



Mobile Device Assessment

August 6, 2025

Prepared By: Scottie Cole

This page is intentionally left blank.

Table of Contents

Raxis Contacts	4
Engagement Scope Overview	5
<i>Rules of Engagement and Assumptions</i>	5
<i>Accounts</i>	5
<i>Scope Targets</i>	5
Executive Summary	6
<i>Assessment Objectives</i>	6
<i>Risk Summary</i>	7
<i>Positive Observations</i>	8
Engagement Storyboard	9
<i>Testing Methodology</i>	9
<i>Assessment Results</i>	15
Risk Analysis	17
<i>DREAD Scoring Criteria</i>	17
<i>Composite Risk Categories</i>	17
<i>Remediation Effort Key</i>	18
<i>Security Risk Findings</i>	18
Detailed Assessment Methodology	19
Detailed Assessment Results	20
Appendix A: DREAD Overview	54
Appendix B: Targets.....	55

Raxis Contacts

Scottie Cole			
Title	Principal Penetration Tester		
Phone	+1 (850) 525-2403	Email	scottie@raxis.com
Mark Puckett			
Title	Chief Executive Officer		
Phone	+1 (770) 814-1288	Email	mark@raxis.com
Bonnie Smyre			
Title	Chief Operating Officer		
Phone	+1 (404) 281-1096	Email	bonnie@raxis.com
Brian Tant			
Title	Chief Penetration Testing Officer		
Phone	+1 (678) 532-8268	Email	brian@raxis.com
Brad Herring			
Title	VP Business Development		
Phone	+1 (470) 351-0086	Email	brad@raxis.com
Tim Semchenko			
Title	Senior Manager - Operations and Customer Delivery		
Phone	+1 (617) 699-6964	Email	tim@raxis.com

Table 1: Points of Contact

Raxis LLC

2870 Peachtree Road #915-8924
 Atlanta, GA 30305

Engagement Scope Overview

Rules of Engagement and Assumptions

- Testing to occur during normal business hours.
- No Denial of Service (DoS) attacks.

Accounts

- No accounts were provided.

Scope Targets

- See Appendix B: Scope Targets

Executive Summary

Raxis conducted a mobile device assessment to assess third-party tracking connections of UnPlugged's UpPhone device against an Apple iPhone and Samsung Galaxy from August 5th through August 6th, 2025. This test was designed to provide UnPlugged with an independent, point-in-time, assessment of third-party tracker calls from mobile applications and network telemetry from each device.

Raxis conducted packet captures across all devices and used custom scripts to examine all captured packets to assess third-party tracker connections against a list of 223,218 known third-party tracking domains, including wildcard domains. Raxis installed and tested 33 mobile applications across all devices and interacted with each app for approximately two-minutes while performing packet captures from each device. When prompted by mobile apps, Raxis selected "ask app to not track."

Raxis found that the Apple iPhone performed 3,181 DNS requests to third-party tracking domains and sent and received a total of 210,748 packets to the trackers during testing. Raxis found that the Samsung Galaxy performed 1,368 DNS requests to third-party tracking domains and sent and received a total of 171,467 packets to the trackers during testing. Raxis found no evidence in packet captures of DNS lookups or packets sent or received from the UpPhone to third-party tracking sites during testing.

Based on the testing performed by Raxis, the overall risk to UnPlugged's UpPhone is "Low."

Assessment Objectives

- Document and demonstrate likely attack vectors.
- Quantify the impact of successful attacks through active exploitation.
- Identify specific vulnerabilities that can be remediated to improve security.
- Recommend ways to improve UnPlugged's overall security posture.

Risk Summary

The following chart provides a summary of UnPlugged's risk ratings:

CRITICAL	SEVERE	MODERATE	LOW
0	0	0	0

Table 2: Risk Summary

UnPlugged's overall risk rating is:



Risk ratings are based on the vulnerabilities and technical risks observed during this assessment, including:

- The ease with which attacks can be executed.
- The impact of the executed attacks on information security.
- The organization's ability to detect and react to executed attacks.
- A comparison of UnPlugged's security posture against other organizations of similar size.

While organizations may not be able to fully remediate all findings because of circumstances beyond their control, Raxis recommends that action be taken to secure all vulnerable systems and services.

- Fully remediate the finding using the steps in this report or other solutions.
- Remove the vulnerable system or software and replace with secure alternatives.
- Mitigate the risk by implementing other protections to segment or block exploitation of the finding.
- Purchase insurance to protect the organization in the event the risk is exploited.

Positive Observations

This table notes positive findings discovered during testing, including controls that correctly restricted testing activities.

#	Finding	Positive Finding Description
1	DNS Lookups	Raxis found that the UpPhone did not perform any DNS lookups to sites on the provided blacklist.
2	TCP Connections	Raxis found that the UpPhone did not connect to any trackers on the provided blacklist.

Table 3: Positive Observations

Engagement Storyboard

This section explains the steps that Raxis performed during the device assessment.

Testing Methodology

UnPlugged provided Raxis with a newly purchased, unopened Apple iPhone and Samsung Galaxy, as well an UpPhone for testing. Raxis deployed an isolated network for testing with a dedicated ISP, firewall, network switch, wireless access point, and a computer to capture all traffic during the assessment. Raxis factory reset and updated all phones to the latest, supported versions. Raxis installed 33 scoped mobile applications across the devices for testing and performed actions within each application for approximately two minutes.

Raxis connected the wireless access point and computer to the same switch. Raxis then configured a port mirror to mirror all traffic from the wireless access point to the computer for packet captures, as shown in Figure 1:

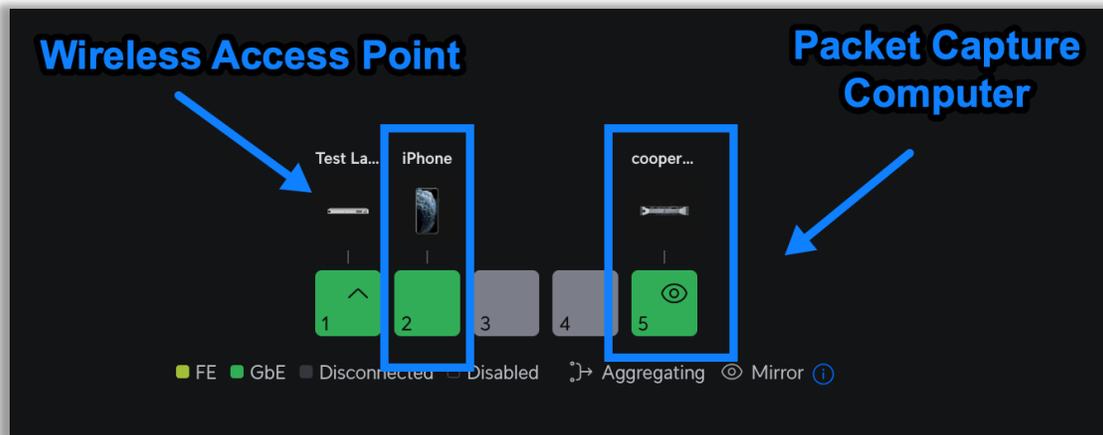


Figure 1: Port Mirror

Raxis powered on only one device at a time for testing to isolate traffic from each provided phone. Raxis used Wireshark on the connected computer to capture all traffic from the phones and wireless access point. Figure 2 shows the captures for the Samsung Galaxy:

No.	Time	Source	Destination	Protocol	Length	Info
83	0.167220826	192.168.1.36	74.125.138.95	UDP	1292	35600 → 443 Len=1250
84	0.167221277	192.168.1.36	74.125.138.95	UDP	1292	35600 → 443 Len=1250
85	0.167221393	192.168.1.36	74.125.138.95	UDP	1035	35600 → 443 Len=993
86	0.170309811	192.168.1.36	34.48.45.29	TCP	74	41372 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 SACK_PERM TSval=3518833814 TSecr=19183902
87	0.172081097	108.177.122.95	192.168.1.36	UDP	66	443 → 50153 Len=24
88	0.172081543	34.218.9.86	192.168.1.36	TCP	66	443 → 43398 [ACK] Seq=57 Ack=32 Win=132 Len=0 TSval=1646755339 TSecr=2675921499
89	0.172356418	192.168.1.1	192.168.1.145	DNS	270	Standard query response 0x3ad9 A cryptauthdevicesync.googleapis.com A 108.177.1.1
90	0.176475341	192.168.1.36	108.177.122.95	TCP	74	58922 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 SACK_PERM TSval=1537486749 TSecr=19183902
91	0.180031484	35.90.24.44	192.168.1.36	TCP	66	4460 → 46578 [ACK] Seq=414 Ack=65 Win=486 Len=0 TSval=1307057870 TSecr=19183902
92	0.183211008	192.168.1.36	35.90.24.44	TLSv1...	104	Application Data
93	0.188020114	150.171.22.17	192.168.1.36	TCP	60	443 → 41636 [ACK] Seq=1 Ack=518 Win=4194048 Len=0
94	0.188020561	142.251.15.95	192.168.1.36	TCP	564	[TCP Retransmission] 443 → 53974 [PSH, ACK] Seq=61 Ack=326 Win=1044 Len=498 TSval=1307057870 TSecr=19183902
95	0.188020676	172.253.124.207	192.168.1.36	TCP	97	[TCP Retransmission] 443 → 37404 [PSH, ACK] Seq=1298 Ack=1 Win=1047 Len=31 TSval=1307057870 TSecr=19183902
96	0.188259237	150.171.22.17	192.168.1.36	TCP	2974	443 → 41636 [ACK] Seq=1 Ack=518 Win=4194048 Len=2920 [TCP PDU reassembled in 97]
97	0.188515774	150.171.22.17	192.168.1.36	TLSv1...	3135	Server Hello, Certificate, Certificate Status, Server Key Exchange, Server Hello Done
98	0.191018129	192.168.1.36	150.171.22.17	TCP	60	41636 → 443 [ACK] Seq=518 Ack=1461 Win=68608 Len=0
99	0.191018570	192.168.1.36	150.171.22.17	TCP	60	41636 → 443 [ACK] Seq=518 Ack=2921 Win=71680 Len=0
100	0.191018685	192.168.1.36	150.171.22.17	TCP	60	41636 → 443 [ACK] Seq=518 Ack=4381 Win=74752 Len=0

Figure 2: Samsung Packet Capture

Raxis next loaded and interacted with the scoped mobile applications for approximately two-minutes before moving to the next mobile application. Figure 3 shows Raxis interacting with DuoLingo:



Figure 3: DuoLingo

Assessment Results

Raxis used a list of 223,218 provided third-party tracker domains to correlate results from the packet captures for each tested device. Raxis found that the Apple iPhone performed 3,181 DNS requests to third-party tracking domains and sent and received a total of 210,748 packets to the trackers during the testing window. Raxis found that the Samsung Galaxy performed 1,368 DNS requests to third-party tracking domains and sent and received a total of 171,467 packets to the trackers during testing. Raxis found no evidence in packet captures that the UpPhone performed any DNS requests or connections to third-party tracker A records or IP addresses during testing.

Figure 10 shows an excerpt from the DNS lookups discovered during testing for the iPhone:

1	Domain	DNS Queries
571	googleads.g.doubleclick.net	24
572	www.lightboxcdn.com	4
573	mads.amazon-adsystem.com	8
574	3.datadog.pool.ntp.org	2
575	bea4.v.fwmrm.net	4
576	cnam4c-inapps.appsflyersdk.com	8
577	nbsume.sc.omtrdc.net	4
578	sdk-04.moengage.com	4
579	jxkfn-dynamic-report-api.appsflyersdk.com	4
580	tagged-by.rubiconproject.net.akadns.net	8
581	img.riskified.com	6
582	dmp.truoptik.com	4
583	jxkfn-cdn-settings.appsflyersdk.com	4
584	885e2dd94adb263c2321d2d0f3778d185	4
585	eq97f.publishers.tremorhub.com	4
586	dsohp.litix.io	2
587	fastly-mobile-collector.newrelic.com	2
588	control.kochava.com	4
589	cnam4c-attr.appsflyersdk.com	4
590	scripts.webcontentassessor.com	4
591	www.google-analytics.com	10
592	i-sdk.mediation.unity3d.com	4
593	reachms.bfmio.com	4
594	ek6rpv-conversions.appsflyersdk.com	4
595	vqlbo5-cdn-settings.appsflyersdk.com	4
596	idaas6.cph.liveintent.com	2
597		
598	Total	3181

Figure 10: iPhone DNS Results

Figure 11 shows an excerpt from the total connection count from the Samsung Galaxy to third-party tracker resolved IP addresses:

1	Target IP	As Source	As Destination	Total
1180	75.101.221.1	0	0	0
1181	76.223.14.12	0	0	0
1182	79.137.99.23	0	0	0
1183	8.18.47.7	0	0	0
1184	8.28.7.81	28	30	58
1185	8.28.7.82	22	20	42
1186	8.28.7.83	120	94	214
1187	8.28.7.84	24	20	44
1188	80.77.82.130	12	15	27
1189	80.82.210.21	12	13	25
1190	82.145.213.8	18	26	44
1191	91.134.85.18	0	0	0
1192	91.134.85.63	0	0	0
1193	98.80.158.21	9	11	20
1194	98.82.154.76	13	17	30
1195	98.82.156.10	35	43	78
1196	98.82.157.13	14	15	29
1197	98.82.157.23	10	16	26
1198	98.82.241.17	0	0	0
1199	98.83.55.127	0	0	0
1200	98.86.185.21	0	0	0
1201				
1202	Total	99374	72093	171467

Figure 11: Samsung Traffic Totals

Risk Analysis

Each area of risk is analyzed using the DREAD framework. This framework is adaptive, allowing these risk findings to be rated based on the context of the affected environment. For example, a vulnerability that affects a non-critical system located in a heavily protected subnet has a lower risk score than a critical system affected by the same issue. The following charts describe how the DREAD framework is applied when calculating technical risk as well as the remediation efforts associated with each finding. See Appendix A: DREAD Overview for a detailed explanation of the framework.

DREAD Scoring Criteria

Damage Potential	Reproducibility	Exploitability	Affected Users	Discoverability
If a threat occurs, how much damage will be caused?	How easy is it to reproduce the threat?	What is needed to exploit this threat?	How many users will be affected?	How easy is it to discover this threat?

Table 4: DREAD Scoring Criteria

Composite Risk Categories

Risk Score	Risk Description
Critical 40–50	Critical risk findings must be considered a high priority when assessing overall security posture and risk remediation. These vulnerabilities can be easily exploited and may negatively impact business operations and continuity.
Severe 25–39	Severe risk findings should be reviewed and remediated within a short time frame. These vulnerabilities may allow access to organizational assets and data or be leveraged to create further issues within the security posture.
Moderate 11–24	Moderate risk findings should be addressed after critical and severe findings have been remediated. While these findings may allow exploitation of other vulnerabilities, they do not pose a substantial threat to business operations and continuity.
Low 1–10	Low risk findings are informational and do not pose a significant risk to business operations and continuity. These vulnerabilities should be considered for remediation on a case-by-case basis.

Table 5: Risk Categories

Remediation Effort Key

Effort	Description
High	High remediation effort findings are significant, multi-resource endeavors that may span over a considerable amount of time. Each finding may require a large overhaul in network architecture or security practices.
Medium	Medium remediation effort findings can take several days to remediate and require a moderate amount of resources.
Low	Low remediation effort findings require minimal resources and can be remediated in less than a day.

Table 6: Remediation Effort

Security Risk Findings

Security Risk Finding	Risk Score	Effort
CRITICAL	(40-50)	
SEVERE	(25-39)	
MODERATE	(11-24)	
LOW	(1-10)	

Table 7: Risk Summary

Detailed Assessment Methodology

UnPlugged provided Raxis with a testing methodology as follows:

Apps Tested

American Airlines	Bloomberg	Booking.com	Bumble	Camscanner
Candy Crush	Canva	CNN	Duolingo	Ebay
ESPN	Etsy	Expedia	Foxnews	Hilton
Kayak	Marriot Bonvoy	NBC News	Nike	NY Times
Outlook	Pinterest	Quizlet	Roblox	Shein
Snapchat	Southwest Airlines	Spotify	The weather channel	Tripadvisor
United Airlines	Words with friends	Yelp		

Raxis performed isolated packet captures against the three devices using Wireshark. Raxis followed the following testing sequence for each device:

1. Login to the app.
2. Select "Ask App to not track" when prompted.
3. Use the app for at least two minutes each:
 - a. In news apps, navigate to at least five pages.
 - b. In travel apps, perform at least three searches and view one item from each set of results.
 - c. In games, play the game and navigate the game menus.
 - d. In shopping apps, use search at least three times and visit at least three item pages. Add to cart and go through the order process as far as possible without making an order.

Detailed Assessment Results

UpPhone

- Zero DNS lookups to known tracker A records.
- Zero connections to known trackers.

Apple iPhone

Domain Tracker Lookups

Domain	DNS Queries
app-analytics-services.com	60
tpc.google syndication.com	38
www.googletag services.com	28
tps.doubleverify.com	28
googleads.g.doubleclick.net	24
dpm.demdex.net	20
cdn.branch.io	20
firebase logging-pa.googleapis.com	18
cdn.cookie law.org	18
www.googletag manager.com	18
pagead2.google syndication.com	18
ib.anycast.adnxs.com	16
pubads.g.doubleclick.net	16
sb.scorecard research.com	16
s.amazon-ad system.com	16
mobile-data.onetrust.io	16
cdn.doubleverify.com	16
remote-data.urbanairship.com	14
securepubads.g.doubleclick.net	14

aax-events-cell01-cf.us-east.aps.axp.amazon-adsystem.com	14
aax.amazon-adsystem.com	14
csi.gstatic.com	14
device-api.urbanairship.com	14
api3.branch.io	14
combine.urbanairship.com	14
js-sec.indexww.com	14
ping.chartbeat.net	12
id5-sync.com	12
api.apptentive.com	12
cm.g.doubleclick.net	12
gum.criteo.com	12
c.amazon-adsystem.com	12
cdn-gl.imrworldwide.com	12
ssum-sec.casalemedia.com	12
cdn.indexww.com	12
ca.iadsdk.apple.com	12
api2.branch.io	12
htlb.casalemedia.com	12
hbopenbid.pubmatic.com	12
us-east-tlx.3lift.com	10
ssl.google-analytics.com	10
browser-intake-datadoghq.com	10
config.emb-api.com	10
p1.parsely.com	10
dsum-sec.casalemedia.com	10
www.google-analytics.com	10
logs.ads.vungle.com	9
fw.adsafeprotected.com	8

cdn.quantummetric.com	8
eb2.3lift.com	8
rl.quantummetric.com	8
sdk.iad-03.braze.com	8
s0.2mdn.net	8
pippio.com	8
entitlements.jwplayer.com	8
mobile-collector.newrelic.com	8
c.aps.amazon-adsystem.com	8
analytics.adjust.com	8
gcdn.2mdn.net	8
js-agent.newrelic.com	8
beacon.taboola.com	8
logx.optimizely.com	8
log.outbrainimg.com	8
cnam4c-skadssdkless.appsflyersdk.com	8
l.evidon.com	8
image8.pubmatic.com	8
st.pubmatic.com	8
ib.adnxs.com	8
token.rubiconproject.com	8
images.taboola.com	8
cdn.optimizely.com	8
cdn-lb.vungle.com	8
eventlog.outbrain.com	8
tagan.adlightning.com	8
h64.online-metrix.net	8
warp.media.net	8
pixel.rubiconproject.net.akadns.net	8

nbcume.hb-api.omtrdc.net	8
grid-bidder.criteo.com	8
googleads4.g.doubleclick.net	8
metrics.icloud.com	8
video-ads-module.ad-tech.nbcuni.com	8
cdn.taboola.com	8
collector.cdp.cnn.com	8
sdk.iad-05.braze.com	8
gum.us5.vip.prod.criteo.com	8
fastlane.rubiconproject.com	8
ade.google syndication.com	8
ts.amazon-adsystem.com	8
tlx.3lift.com	8
data.emb-api.com	8
ads.stickyadstv.com	8
cnam4c-launches.appsflyersdk.com	8
cdn.parsely.com	8
prebid.media.net	8
targeting.unrulymedia.com	8
config.aps.amazon-adsystem.com	8
c.betrad.com	8
client-side-metrics.us5.us.criteo.net	8
vision.fn-pz.com	8
cdn-f.adsmoloco.com	8
c.evidon.com	8
ad.doubleclick.net	8
pagead2.googleadservices.com	8
prd.jwpltx.com	8
client.aps.amazon-adsystem.com	8

wave.outbrain.com	8
ads.pubmatic.com	8
mcdp-chidc2.outbrain.com	8
secure-us-east-2.imrworldwide.com	8
eus.rubiconproject.com	8
smetrics.foxnews.com	8
cnam4c-gcdsdk.appsflyersdk.com	8
rtb.openx.net	8
trc.taboola.com	8
match.adsrvr.org	8
static.adsafeprotected.com	8
idsync.rlcdn.com	8
www.datadoghq-browser-agent.com	8
hbx.media.net	8
mads.amazon-adsystem.com	8
cnam4c-inapps.appsflyersdk.com	8
tagged-by.rubiconproject.net.akadns.net	8
tps-ue1.doubleverify.com	6
4rtlop-dynamic-config-api.appsflyersdk.com	6
4rtlop-gcdsdk.appsflyersdk.com	6
config.ads.vungle.com	6
config2.mparticle.com	6
mparticle.map.fastly.net	6
chidc2.outbrain.org	6
va-edge.sc.omtrdc.net	6
census.us-east-2.nielsencollections.com	6
ingest.quantummetric.com	6
ml314.com	6
api.mixpanel.com	6

4rtlop-attr.appsflyersdk.com	6
sdk.e.qq.com	6
api.iterable.com	6
census.us-east-1.nielsencollections.com	6
cdn.id5-sync.com	6
us-east-eb2.3lift.com	6
img.riskified.com	6
a.et.nytimes.com	5
4rtlop-dynamic-report-api.appsflyersdk.com	5
4rtlop-skadskless.appsflyersdk.com	5
885e2dd94adb263c2321d2d0f3778d18523bce4a.cws.conviva.com	5
jf8kqj-skadsk.appsflyersdk.com	4
geolocation.onetrust.com	4
krk2.kargo.com	4
braze-images.com	4
usasync01.admantx.com	4
jxkffn-attr.appsflyersdk.com	4
vqlbo5-dlsdk.appsflyersdk.com	4
cdn.rates.consumertrack.com	4
signal-beacon.s-onetag.com	4
in-ftd-170.us5.vip.prod.criteo.com	4
adservice.google.com	4
vqlbo5-dynamic-report-api.appsflyersdk.com	4
grid.bidswitch.net	4
4rtlop-cdn-settings.appsflyersdk.com	4
bztld4-dynamic-report-api.appsflyersdk.com	4
fr-actions.trackonomics.net	4
jf8kqj-dynamic-report-api.appsflyersdk.com	4
bijmry-inapps.appsflyersdk.com	4

bztlid4-skadskless.appsflyersdk.com	4
clzbnm.dlsdk.appsflyersdk.com	4
vqlbo5-conversions.appsflyersdk.com	4
vqlbo5-dynamic-config-api.appsflyersdk.com	4
4rtlop-skadsk.appsflyersdk.com	4
g2.gumgum.com	4
lightning.cnn.com	4
beacon.tru.am	4
ek6rpv-cdn-settings.appsflyersdk.com	4
o293668.ingest.us.sentry.io	4
secure.insightexpressai.com	4
ek6rpv-skadsk.appsflyersdk.com	4
usersync.gumgum.com	4
bh.contextweb.com	4
sdk.iad-03.braze.com.cdn.cloudflare.net	4
clzbnm.attr.appsflyersdk.com	4
tracker.samplicio.us	4
arg.atomex.net	4
ae.iads.unity3d.com	4
clzbnm.inapps.appsflyersdk.com	4
trk.atomex.net	4
stats.g.doubleclick.net	4
clzbnm.conversions.appsflyersdk.com	4
trk.pinterest.com	4
rules.quantcount.com	4
acdn.adnxs.com	4
oa.openxcdn.net	4
prg.smartadserver.com	4
api.nike.com.edgekey.net	4

grid-mercury.criteo.com	4
pixel.adsafeprotected.com	4
direct-events-collector.spot.im	4
ce.lijit.com	4
a5lng2.skadssdk.appsflyersdk.com	4
sdk.iad-01.braze.com	4
mobile.adsafeprotected.com	4
bcp.crowdctrl.net	4
elgvhc-attr.appsflyersdk.com	4
tracker.nbcuas.com	4
static.chartbeat.com	4
ets-us-east-1.track.smaato.net	4
secure-us.imrworldwide.com	4
vidstatb.taboola.com	4
iteratehq.com	4
turnip.cdn.turner.com	4
tps-dn-ue1.doubleverify.com	4
jf8kqj-cdn-settings.appsflyersdk.com	4
segment-data-us-east.zqtk.net	4
imagesync-vac.pubmnet.com	4
amplify-imp.outbrain.com	4
analytics.nike.com	4
insights-collector.newrelic.com	4
rumcdn.geoedge.be	4
ads.yieldmo.com	4
mb.moatads.com	4
rtb-use.mfadsrvr.com	4
attr.appsflyer.com	4
us-east-sync.bidswitch.net	4

o4506106988134400.ingest.us.sentry.io	4
signal-metrics-collector-beta.s-onetag.com	4
images.mediago.io	4
hblg.media.net	4
ad.360yield.com	4
a5lng2.skadskless.appsflyersdk.com	4
a597.casalemedia.com	4
a2717.casalemedia.com	4
cdn.boomtrain.com	4
clzbnm.cdn-settings.appsflyersdk.com	4
direct.adsrvr.org	4
vidstat.taboola.com	4
elgvhc-launches.appsflyersdk.com	4
events.browsiprod.com	4
prebid-server.rubiconproject.com	4
ek6rpv-dynamic-report-api.appsflyersdk.com	4
webview.unityads.unity3d.com	4
btloader.com	4
cdn.adsafeprotected.com	4
c.go-mpulse.net	4
skadsk.appsflyer.com	4
s.ntv.io	4
a5lng2.cdn-settings.appsflyersdk.com	4
cdn.liftoff-creatives.io	4
kvinit-prod.api.kochava.com	4
elgvhc-skadskless.appsflyersdk.com	4
jxkffn-inapps.appsflyersdk.com	4
elgvhc-dynamic-report-api.appsflyersdk.com	4
assets.bounceexchange.com	4

ids.cdnwidget.com	4
ch-vid-events.taboola.com	4
b.scorecardresearch.com	4
init.supersonicads.com	4
u.openx.net	4
z-na.amazon-adsystem.com	4
beacon-nf.rubiconproject.com	4
rp.liadm.com	4
jf8kqj-gcdsdk.appsflyersdk.com	4
cdn3.optimizely.com	4
29773.v.fwmrm.net	4
nondescriptnote.com	4
client-side-metrics.us5.vip.prod.criteo.net	4
jf8kqj-dlsdk.appsflyersdk.com	4
i-adq.mediation.unity3d.com	4
t.skimresources.com	4
4rtlop-inapps.appsflyersdk.com	4
sq-tungsten-ts.amazon-adsystem.com	4
nativesdks.mparticle.com	4
4rtlop-conversions.appsflyersdk.com	4
a5lng2.gcdsdk.appsflyersdk.com	4
px.ads.linkedin.com	4
dfp.bouncex.net	4
nym2-ib.adnxs.com	4
tru.am	4
connect-metrics-collector.s-onetag.com	4
tag.researchnow.com	4
configv2.unityads.unity3d.com	4
o13855.ingest.sentry.io	4

httpkafka.unityads.unity3d.com	4
events.mz.unity3d.com	4
pixel-us-east.rubiconproject.com	4
sync-tm.everesttech.net	4
media-cdn.ipredictive.com	4
stags.bluekai.com	4
static.cloudflareinsights.com	4
ads.rubiconproject.com	4
c.riskified.com	4
jf8kqj-attr.appsflyersdk.com	4
ad-delivery.net	4
vst.c.appier.net	4
s.cdn.turner.com	4
bztld4-skadsdk.appsflyersdk.com	4
imprchmp.taboola.com	4
events2-us-east-1.ipredictive.com	4
ek6rpv-skadskless.appsflyersdk.com	4
events-us-east-1.ipredictive.com	4
ipds.adrta.com	4
match.prod.bidr.io	4
view.cdnbasket.net	4
amplify.outbrain.com	4
foxnews.com.ssl.d1.sc.omtrdc.net	4
pm-widget.taboola.com	4
a1650.casalemedia.com	4
inapps.appsflyer.com	4
mboxedge34.tt.omtrdc.net	4
vqlbo5-gcdsdk.appsflyersdk.com	4
bijmry-attr.appsflyersdk.com	4

media.admob.com	4
tag.wknd.ai	4
jadserve.postrelease.com	4
cadmus.script.ac	4
nbcuni.demdex.net	4
nydc1.outbrain.org	4
vqlbo5-inapps.appsflyersdk.com	4
cdn-magiclinks.trackonomics.net	4
www.hilton.com.edgekey.net	4
pix.spot.im	4
api.rlcdn.com	4
cdn-settings.appsflyersdk.com	4
bam.nr-data.net	4
ad.turn.com	4
www.ugdturner.com	4
americanairlines.tt.omtrdc.net	4
cnam4c-skadsdk.appsflyersdk.com	4
launches.appsflyer.com	4
ap.lijit.com	4
bijmry-dynamic-report-api.appsflyersdk.com	4
ox-rtb-us-east1.openx.net	4
ch-wf.taboola.com	4
tr.outbrain.com	4
cdn.ml314.com	4
sdk.iad-04.braze.com	4
fundingchoicesmessages.google.com	4
rest.locuslabs.com	4
ct.pinterest.com	4
jxkffn-dynamic-config-api.appsflyersdk.com	4

prebid-a.rubiconproject.com	4
a5lmg2.dlsdk.appsflyersdk.com	4
mads.amazon.com	4
app-measurement.com	4
dlsdk.appsflyer.com	4
a5lmg2.conversions.appsflyersdk.com	4
bztlid4-launches.appsflyersdk.com	4
bijmry-skadsdkless.appsflyersdk.com	4
r.skimresources.com	4
elgvhc-conversions.appsflyersdk.com	4
8168974.fls.doubleclick.net	4
elgvhc-skadsdk.appsflyersdk.com	4
geo-tracker.smadex.com	4
x.bidswitch.net	4
sync.bfmio.com	4
jxkffn-gcdsdk.appsflyersdk.com	4
bijmry-dlsdk.appsflyersdk.com	4
cnam4c-dynamic-report-api.appsflyersdk.com	4
ls.skimresources.com	4
i.clean.gg	4
c.tvpixel.com	4
us-wf.taboola.com	4
api.btloader.com	4
zion.api.cnn.io	4
bijmry-gcdsdk.appsflyersdk.com	4
adobetarget.data.adobedc.net	4
a5lmg2.attr.appsflyersdk.com	4
id.sv.rkdms.com	4
elgvhc-dynamic-config-api.appsflyersdk.com	4

cws-iad4-slb10.conviva.com	4
jxkffn-launches.appsflyersdk.com	4
analytics.adjust.net.in	4
s.skimresources.com	4
foxnews.demdex.net	4
pub.doubleverify.com	4
bztld4-attr.appsflyersdk.com	4
885e2dd94adb263c2321d2d0f3778d18523bce4a.ipv6.cws.conviva.com	4
auction-load.unityads.unity3d.com	4
impression.appsflyer.com	4
bijmry-cdn-settings.appsflyersdk.com	4
nbcume.hb.omtrdc.net	4
z.cdp-dev.cnn.com	4
a5791.casalemedia.com	4
o-sdk.mediation.unity3d.com	4
api.sail-personalize.com	4
onsiterecs.api.boomtrain.com	4
meter-svc.nytimes.com	4
gob-pairb-nje1.pubmnet.com	4
a125375509.cdn.optimizely.com	4
aes.us-east.3px.axp.amazon-adsystem.com	4
jf8kqj-conversions.appsflyersdk.com	4
people.api.boomtrain.com	4
a5lmg2.dynamic-report-api.appsflyersdk.com	4
lb.eu-1-id5-sync.com	4
beacon-iad2.rubiconproject.com	4
images.outbrainimg.com	4
c00180-dl.urbanairship.com	4
ghent-gce-sc.bidswitch.net	4

sync.adap.tv	4
ek6rpv-attr.appsflyersdk.com	4
jxkffn-conversions.appsflyersdk.com	4
americanairlines.sc.omtrdc.net	4
als-svc.nytimes.com	4
widgets.outbrain.com	4
sync.intentiq.com	4
sdk.iad-06.braze.com	4
aswpsdkus.com	4
page.cdnbasket.net	4
vqlbo5-skadskless.appsflyersdk.com	4
live.rezync.com	4
i.liadm.com	4
jf8kqj-dynamic-config-api.appsflyersdk.com	4
gocm.c.appier.net	4
impression-east.liftoff.io	4
clzbnm.skadskless.appsflyersdk.com	4
cdn-store-icons-akamai-prd.unityads.unity3d.com	4
cdn.atomex.net	4
jf8kqj-skadskless.appsflyersdk.com	4
jxkffn-skadskless.appsflyersdk.com	4
metrics.roblox.com	4
platform.iteratehq.com	4
jssdkcdn.mparticle.com	4
get.s-onetag.com	4
conversions.appsflyer.com	4
track.activemetering.com	4
clzbnm.dynamic-config-api.appsflyersdk.com	4
bijmry-conversions.appsflyersdk.com	4

hilton.data.adobedc.net	4
identity.mparticle.com	4
bztl4-cdn-settings.appsflyersdk.com	4
elgvhc-dlsdk.appsflyersdk.com	4
secure.quantserve.com	4
aax-events-cell01.us-east.aps.axp.amazon-adsystem.com	4
bijmry-dynamic-config-api.appsflyersdk.com	4
bijmry-skadsdk.appsflyersdk.com	4
smetrics.cnn.com	4
api-2-0.spot.im	4
libs.outbrain.com	4
aamt.nbcnews.com	4
adrta.com	4
i.w55c.net	4
data.cdnbasket.net	4
ssptkr-val.pubmnet.com	4
t.pubmatic.com	4
cnn.bounceexchange.com	4
gcdsdk.appsflyer.com	4
adx.g.doubleclick.net	4
cs.lkqd.net	4
bztl4-gcdsdk.appsflyersdk.com	4
com-quizlet-prod1.collector.snplow.net	4
sync.search.spotxchange.com	4
4rtlop-launches.appsflyersdk.com	4
pm.w55c.net	4
cnam4c-cdn-settings.appsflyersdk.com	4
vfw.amazon-adsystem.com	4
tr-us.adsmoloco.com	4

opps.taboola.com	4
us-u.openx.net	4
bijmry-launches.appsflyersdk.com	4
ek6rpv-gcdsdk.appsflyersdk.com	4
a2719.casalemedia.com	4
elgvhc-cdn-settings.appsflyersdk.com	4
tags.crowdctrl.net	4
ak.sail-horizon.com	4
events.bouncex.net	4
clzbnm.dynamic-report-api.appsflyersdk.com	4
ds.reson8.com	4
cnam4c-conversions.appsflyersdk.com	4
creatives.smadex.com	4
skadsdkless.appsflyer.com	4
analytics.google.com	4
pixel.rubiconproject.com	4
bztld4-dynamic-config-api.appsflyersdk.com	4
vqlbo5-launches.appsflyersdk.com	4
licensing.bitmovin.com	4
nbcu.demdex.net	4
traffic.outbrain.com	4
clzbnm.skadsdkless.appsflyersdk.com	4
snap.licdn.com	4
p.tvpixel.com	4
sw88.espn.com	4
vtrk.doubleverify.com	4
cdn.iads.unity3d.com	4
ch-trc-events.taboola.com	4
view.adjust.com	4

apex.go.sonobi.com	4
www-alv.google-analytics.com	4
cnam4c-dynamic-config-api.appsflyersdk.com	4
nbcu-d.openx.net	4
vi.ml314.com	4
o1118521.ingest.us.sentry.io	4
espn.hb-api.omtrdc.net	4
o-adq.mediation.unity3d.com	4
servicelayer.king.com	4
yield-manager.browsiprod.com	4
use2.smartadserver.com	4
s.go-mpulse.net	4
odb.outbrain.com	4
vqlbo5-register.appsflyersdk.com	4
registry.api.cnn.io	4
mv.outbrain.com	4
bztl4-conversions.appsflyersdk.com	4
imgsync-nje.pubmnet.com	4
dls2s.appsflyer.com	4
onetag-geo.s-onetag.com	4
cdn.prod.uidapi.com	4
vqlbo5-attr.appsflyersdk.com	4
static-content-1.smadex.com	4
www.i.cdn.cnn.com	4
widgetmonitor.outbrain.com	4
a5lmg2.dynamic-config-api.appsflyersdk.com	4
cookiesync.mparticle.com	4
adobedc.net.ssl.sc.omtrdc.net	4
clzbmn.gcdsdk.appsflyersdk.com	4

vqlbo5-skadsdk.appsflyersdk.com	4
secure.adnxs.com	4
dt.adsafeprotected.com	4
log.go.com	4
rtb0.doubleverify.com	4
cdn.browsiprod.com	4
jf8kqj-inapps.appsflyersdk.com	4
ek6rpv-dynamic-config-api.appsflyersdk.com	4
metered.urbanairship.com	4
static.criteo.net	4
ats.rlcdn.com	4
products.gobankingrates.com	4
clzbmn.launches.appsflyersdk.com	4
um.simpli.fi	4
aax-dtb-mobile-geo.amazon-adsystem.com	4
www.lightboxcdn.com	4
bea4.v.fwrm.net	4
nbcume.sc.omtrdc.net	4
sdk-04.moengage.com	4
jxkffn-dynamic-report-api.appsflyersdk.com	4
dmp.truoptik.com	4
jxkffn-cdn-settings.appsflyersdk.com	4
885e2dd94adb263c2321d2d0f3778d18523bce4a.ipv4.cws.conviva.com	4
eq97f.publishers.tremorhub.com	4
control.kochava.com	4
cnam4c-attr.appsflyersdk.com	4
scripts.webcontentassessor.com	4
i-sdk.mediation.unity3d.com	4
reachms.bfmio.com	4

ek6rpv-conversions.appsflyersdk.com	4
vqlbo5-cdn-settings.appsflyersdk.com	4
aa.quantummetric.com	2
espn.com.ssl.sc.omtrdc.net	2
0.datadog.pool.ntp.org	2
dart.l.doubleclick.net	2
idaas-ext.cph.liveintent.com	2
livepixel-production.blm.liveintent.com	2
doregtzf74bxccjgrbfmha4k5z24kqvk7nl7u74449d0b0befa31e2bsac.d.aa.online-metrix.net	2
ch-vip001.taboola.com	2
cws-sjc2-rdc2.conviva.com	2
jadserve.postrelease.com.akadns.net	2
gce-auction24-prd.unityads.unity3d.com	2
ssptkr-nje-paira.pubmnet.com	2
onprem-ipv4.cws.conviva.com	2
h-ebay.online-metrix.net	2
ingest.us-east-1.prod.skywave.jetstream.advertising.a2z.com	2
cnn.com.102.122.2o7.net	2
in-ftd-65.us5.vip.prod.criteo.com	2
1.datadog.pool.ntp.org	2
prodeng-istio-ingress.wunderkind.co	2
nbcnews.com.ssl.sc.omtrdc.net	2
cm-web-va6.cm.adobeprimetime.com	2
b.ns1p.net	2
h-doregtzf.online-metrix.net	2
ads-config.unityads.unity3d.com	2
analytics-alv.google.com	2
in-ftd-172.us5.vip.prod.criteo.com	2

nados-lb-iad.moatads.com	2
aa.online-metrix.net	2
global.px.quantserve.com	2
pixel-us-east.rubiconproject.net.akadns.net	2
bifrost-app-sdk-us-east-1-kaas-blue.sre.nielsen.com	2
us-vip001.taboola.com	2
aws-api.sail-personalize.com	2
in-ftd-103.us5.vip.prod.criteo.com	2
nike.com.ssl.sc.omtrdc.net	2
beacon-nf.rubiconproject.net.akadns.net	2
linode-api.us-east.proximic.com	2
static.bounceexchange.com	2
e7876.dscg.akamaiedge.net	2
fastly-tls12-insights-collector.newrelic.com	2
use-bid-openpath-1.adsrvr.org	2
sdk.iad-06.braze.com.cdn.cloudflare.net	2
prebid-a.rubiconproject.net.akadns.net	2
idx.cph.liveintent.com	2
expedia.quantummetric.com	2
iad-2-apex.go.sonobi.com	2
t-nje1.pubmatic.com	2
nginx-ingress.wunderkind.co	2
3.datadog.pool.ntp.org	2
dsohp.litix.io	2
fastly-mobile-collector.newrelic.com	2
idaas6.cph.liveintent.com	2
Total	3181

Total Tracker TCP Connections

Tracker As Source	Tracker As Destination	Total Connections
143029	67719	210748

Samsung Galaxy

Domain Tracker Lookups

Domain	DNS Queries
app-measurement.com	28
firebase logging-pa.googleapis.com	20
dpm.demdex.net	18
googleads.g.doubleclick.net	18
api2.branch.io	16
firebase logging.googleapis.com	16
tpc.google syndication.com	16
cdn.branch.io	16
www.google ads services.com	15
pubads.g.doubleclick.net	14
pagead2.google syndication.com	14
mobile-data.onetrust.io	12
s.amazon-adsystem.com	12
securepubads.g.doubleclick.net	12
combine.urbanairship.com	10
remote-data.urbanairship.com	10
c.amazon-adsystem.com	10
www.google tag services.com	10
www.google tag manager.com	10
mobile-collector.newrelic.com	10
tps.doubleverify.com	10
cdn.taboola.com	9

beacons.gvt2.com	8
sdk.iad-05.braze.com	8
trc.taboola.com	8
api.apptentive.com	8
ib.adnxs.com	8
bam.nr-data.net	8
ssum-sec.casalemedia.com	8
www.google-analytics.com	8
adx.g.doubleclick.net	8
sb.scorecardresearch.com	8
cdn.optimizely.com	8
device-api.urbanairship.com	8
js-agent.newrelic.com	7
ingest.quantummetric.com	6
beacon.taboola.com	6
ping.chartbeat.net	6
cdn.doubleverify.com	6
ch-vid-events.taboola.com	6
token.rubiconproject.com	6
js-sec.indexww.com	6
fastlane.rubiconproject.com	6
imprchmp.taboola.com	6
s.go-mpulse.net	6
tlx.3lift.com	6
eus.rubiconproject.com	6
rl.quantummetric.com	6
grid.bidswitch.net	6
cdn.indexww.com	6
sync.intentiq.com	6
aax.amazon-adsystem.com	6
htlb.casalemedia.com	6
cdn-gl.imrworldwide.com	6
csi.gstatic.com	6
app-analytics-services.com	6

mads.amazon-adsystem.com	6
logx.optimizely.com	5
vision.fn-pz.com	4
hopenbid.pubmatic.com	4
analytics.nike.com	4
bat.bing.com	4
analytics.tiktok.com	4
browser-intake-datadoghq.com	4
pagead2.googleadservices.com	4
vidstat.taboola.com	4
g2.gumgum.com	4
logs.ads.vungle.com	4
cdn.quantummetric.com	4
krk2.kargo.com	4
px.ads.linkedin.com	4
usasync01.admantx.com	4
img.riskified.com	4
analytics.google.com	4
images.taboola.com	4
api.iterable.com	4
static.hotjar.com	4
ch-trc-events.taboola.com	4
cm.adgrx.com	4
gum.criteo.com	4
sdk-api-v1.singular.net	4
o-sdk.mediation.unity3d.com	4
targeting.unrulymedia.com	4
ml314.com	4
ups.analytics.yahoo.com	4
psb.taboola.com	4
ads.pubmatic.com	4
t.adx.opera.com	4
nativesdks.mparticle.com	4
c.go-mpulse.net	4

id5-sync.com	4
sdk.iad-01.braze.com	4
scripts.webcontentassessor.com	4
k3c2rk-inapps.appsflyersdk.com	4
eb2.3lift.com	4
cm.g.doubleclick.net	4
warp.media.net	4
cds.taboola.com	4
sdk.iad-06.braze.com	4
ads.rubiconproject.com	4
script.hotjar.com	4
prebid-a.rubiconproject.com	4
beacons.gcp.gvt2.com	4
bcp.crowdctrl.net	4
identity.mparticle.com	4
network.bazaarvoice.com	4
a-z4ngy.data.emb-api.com	4
trk.pinterest.com	4
metrics.roblox.com	4
idsync.rlcdn.com	4
sync.bfmio.com	4
stats.g.doubleclick.net	4
cvhcs0-launches.appsflyersdk.com	4
p.rfihub.com	4
reachms.bfmio.com	4
acdn.adnxs.com	4
sdk.iad-03.braze.com	4
accounts.doubleclick.net	4
cdn-f.adsmoloco.com	4
impression-east.liftoff.io	4
bh.contextweb.com	4
entitlements.jwplayer.com	4
prg.smartadserver.com	4
ad.doubleclick.net	4

h64.online-metrix.net	4
i.liadm.com	4
config.aps.amazon-adsystem.com	4
sync.taboola.com	4
jadservice.postrelease.com	2
aa.online-metrix.net	2
cdn-settings.segment.com	2
secure.adnxs.com	2
pjgiyz-conversions.appsflyersdk.com	2
control.kochava.com	2
cms.analytics.yahoo.com	2
s.tribalfusion.com	2
tagan.adlightning.com	2
ow.pubmatic.com	2
httpkafka.unityads.unity3d.com	2
otpi0g-cdn-settings.appsflyersdk.com	2
o13855.ingest.sentry.io	2
k3c2rk-gcdsdk.appsflyersdk.com	2
opps.taboola.com	2
app-analytics-v2.snapchat.com	2
aax-events-cell01-cf.us-east.aps.axp.amazon-adsystem.com	2
a.tribalfusion.com	2
creativecdn.com	2
ats.rlcdn.com	2
885e2dd94adb263c2321d2d0f3778d18523bce4a.cws.conviva.com	2
oa.openxcdn.net	2
metered.urbanairship.com	2
pi6zts-cdn-settings.appsflyersdk.com	2
pjgiyz-gcdsdk.appsflyersdk.com	2
srv.pixel.parsely.com	2
cdn.iads.unity3d.com	2
885e2dd94adb263c2321d2d0f3778d18523bce4a.ipv6.cws.conviva.com	2
a-j45jo.data.emb-api.com	2
dsum.casalemedia.com	2

rest.locuslabs.com	2
dd.nytimes.com	2
cdn.adnxs.com	2
23q9j8-conversions.appsflyersdk.com	2
capi.connatix.com	2
um.simpli.fi	2
log.go.com	2
c.bing.com	2
cm.adform.net	2
jarlio-gcdsdk.appsflyersdk.com	2
cs.krushmedia.com	2
dsp-cookie.adfarm1.adition.com	2
fkvufv-conversions.appsflyersdk.com	2
0.datadog.pool.ntp.org	2
simage4.pubmatic.com	2
images.outbrainimg.com	2
ssb-use2.smartadserver.com	2
init.supersonicads.com	2
dis.criteo.com	2
infoevent.startappservice.com	2
k3c2rk-cdn-settings.appsflyersdk.com	2
google-bidout-d.openx.net	2
b.sharethrough.com	2
u.openx.net	2
fkvufv-cdn-settings.appsflyersdk.com	2
pangolin16.isnssdk.com	2
prebid-server.rubiconproject.com	2
choices.trustarc.com	2
smetrics.cnn.com	2
thrtle.com	2
mb.moatads.com	2
config.ads.vungle.com	2
tnvjqk-cdn-settings.appsflyersdk.com	2
image4.pubmatic.com	2

c1.adform.net	2
aax-ott-c2s.amazon-adsystem.com	2
otpi0g-pia.appsflyersdk.com	2
braze-images.com	2
ads.yieldmo.com	2
static.cloudflareinsights.com	2
prd.jwpltx.com	2
jarlio-pia.appsflyersdk.com	2
csync.loopme.me	2
click.liftoff.io	2
rtb-csync.smartadserver.com	2
dcdn.adnxs.com	2
a-n5s7n.data.emb-api.com	2
trackdownload.startappservice.com	2
d.turn.com	2
ts.amazon-adsystem.com	2
32200.content.swrve.com	2
zugkc4.register.appsflyersdk.com	2
udm.scorecardresearch.com	2
mv.outbrain.com	2
conversions.appsflyer.com	2
sync.crowdctrl.net	2
dlsdk.appsflyer.com	2
sync-t1.taboola.com	2
api-sdk.datadome.co	2
static.criteo.net	2
us-u.openx.net	2
tr-us.adsmoloco.com	2
fei.pro-market.net	2
id.rlcdn.com	2
vidanalytics.taboola.com	2
adsmetadata.startappservice.com	2
fkvufv-inapps.appsflyersdk.com	2
usersync.gumgum.com	2

smetrics.foxnews.com	2
webview.unityads.unity3d.com	2
zugkc4.cdn-settings.appsflyersdk.com	2
www.srmdata-us.com	2
b1sync.zemanta.com	2
sdk.iad-04.braze.com	2
23q9j8-gcdsdk.appsflyersdk.com	2
d.agkn.com	2
log.outbrainimg.com	2
otpi0g-gcdsdk.appsflyersdk.com	2
grid-bidder.criteo.com	2
fundingchoicesmessages.google.com	2
pr-bh.ybp.yahoo.com	2
23q9j8-cdn-settings.appsflyersdk.com	2
espndotcom.tt.omtrdc.net	2
23q9j8-launches.appsflyersdk.com	2
als-svc.nytimes.com	2
zion.api.cnn.io	2
zugkc4.inapps.appsflyersdk.com	2
fmrqkz-cdn-settings.appsflyersdk.com	2
jarlio-launches.appsflyersdk.com	2
sync.srv.stackadapt.com	2
match.prod.bidr.io	2
americanairlines.sc.omtrdc.net	2
image6.pubmatic.com	2
cms.quantserve.com	2
r.casalemedia.com	2
ums.acuityplatform.com	2
log.espn.com	2
ae.iads.unity3d.com	2
doregtzf22re5thczkopq7jsp3kpyb3nr5ucgowma363061845f339d9sac.d.aa.online-metrix.net	2
sync.smartadserver.com	2
nbcume.sc.omtrdc.net	2

sw88.espn.com	2
foxnews.demdex.net	2
tnvjqk-conversions.appsflyersdk.com	2
jarlio-register.appsflyersdk.com	2
c2shb.pubgw.yahoo.com	2
nbcu-d.openx.net	2
configv2.unityads.unity3d.com	2
32200.identity.swrve.com	2
config2.mparticle.com	2
pixel.rubiconproject.com	2
adservice.google.com	2
otpi0g-inapps.appsflyersdk.com	2
cdn-lb.vungle.com	2
gcdsdk.appsflyer.com	2
sync-tm.everesttech.net	2
simage2.pubmatic.com	2
zugkc4.conversions.appsflyersdk.com	2
o22381.ingest.us.sentry.io	2
zugkc4.dlsdk.appsflyersdk.com	2
cvhcs0-inapps.appsflyersdk.com	2
ad.mrtnsvr.com	2
hilton.data.adobedc.net	2
pandg.tapad.com	2
rtb.adentifi.com	2
beacon.lynx.cognitivlabs.com	2
cdn.prod.uidapi.com	2
fmrqkz-gcdsdk.appsflyersdk.com	2
ap.lijit.com	2
gw.geoedge.be	2
c.riskified.com	2
rtb.openx.net	2
cvhcs0-cdn-settings.appsflyersdk.com	2
app.adjust.com	2
rumcdn.geoedge.be	2

pixel.tapad.com	2
tnvjqk-register.appsflyersdk.com	2
mwzeom.zeotap.com	2
cdn.cookieclaw.org	2
pjgiyz-launches.appsflyersdk.com	2
sync.richaudience.com	2
sdk-04.moengage.com	2
cvhcs0-gcdsdk.appsflyersdk.com	2
widgetmonitor.outbrain.com	2
ad.turn.com	2
s2s.singular.net	2
b1sync.outbrain.com	2
fmrqkz-conversions.appsflyersdk.com	2
cdn.brandmetrics.com	2
loadm.exelator.com	2
foxnews.hb.omtrdc.net	2
k3c2rk-register.appsflyersdk.com	2
hbx.media.net	2
aax-dtb-mobile-geo.amazon-adsystem.com	2
pacc6p-cdn-settings.appsflyersdk.com	2
sync.ipredictive.com	2
libs.outbrain.com	2
sync.mathtag.com	2
fkvufv-register.appsflyersdk.com	2
otpi0g-conversions.appsflyersdk.com	2
pixel.onaudience.com	2
fkvufv-dlsdk.appsflyersdk.com	2
oajs.openx.net	2
tnvjqk-gcdsdk.appsflyersdk.com	2
usllpic0qt53n4i4bzep7qxznku2c3k2urjxuzhc9da7c94c85e70111sac.d.aa.online-matrix.net	2
tr.snapchat.com	2
com-quizlet-prod1.collector.snplow.net	2
taboola-d.openx.net	2

kvinit-prod.api.kochava.com	2
match.deepintent.com	2
ads.stickyadstv.com	2
match.adsrvr.org	2
prebid.media.net	2
ad.crwdcntrl.net	2
23q9j8-dlsdk.appsflyersdk.com	2
ssbsync.smartadserver.com	2
pippio.com	2
pjgiyz-attr.appsflyersdk.com	2
cs.media.net	2
dmp.brand-display.com	2
prebid.adnxs.com	2
pi6zts-gcdsdk.appsflyersdk.com	2
us-wf.taboola.com	2
static.chartbeat.com	2
otpi0g-launches.appsflyersdk.com	2
32200.api.swrve.com	2
ch-wf.taboola.com	2
a2724.casalemedia.com	2
api.mixpanel.com	2
pjgiyz-cdn-settings.appsflyersdk.com	2
image8.pubmatic.com	2
nbcume.hb-api.omtrdc.net	2
otpi0g-dlsdk.appsflyersdk.com	2
app.adjust.net.in	2
match.sharethrough.com	2
inapps.appsflyer.com	2
885e2dd94adb263c2321d2d0f3778d18523bce4a.ipv4.cws.conviva.com	2
jarlio-cdn-settings.appsflyersdk.com	2
meter-svc.nytimes.com	2
o1118521.ingest.us.sentry.io	2
nytimes-d.openx.net	2
www.srmdata.com	2

pub.doubleverify.com	2
ps.eyeota.net	2
dsum-sec.casalemedia.com	2
cdn.liftoff-creatives.io	2
odr.mookie1.com	2
cvhcs0-conversions.appsflyersdk.com	2
jarlio-inapps.appsflyersdk.com	2
a.et.nytimes.com	2
odb.outbrain.com	2
tags.crowdctrl.net	2
video-ads-module.ad-tech.nbcuni.com	2
x.bidswitch.net	2
z.moatads.com	2
aa.agkn.com	2
collector.cdp.cnn.com	2
dmp.truoptik.com	2
k3c2rk-conversions.appsflyersdk.com	2
videos.taboola.com	2
vtrk.doubleverify.com	2
secure-assets.rubiconproject.com	2
live.rezync.com	2
dls2s.appsflyer.com	2
info.startappservice.com	2
pixel.advertising.com	2
aax-eu.amazon-adsystem.com	2
ce.lijit.com	2
jarlio-conversions.appsflyersdk.com	2
pxl.connexity.net	2
pi6zts-conversions.appsflyersdk.com	2
www.datadoghq-browser-agent.com	2
cdn.id5-sync.com	2
image2.pubmatic.com	2
servicelayer.king.com	2
o293668.ingest.us.sentry.io	2

nym2-ib.adnxs.com	2
cdn-settings.appsflyersdk.com	2
pixel-sync.sitescout.com	2
notify.bugsnap.com	2
ssl.google-analytics.com	2
Total	1368

Total Tracker TCP Connections

Tracker As Source	Tracker As Destination	Total Connections
99374	72093	171467

Appendix A: DREAD Overview

Damage Criteria	Critical 40-50	Severe 25-39	Moderate 11-24	Low 1-10
Damage Potential If threat occurs, how much damage will be caused?	Attacker has full system access and ability to execute root commands	Attack has non-privileged user access and sensitive information leakage	Potential for information leakage and Denial of Service (DoS)	Potential for trivial information leakage
Reproducibility How easy is it to reproduce the threat?	The attack can be reproduced every time	The attack can be reproduced frequently	The attack can be reproduced only during a certain window	The attack is very difficult to reproduce even with knowledge of the breach
Exploitability What is needed to exploit this threat?	Automated tools exist for an attack and programming skills are not needed	A novice programmer can execute an attack in a short time	A skilled programmer can execute an attack and a novice can emulate it	The attack requires a skilled hacker with an in-depth understanding
Affected Users How many users will be affected?	All users can be affected, and default configurations are in use	Most users can be affected, and common configurations are in use	Some users can be affected, and non-standard configurations are in use	A small percentage of users can be affected
Discoverability How easily can the threat be discovered?	The threat can be identified with an automated scanning tool	The threat is published or found in commonly used features	The threat is rarely found or encountered	The threat is obscure and unlikely to be discovered

Table 8: DREAD Score Overview

Appendix B: Targets

Tested Phones

- Apple iPhone
- Samsung Galaxy
- UpPhone

Tested Mobile Apps

American Airlines	Bloomberg	Booking.com	Bumble	Camscanner
Candy Crush	Canva	CNN	Duolingo	Ebay
ESPN	Etsy	Expedia	Foxnews	Hilton
Kayak	Marriot Bonvoy	NBC News	Nike	NY Times
Outlook	Pinterest	Quizlet	Roblox	Shein
Snapchat	Southwest Airlines	Spotify	The weather channel	Tripadvisor
United Airlines	Words with friends	Yelp		