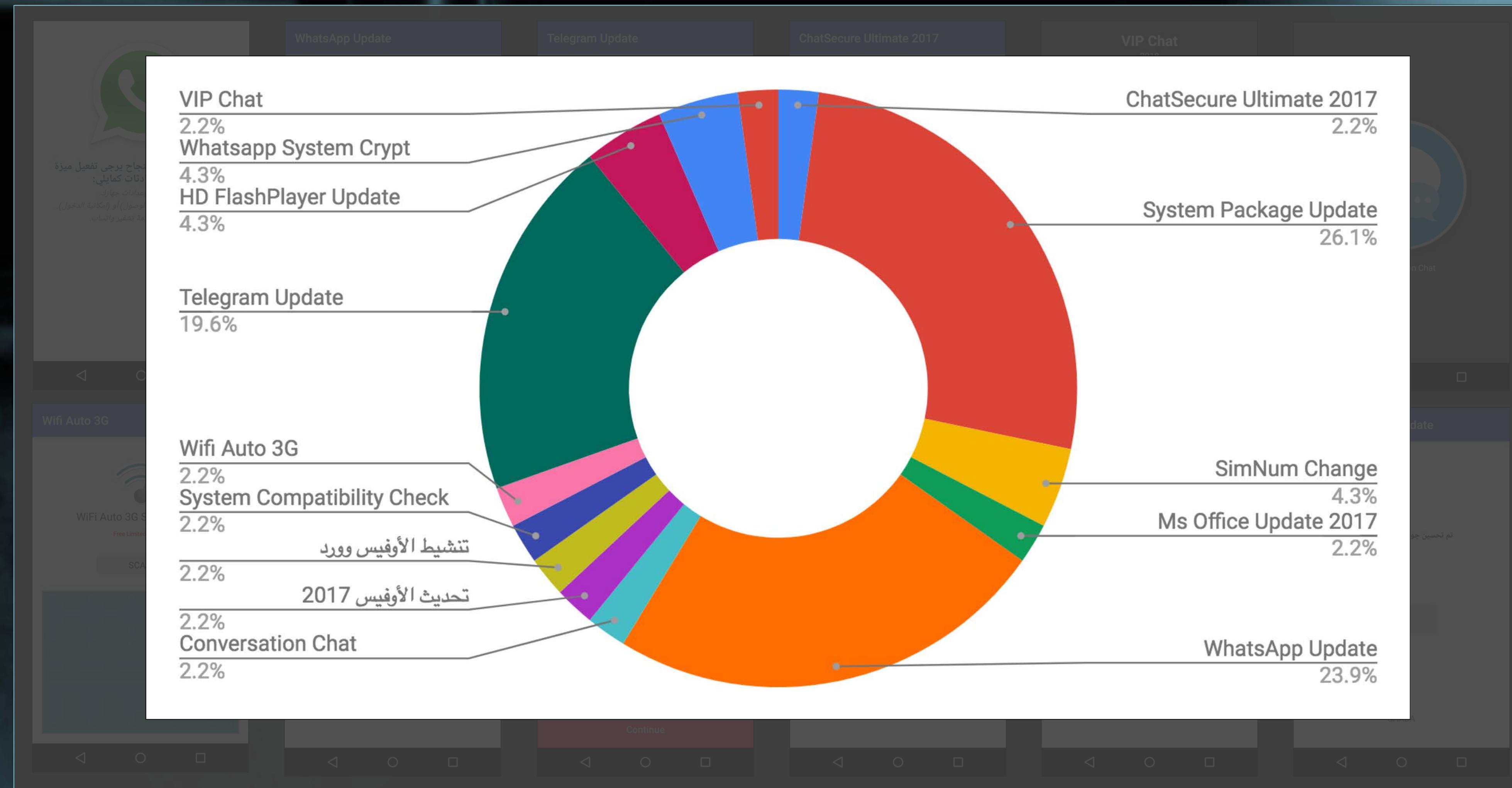
 FC Barcelona 
@FCBarcelona · 7m
Dear FC Barcelona management, Don't let the Qatari money funds you, it's full of blood and kill via @Official_SEA16 #SEA #FCB
[Expand](#)



SilverHawk

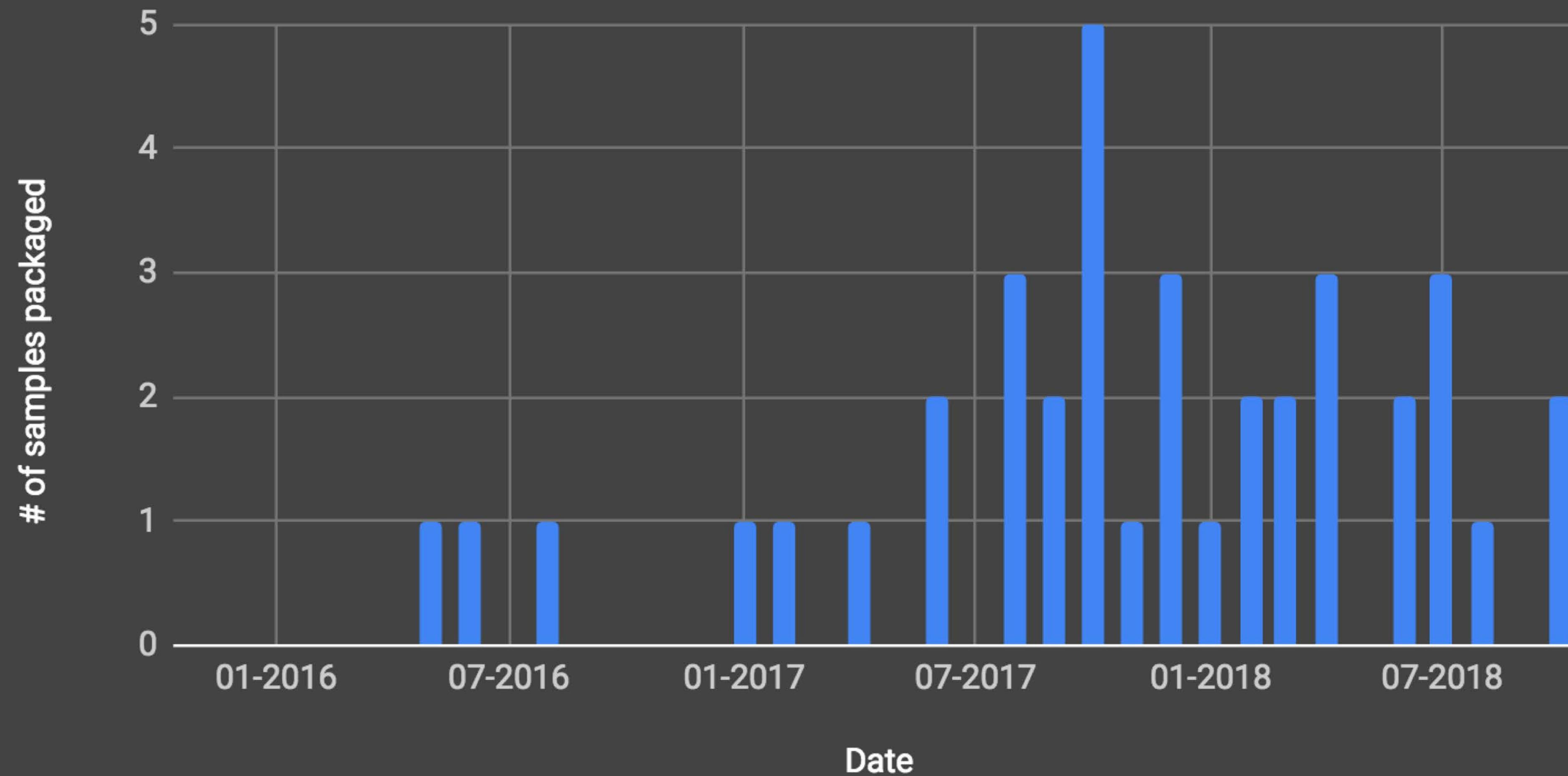


SilverHawk



Dates Mobile Tooling Packaged

SilverHawk



SilverHawk

Where on the phone did the malware touch you?

App Capabilities

- Record Audio
 - Stream environment audio over raw socket when instructed
- Take photos with device camera
- Survival counter - failed server connections and it stops
- Retrieve files from external storage
 - Top directory
 - Downloads , Pictures, DCIM directories
 - WhatsApp, Telegram, Viber, ShareIt content
 - Files sent over Bluetooth*
- File utility to copy, move, rename, and delete files
- Download attacker specified files
- Enumerate installed apps incl. date & time installed
- Attempt to execute attacker specified commands or binary as root
- Retrieve contacts and related data:
 - Call logs
 - Contacts
 - Text Messages
- Location, direction, and acceleration of the device
- Remotely updateable C2 IP and port
- Hide Icon
- Device information
 - Retrieve battery levels, WiFi and GPS status, storage and cellular carrier info

SilverHawk

Custom Communication Protocol

```
<HmzaPacket>
<Command></Command>
<XMLData></XMLData>
<MSG></MSG>
<Success></Success>
</HmzaPacket></HAMZA_DELIMITER_STOP>
```

```
<HmzaPacket>
<XMLData>&lt;SysInfo&gt;
&lt;APK&gt;Telegram_21_2_2017_SoundBuffer&lt;/APK&gt;
&lt;Android&gt;4.3&lt;/Android&gt;
&lt;WIFI&gt;3G&lt;/WIFI&gt;
&lt;DBName&gt;&lt;/DBName&gt;
&lt;DateOn&gt;Installed @ : [REDACTED] GMT&lt;/DateOn&gt;
&lt;DeviceName&gt;Unknown AOSP on ARM Emulator&lt;/DeviceName&gt;
&lt;IMEI&gt;[REDACTED]&lt;/IMEI&gt;
&lt;Loc&gt;us&lt;/Loc&gt;
&lt;Oper&gt;[REDACTED]&lt;/Oper&gt;
&lt;SimSer&gt;[REDACTED]&lt;/SimSer&gt;
&lt;Root&gt;Rooted &lt;/Root&gt;
&lt;Sim&gt;T-Mobile&lt;/Sim&gt;
&lt;Rate&gt;0&lt;/Rate&gt;
&lt;Chanel&gt;0&lt;/Chanel&gt;
&lt;/SysInfo&gt;</XMLData>
<MSG></MSG>
<Success>true</Success>
<Command>17</Command>
</HmzaPacket></HAMZA_DELIMITER_STOP><HmzaPacket>
<XMLData></XMLData>
<MSG>com.systemappsy.update.telegram</MSG>
<Success>true</Success>
<Command>30</Command>
</HmzaPacket></HAMZA_DELIMITER_STOP><HmzaPacket>
<XMLData></XMLData>
<MSG>com.systemappsy.update.telegram</MSG>
<Success>true</Success>
<Command>30</Command>
</HmzaPacket></HAMZA_DELIMITER_STOP><HmzaPacket>
<XMLData></XMLData>
<MSG>com.systemappsy.update.telegram</MSG>
<Success>true</Success>
<Command>30</Command>
</HmzaPacket></HAMZA_DELIMITER_STOP>
```

```

00000026 invoke-virtual   L1:        .L1:    opnUpgrade(SQLiteDatabase, ConnectionSource, 1, 1/v, p0, p1, v3, p2, p3
:2E
0000002E if-eqz           v0, :38
:32
00000032 invoke-interface ConnectionSource->clearSpecialConnection(DatabaseConnection)V, v3, v1
:38
00000038 return-void
:3A
0000003A move-exception   v0
0000003C new-instance     v1, IllegalStateException
00000040 const-string      v2, "Could not save special connection"
00000044 invoke-direct    IllegalStateException-><init>(String, Throwable)V, v1, v2, v0
0000004A throw             v1
:4C
0000004C m
0000004E i
:52
00000052 i
:58
00000058 t
:5A
0000005A m
0000005C m
0000005E g
.
.end method
.method pub
.end method
.method pub
.
00000000 n
00000004 i
0000000A i
00000010 m
00000012 i
00000018 m
0000001A i
00000020 m
00000022 c
00000026 i
0000002C m
0000002E i
00000034 m
00000036 i
0000003C m
0000003E i
00000044 m
00000046 i
0000004C m
0000004E r
.and method
        .L1:    opnUpgrade(SQLiteDatabase, ConnectionSource, 1, 1/v, p0, p1, v3, p2, p3
        v0, :38
        ConnectionSource->clearSpecialConnection(DatabaseConnection)V, v3, v1
        "Could not save special connection"
        IllegalStateException-><init>(String, Throwable)V, v1, v2, v0
        v1

```

SilverHawk

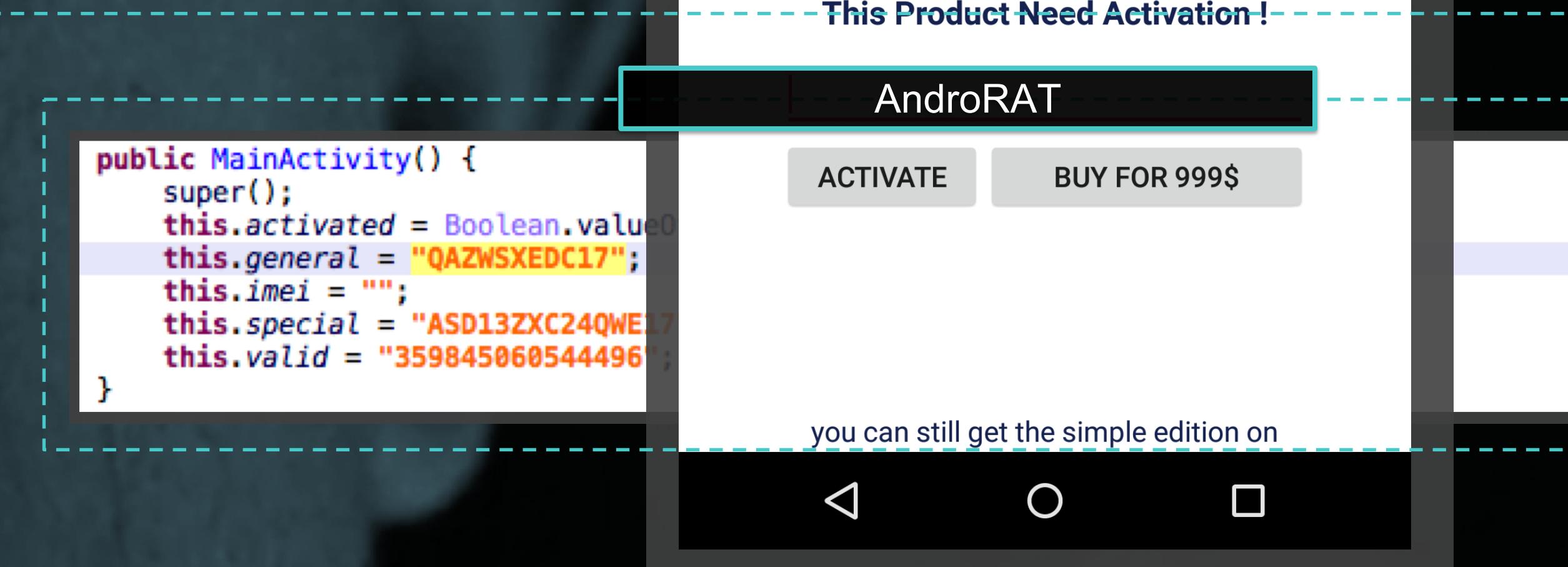
Capabilities and Evolution

COMMAND	TYPE	DESCRIPTION
16	None	Sends an empty packet to the server and calls TryConnect() which updates all information on the server
17	XML	Send all basic device information to the server including SIM Card details, Network operator, IMEI, phone and device details, Android Build Version, date installed, connectivity, Admin and root privileges, Wifi details.
18	XML	If the Success value received from the server with this command is false or doesn't exist: Gets a list of mount points and then uploads a HmzaFile object which contains the following folders as its child, only if they exist on the system: <ul style="list-style-type: none"> • Phone • SD Card • Downloads • Pictures • DCIM It also attempts to add the following folders on external storage, only if they exist: <ul style="list-style-type: none"> • Whatsapp • GBWhatsapp • Telegram • Viber • Bluetooth • ShareIt If the value of Success is true : the XMLData from the server contains the name of a specific file/directory whose details need to be uploaded to the command and control infrastructure. If the specified name is a directory, the file list of the directory is recursively built and sent as a HmzaFile object.
19	Both	Tells the client to upload a specified file to the remote server
20	None	Tells the client to receive a specified file from the remote server and store it at a specified location on the infected device.
21	XML	Delete a specified file from the device

COMMAND	TYPE	DESCRIPTION
22	Both	Copy a specified file to another specified location on the device
23	Both	Move a specified file to another specified location on the device
24	Both	Rename a specified file to a specified name on the device
25	XML	Run a given file on the device
28	XML	Make a new specified directory on the device
29	XML	Root shell command executed and communicated back to server only if su binary exists on device.
30	MSG	Sends back the currently running application on the device
31	XML	Sends the list of all Contacts to the remote server
32	XML	Sends the contents of all SMSs to the remote server
33	XML	Sends the call logs to the server
34	None	Start recording audio and stream it back to the remote server
35	None	Stop recording audio and send an empty packet for confirmation
36	XML	Take a picture and send the data as Base64-encoded XML Data
37	XML	Sends location, direction and acceleration of the device to the server
39	MSG	Receive and update server IP and Port
40	Both	Send the IP and Port that is stored in the Settings to the remote server
41	XML	Sends a list of Installed apps to the server with icons
101	XML	Error reporting for commands 18-20

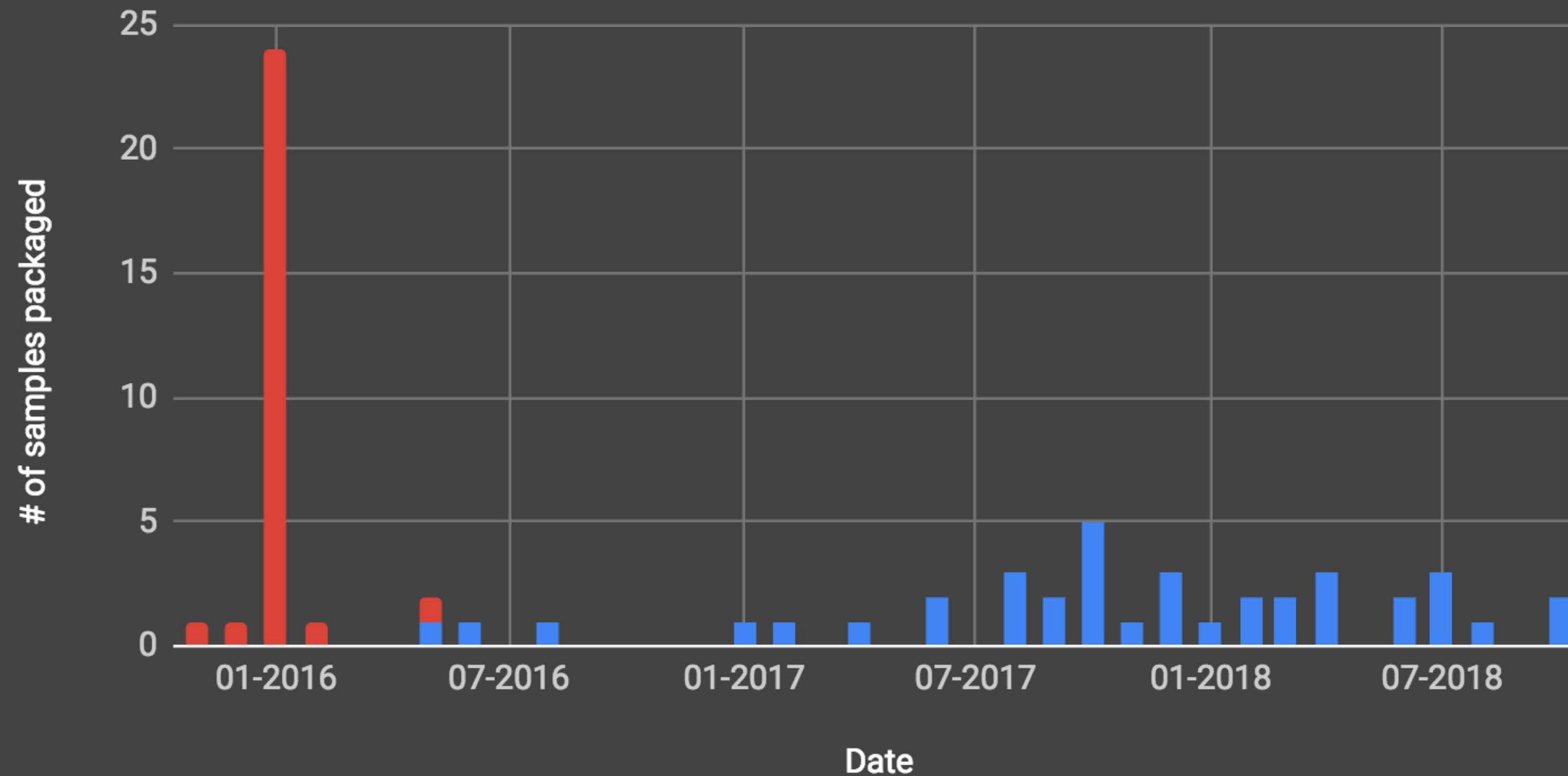
SilverHawk

The AndroRAT Connection

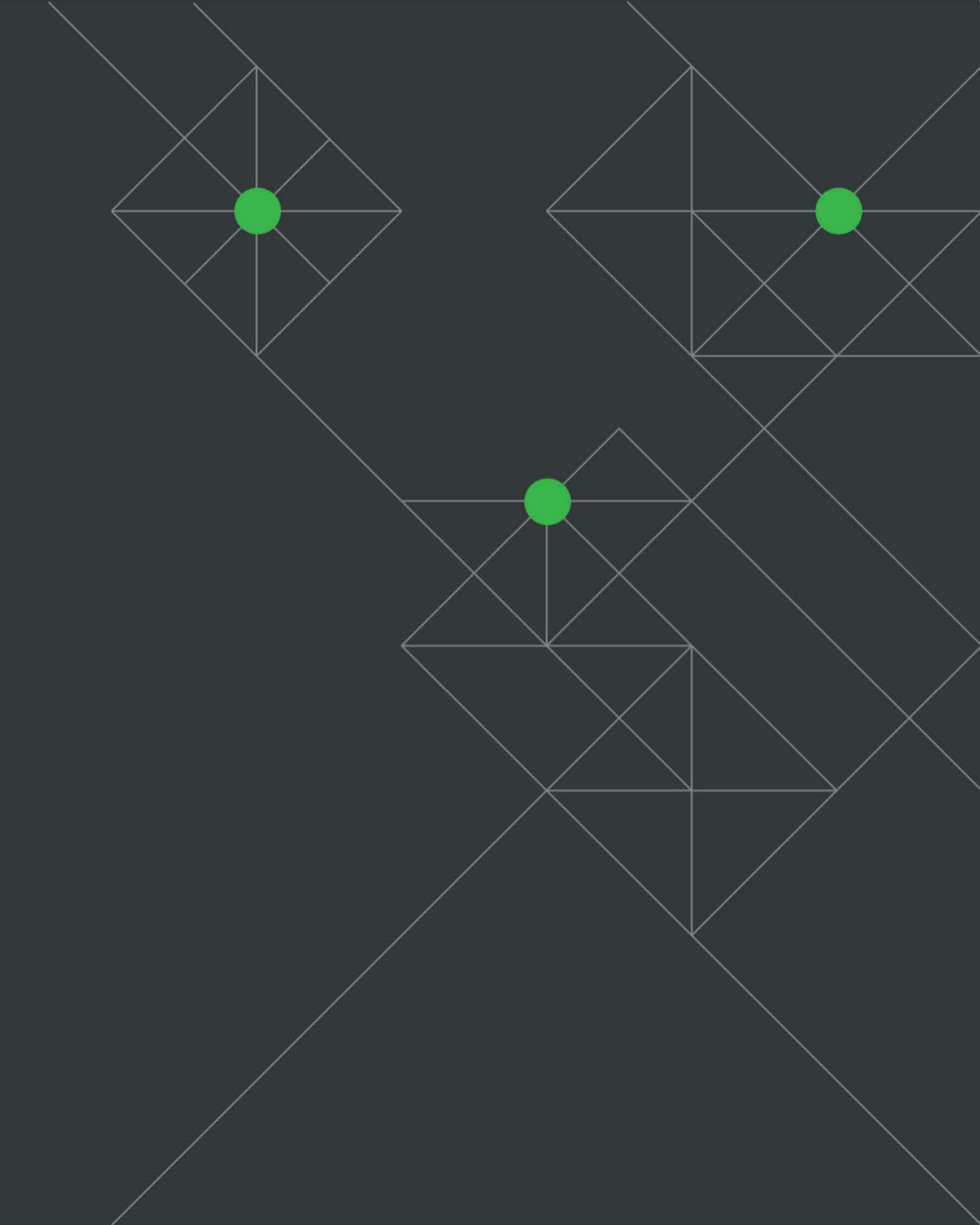


Dates Mobile Tooling Packaged

AndroRAT SilverHawk



Attack Vectors



CS20

ChatSecure Lite

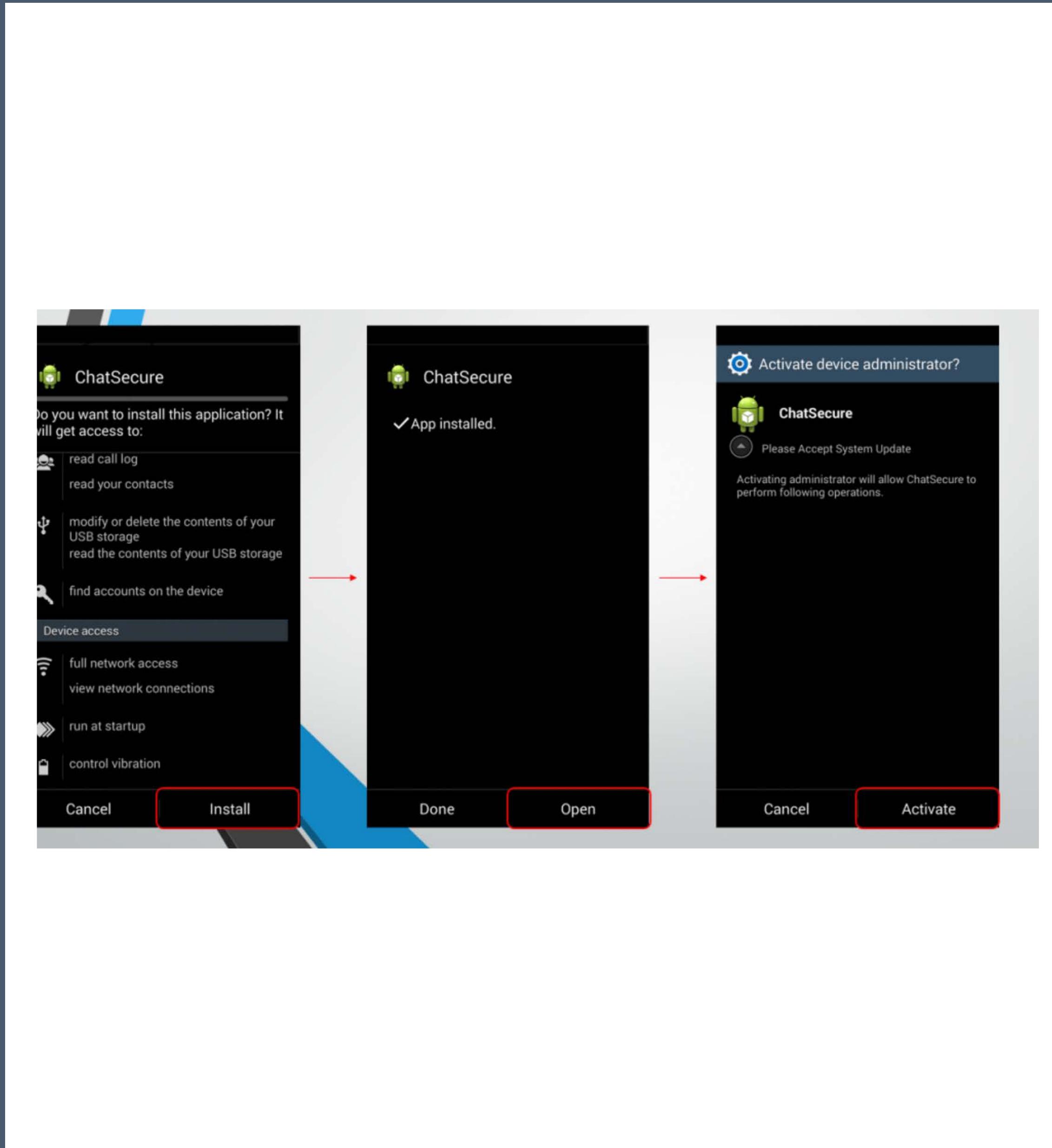
حول المنتج تحميل البرنامج سئلة وأجوبة

Chat Secure

ي مفتوح المصدر لحماية كافة المراسلات على برامج الدردشة الخاصة بأجهزة الأندرويد

LINE





Index of [REDACTED]

<u>[ICO]</u>	<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
[PARENTDIR] Parent Directory				
[]	تثبيت نت مج	2017-09-25 22:52	1.4M	
[DIR]	04/	2017-04-09 20:25	-	
[DIR]	05/	2017-05-31 09:16	-	
[DIR]	06/	2017-06-01 11:27	-	
[DIR]	07/	2017-07-02 14:34	-	
[DIR]	08/	2017-08-01 16:31	-	
[DIR]	09/	2017-09-02 18:49	-	
[DIR]	10/	2017-10-01 10:50	-	
[]	ChatSecureLite.apk	2017-09-25 22:52	1.4M	
[]	ChatSecurePro.apk	2017-10-16 15:38	1.5M	
[]	Wifi Auto 3G.apk	2017-08-19 17:12	1.5M	
[]	WordActivation.apk	2017-10-16 15:27	1.4M	
[]	kaser-pro.aman.belg.apk	2016-12-29 22:45	1.5M	
[]	skype.exe	2015-11-02 00:47	45M	
[]	telegramupdate_2017.apk	2017-10-16 15:41	1.5M	
[]	whatsapp_2017.apk	2017-10-26 11:54	1.5M	
[]	whatsappupdate_2017.apk	2017-10-16 15:45	1.5M	
[]	windows5000.key	2017-09-13 20:46	203K	

[ICO]	Name	Last modified	Size	Description
[PARENTDIR]	Parent Directory	-		
[]	Facebook.apk	2016-01-29 19:56	102K	
[]	Firefox1.apk	2016-01-29 16:25	35M	
[]	Line.apk	2016-01-29 19:58	102K	
[]	Messenger.apk	2016-01-29 19:58	102K	
[]	Messenger1.apk	2016-01-29 16:29	26M	
[TXT]	New Text Document.txt	2016-01-29 23:11	41	
[]	Skype.apk	2016-01-29 19:59	102K	
[]	SnapChat.apk	2016-01-29 19:59	102K	
[]	Telegram.apk	2016-01-29 20:00	102K	
[]	Twitter.apk	2016-01-29 20:01	102K	
[]	UCMobile1.apk	2016-01-26 15:09	17M	
[]	Viber.apk	2016-01-29 20:01	102K	
[]	WhatsApp1.apk	2016-01-26 12:43	26M	
[]	WhatsAppPlus.apk	2016-01-29 20:12	102K	
[]	baidu1.apk	2016-01-27 21:19	6.5M	
[]	chrome1.apk	2016-01-26 16:55	39M	
[]	dolphin1.apk	2016-01-27 21:21	7.8M	
[]	facebook1.apk	2016-01-26 12:43	33M	
[]	imo.apk	2016-01-29 19:57	102K	
[]	imo1.apk	2016-01-27 14:09	5.0M	
[]	line1.apk	2016-01-27 14:03	33M	
[]	opera1.apk	2016-01-27 21:24	17M	
[]	skype1.apk	2016-01-27 14:04	36M	
[]	snapchat1.apk	2016-01-26 12:43	33M	
[]	telegram1.apk	2016-01-26 12:43	12M	

Name	Last modified	Size	Description
[DIR] Parent Directory	-		
Baidu.apk	2016-01-29 20:13	102K	
Chrome.apk	2016-01-29 20:14	102K	
Dolphin.apk	2016-01-29 20:14	102K	
Firefox.apk	2016-01-29 20:15	102K	
Opera.apk	2016-01-29 20:16	102K	
UCMobile.apk	2016-01-29 20:17	102K	
Youtube.apk	2016-01-29 20:17	102K	



**الجمعية الوطنية
الديمقراطية السورية
Syrian National
Democratic Alliance**

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Posts

**الجمعية الوطنية الديمقراطية السورية
Democratic Alliance** May 25, 2017 ·

أول وثيقة يعلن عنها العميد مناف طلاس
النظام الداخلي للجيش السوري الوطني ورئاسة هيئة الأركان العليا
#وثيقة رقم 1
<http://download1480.mediafire.com/.....%D9%88%D8%AB%D9%8A%D9%8>

#First document to be announced by Dean benefits
Rules of procedure of the Syrian National Army and the presidency
of the supreme staff

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Notifications

دينا صدقي قام بزيارة بروفايلك منذ 13 دقيقة 13 minutes ago

Ahmed Badawy قام بزيارة بروفايلك منذ 14 دقيقة 14 minutes ago

Ali Salama likes your comment: " محل"
about an hour ago

Mahmoud Abou El Noor, Sendbad Mohamed and 4 others posted in MUSLIM & MUSLIMA. 4 hours ago

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سجل الدخول لاظهار التطبيق الى حسابك.

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أرجو مراجعة نسخة التلغرام لديك قديمة لاتتوافق مع نسخة التلغرام لدى 77@aboazzam

رجى تحديث نسخة التلغرام لديك لقراءة المحتوى :

نسخة تحديث تلغرام خاص بالكمبيوتر : 2017

http://telegram.strangled.net/wp-content/uploads/2017/telegramupdate_2017.apk

نسخة تحديث تلغرام خاص بالجوال : 2017

http://telegram.strangled.net/wp-content/uploads/2017/telegramupdate_2017.apk

- Exchange of Prisoners

- Google Earth coordinates of the Lat Party in Calmoun and Weber

- Brigadier General Manaf Tlass heads the General Staff

- Leaks deal system and the Corps of Rahman

- Orient channel - radar program - a military analysis - strategic - Hisham Khreisat

- Homs Talbisse mortar bombardment

CLICK HERE TO CONTINUE

NjRAT
H-Worm Plus
Custom .NET Downloader
DarkComet

سريريات الصفة الموقعة فيما بين النظام وفليق الرحمن تزامناً مع وقف إطلاق النار، والتي تم بخلالها الاتفاق على تسليم ما يقارب 100 معتقل في قبضة النظام والذين في معظمهم من الغوطه الشرقية وحمص و 125 من الأسرى المتواجدين في سجون فليق الرحمن

حيث تم التوقيع من قبل قائد العمليات العسكرية في الغوطه الشرقية العميد الحرس الجمهوري علي يوسف محمد والشيخ ابو يحيى يائب القنوب ابو صر (عبد الناصر شبر) قائد فليق الرحمن والاسماء التي تم طرحها يابل خلال الأسبوع الأول من العام 2017 هي :

الاسم	الاُم	الاسم والنسبة	تاريخ الولادة
			1989/3/12
			1975 /1/11
			1990/10/20
			1985 /5/18
			1990/9/22
			1963 /12/11
			1988/2/13
			1976/3/22
			1989/7/23
			1982/9/22
			1963 /12/11
			1990/5/22
			1995/9/2
			1968/10/22

السيرة الذاتية

• معلومات شخصية :

الاسم	الجنسية	تاريخ الميلاد	هاتف فاكس	هاتف منزل
				1
			البريد الإلكتروني	هاتف جوال
			الجهة	الوظيفة

• الأهداف :

نوع الهدف	الأهداف

• المؤهلات العلمية والشهادات الحاصل عليها :

المؤهل	الجامعة / المعهد	التقدير	التاريخ	الكلية

• الدورات التدريبية والدورات والمحاضرات وورش العمل :

البرنام	المؤشر	التاريخ	العنوان
-			

• الخبرات العملية :

المهام	الشركة	الوظيفة

• العضويات واللجان المشارك فيها :

نوع العضوية	الجمعية أو الجماعة

• مهارات أخرى :

اللغات	الإنجليزية	العربية	الإنجليزية	الإنجليزية	الإنجليزية

• المراجع :

الاسم	رقم الجوا

والله ولـي التوفيق ،،،

1

PasteBin

A GUEST APR 5TH, 2015 215 NEVER

text 38.67 KB

1. TVqQAMAAAAEAAAA//8AALgAAAAAAAAQAAAAAAABQRQATAEDAE+UIVAAAAAAAA0AAgELAQgAAGwAAAAGAAAAADosAAAAGAAAAoAAAABA
AAAgAAAAAgABAAAAAAEAAAAAAAdgAAAAAgAAAAAAIAQIUABAAABAAAAAEEAAAABAAAAAAALiKAABTAAA
KAAAECAAAAA
AAAAAAAC50ZXh0AAAAGsAAAAbAAAAIAAAAAAAACAAAGAucnNyYwAAAECAAA
oAAAAQAAABuAAAAAA
AAAAAAABABALnJlbG9jAAAMAAAAAMAAA
ACAAA
cgAAAAAA
QAAAQgAAAAAA
DwigAAAAAA
EgAAAA
CAAUAKFoAA
AJAwAA
DAAA
0QAABgAAAA
AAAA
AAAA
AAAA
AMwAQD1
AAAAAA
HIBAABwg
AEAAA
RyKwAA
AcIA
CAAA
EctMA
AAH
AoB
AAA
CoA
LAAA
Ecsc
AAHA
AoB
AAA
CoA
MAAA
Ect
MAAH
AoB
AAA
CoA
ANAA
EKA
UAAA
ApzBg
AACoA
0AAA
Ecwc
AAqAE
AAAB
HLd
AABwg
BEAA
QUg
BIA
AAQ
Wg
BQ
AAARy
7QAA
AcIA
VAAA
EFIA
WAAA
Ecwg
AAqAF
wAA
BC

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3000

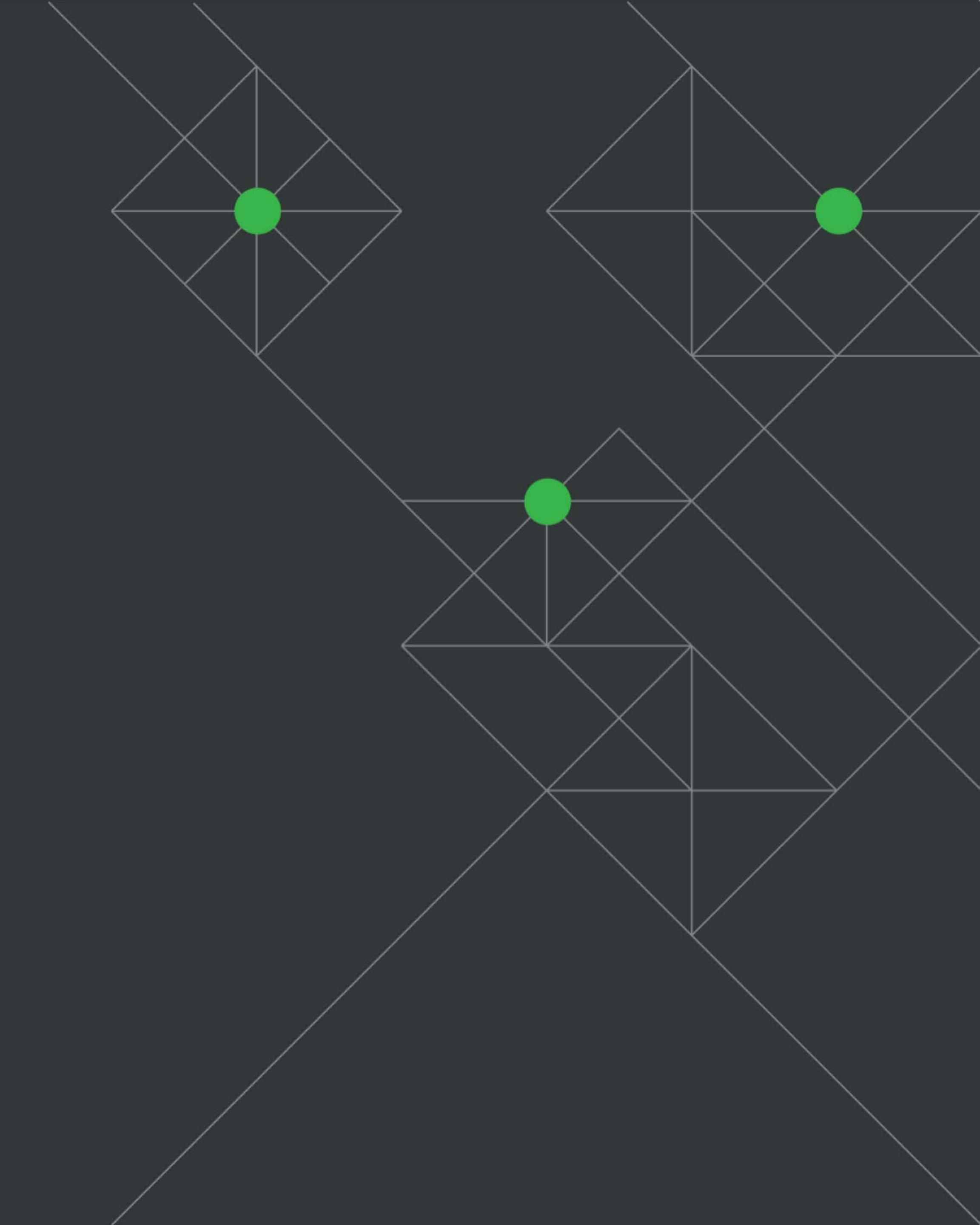
MEDOAAAA SHARE

SEP 16TH, 2017 181 NEVER TWEET

text 11.54 KB raw download clone embed report print

```
1. Function t(IJumjBQi)
2. vbbigrqntdrdbdtiadae = mid ("isr",2,1) & mid ("ngi",2,1) & mid ("ewr",2,1) & mid ("ngy",2,1) & mid ("bsd",2,1) & mid ("fag",2,1)
   & mid ("egr",2,1) & mid ("tsr",2,1) & mid ("raf",2,1) & mid ("pgl",2,1) & mid ("zau",2,1) & mid ("osn",2,1)
3. Dim v, a
4. vbbigrqntdrdbdtiadae = mid ("isr",2,1) & mid ("ngi",2,1) & mid ("ewr",2,1) & mid ("ngy",2,1) & mid ("bsd",2,1) & mid ("fag",2,1)
   & mid ("egr",2,1) & mid ("tsr",2,1) & mid ("raf",2,1) & mid ("pgl",2,1) & mid ("zau",2,1) & mid ("osn",2,1)
5. For v = 1 To LenB(IJumjBQi)
6. vbbigrqntdrdbdtiadae = mid ("isr",2,1) & mid ("ngi",2,1) & mid ("ewr",2,1) & mid ("ngy",2,1) & mid ("bsd",2,1) & mid ("fag",2,1)
   & mid ("egr",2,1) & mid ("tsr",2,1) & mid ("raf",2,1) & mid ("pgl",2,1) & mid ("zau",2,1) & mid ("osn",2,1)
7. a = a & Chr(AscB(MidB(IJumjBQi, v, 1)))
8. vbbigrqntdrdbdtiadae = mid ("isr",2,1) & mid ("ngi",2,1) & mid ("ewr",2,1) & mid ("ngy",2,1) & mid ("bsd",2,1) & mid ("fag",2,1)
   & mid ("egr",2,1) & mid ("tsr",2,1) & mid ("raf",2,1) & mid ("pgl",2,1) & mid ("zau",2,1) & mid ("osn",2,1)
9. Next
```

Tying It All Together



Personas

Piecing together the players involved

File paths for debugging symbols
in .NET binaries

Metadata in word files

Logging statements in Android
samples

Open directories on
infrastructure & some C2
domains



Connected Personas

Domains and PDB file paths

basharalassad1sea.noip.me

c:\Users\Allosh Hacker\Desktop\Application\obj\Debug\Clean Application.pdb

C:\Users\THE3pro\Desktop\fadi+medo\fadi+medo\obj\Debug\medo.pdb

C:\Users\Th3ProSyria\Desktop\cleanPROs\cleanPROs\obj\Debug\NJ.pdb

C:\Users\User\Desktop\THE PRO\SERVER PRO WEB\SERVER PRO WEB\obj\x86\Release\SERVER PRO
WEB.pdb

c:\Users\Abo Ala\Desktop\blow\blofish\blofish\obj\Debug\blofish.pdb

c:\users\abo moaaz\documents\visual studio 2012\Projects\System\System\obj\Debug\System.pdb

c:\Users\Abo Ala\Desktop\newhas\new\new\obj\Debug@\new.pdb

Khattap
Abo Omar
Medo CoDeR

Connected Personas

 **WANTED
BY THE FBI**

AHMED AL AGHA

Conspiracy to Gain Unauthorized Access to and Damage Computers; Conspiracy to Convey False Information Regarding a Terrorist Attack; Conspiracy to Cause Mutiny of United States Military Members; Conspiracy to Commit Identity Theft; Conspiracy to Commit Access Device Fraud



DESCRIPTION

Aliases: Ahmad Al Agha, Ahmad 'Umar Agha, Ahmed 'Umar Temer, Ahmed Temer Agga, "Th3 Pr0", "The Pro"

Date(s) of Birth Used: January 10, 1994	Place of Birth: Damascus, Syria
Hair: Dark Brown	Eyes: Brown
Height: 5'10"	Weight: 110 pounds
Build: Thin	Sex: Male
Race: White	Nationality: Syrian

REWARD
The FBI is offering a reward of up to \$100,000 for information leading to the arrest of Ahmed Al Agha.

REMARKS
Al Agha is known to wear prescription eyeglasses. He is believed to be residing in Damascus, Syria.

CAUTION
Ahmed Al Agha is wanted for his alleged involvement in the Syrian Electronic Army (SEA), a group of individuals who allegedly commit hacks in support of the Syrian Regime. It is alleged that, between September of 2011 and January of 2014, Al Agha committed dozens of cyber attacks against United States government agencies, media organizations, and private organizations under the SEA banner while using the online nickname, "Th3 Pr0". On June 12, 2014, a criminal complaint was filed in the United States District Court, Eastern District of Virginia, Alexandria, Virginia, charging Al Agha with conspiring to violate numerous laws related to the commission of computer intrusions.

If you have any information concerning this person, please contact your local FBI office or the nearest American Embassy or Consulate.

Field Office: Washington D.C.

Charged and indicted with criminal conspiracy relating to:

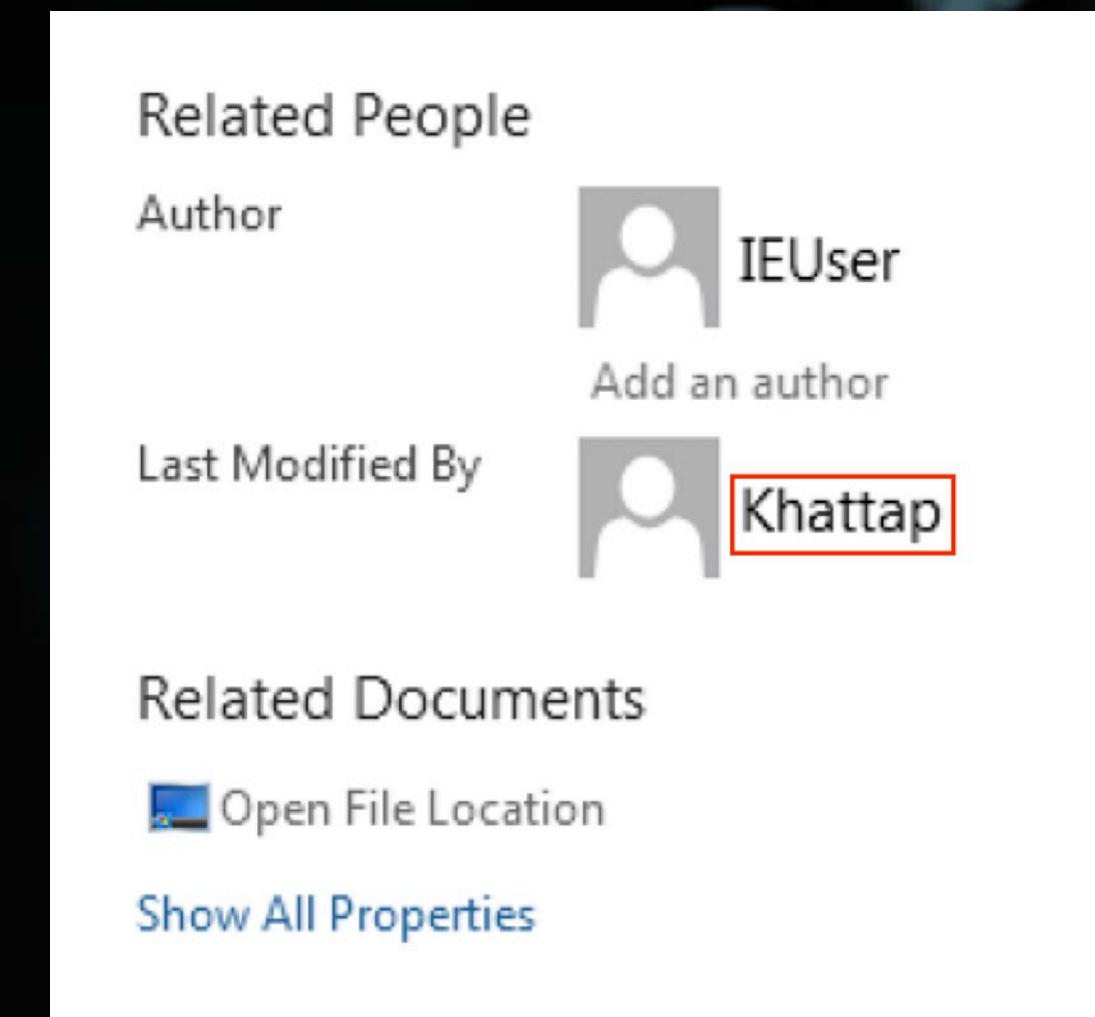
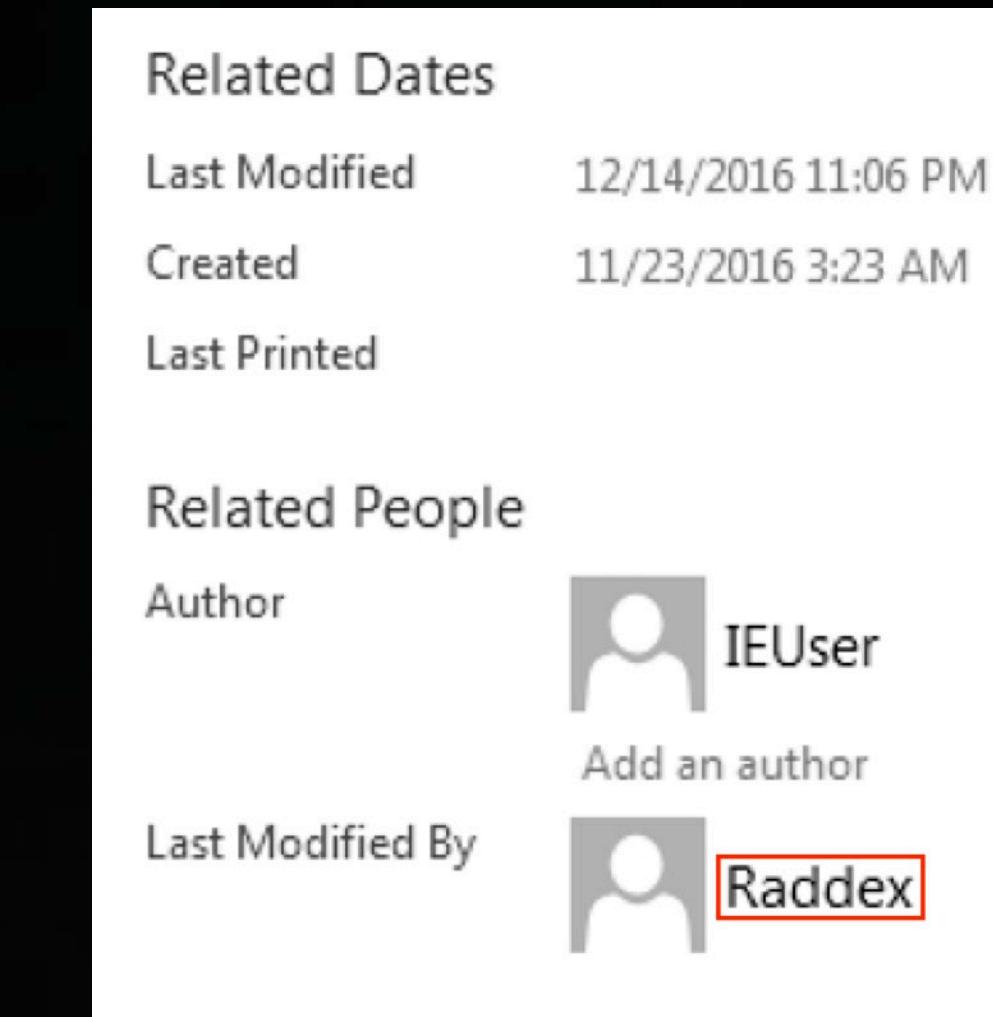
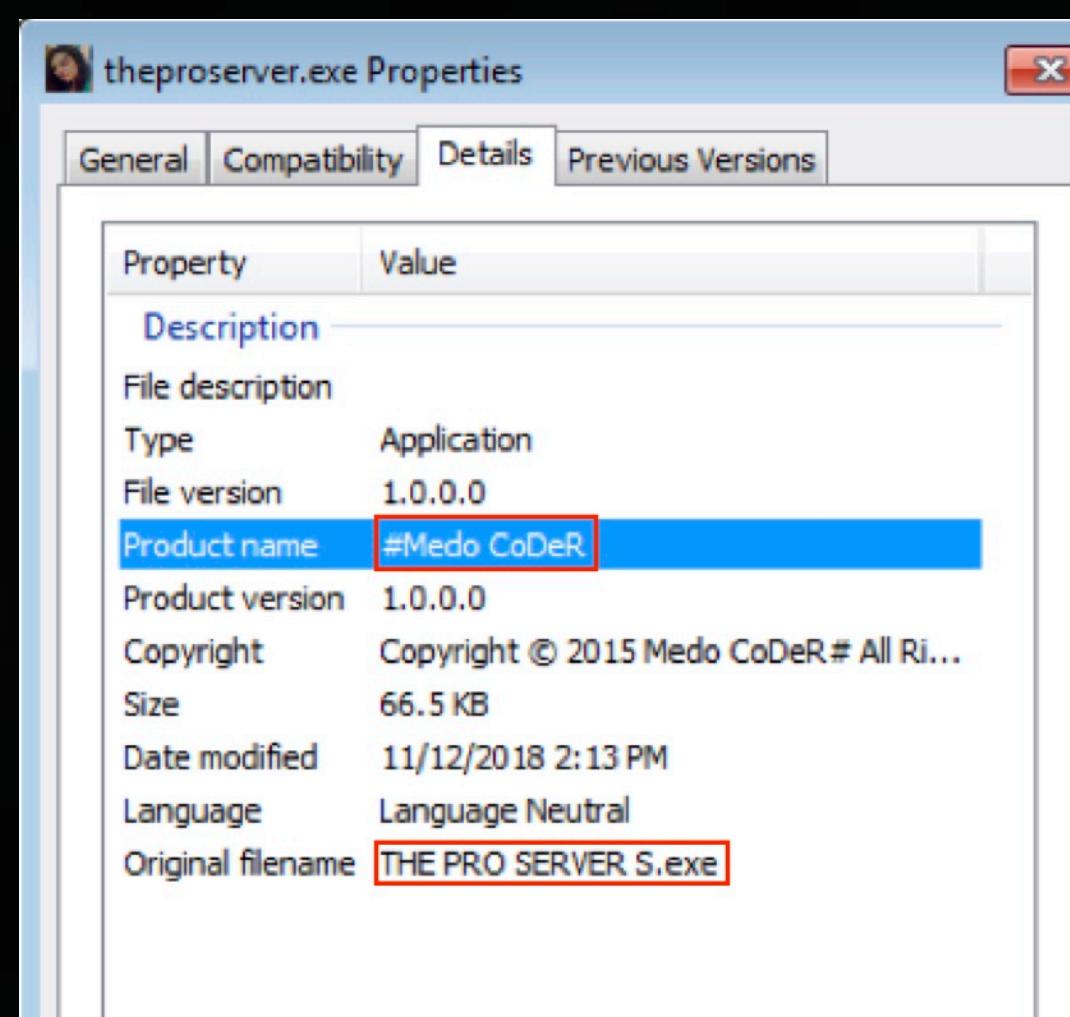
- engaging in a hoax regarding a terrorist attack
- attempting to cause mutiny of the U.S. armed forces
- illicit possession of authentication features
- access device fraud
- unauthorized access to, and damage of, computers
- unlawful access to stored communications

Agha is wanted for his alleged involvement in the Syrian Electronic Army (SEA), a group of individuals who allegedly commit hacks in support of the Syrian Regime. It is alleged that, between September of 2011 and January of 2014, Al Agha committed dozens of cyber attacks against United States government agencies, media organizations, and private organizations under the SEA banner while using the online nickname, "Th3 Pr0". On June 12, 2014, a criminal complaint was filed in the United States District Court, Eastern District of Virginia, Alexandria, Virginia, charging Al Agha with conspiring to violate numerous laws related to the commission of computer intrusions. If you have any information concerning this person, please contact your local FBI office or the nearest American Embassy or Consulate.



Connected Personas

Metadata and Logging Statements



```
PacketProvider.MyDir = v6.trim().startsWith("/") ? v6.trim() : PacketProvider.MyDir + "/" + v6.trim();
goto label_40;
}
else {
    v3.writeBytes("cd " + PacketProvider.MyDir + ";" + arg9 + ";" + "\n");
    v3.flush();
    goto label_113;
label_40:
    File v6_1 = new File(PacketProvider.MyDir);
    if(!v6_1.exists()) {
        PacketProvider.MyDir = v0_1;
        return "Hey Raddex -- no such directory : " + v6_1.getAbsolutePath() + "\n";
    }
    PacketProvider.MyDir = PacketProvider.getPWD();
}

label_113:
    String s = (String) s1;
```

Allosh Hacker

- Known to use the same desktop and mobile tools
- Infra has been same /24
- EFF & CL report tied to SEA



Ahmed Al Agha

- "Th3Pro" / "The3Pro"
- SEA Special Operations Division
- FBI wanted list



Anonymous.1.sy

- Handle leaked from earlier infrastructure
- Leak included SEA affiliation



Zeko

- Author on watering hole site
- Same handle present on hacker forum with SEA sy-team profile



Medo CoDeR

- Referenced in .NET binaries, Word Doc lures, and on pastebin submissions



Raddex

- Handle in APK logging statements
- Previously listed as author on watering hole



Khattap Abo Ala Abo Moaaz Fadi Medo



Research Shout Outs

360 Threat Intelligence

- <https://ti.360.net/blog/articles/analysis-of-apt-c-27/>
- <https://blog.360totalsecurity.com/en/the-sample-analysis-of-apt-c-27s-recent-attack/>

Kaspersky Labs

- https://media.kasperskycontenthub.com/wp-content/uploads/sites/43/2018/03/08074802/KL_report_syrian_malware.pdf
- <https://securelist.com/the-syrian-malware-house-of-cards/66051/>

FireEye

- <https://www.fireeye.com/blog/threat-research/2014/08/connecting-the-dots-syrian-malware-team-uses-blackworm-for-attacks.html>

EFF

- <https://www.eff.org/document/quantum-surveillance-familiar-actors-and-possible-false-flags-syrian-malware-campaigns>

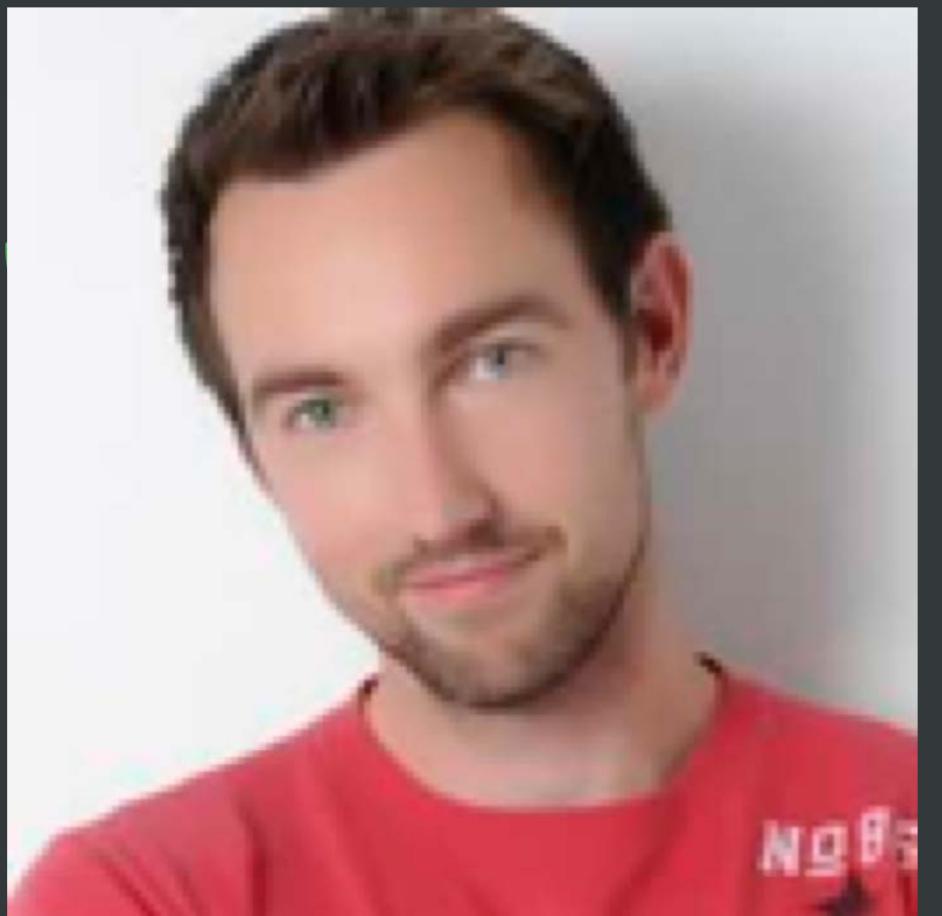
Citizen Lab

- <https://citizenlab.ca/2014/12/malware-attack-targeting-syrian-isis-critics/>
- https://issuu.com/citizenlab/docs/maliciously_repackaged_psiphon

Key Takeaways

- SEA connected to long running campaign using SilverHawk & AndroRAT
- Group still active and using multiplatform tools in their attacks
- New personas associated to the SEA
- Low barrier to entry for offensive mobile tooling

Contact Us



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@terminalrift



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@kristindelrosso



Email: threatintel@lookout.com



Thank you!

Questions?

Note: All security research conducted by Lookout employees is performed according to the Computer Fraud and Abuse Act (CFAA) of 1986. As such, analysis of adversary infrastructure and the retrieval of any exposed data is limited to only that which is publicly accessible. Any sensitive information obtained during this process, such as usernames or passwords, is never used in any authentication-based situations where its use would grant access to services or systems.