

# Mobile Handset Privacy: Measuring The Data iOS and Android Send to Apple And Google

## ADDITIONAL MATERIAL: CONTENT OF NETWORK CONNECTIONS

Note that to save space HTTP headers and parameters with uninteresting content are not shown. Probable persistent identifiers are highlighted in bold.

## I. IOS APPLE CONNECTIONS

### A. Connections On Fresh Phone Startup & User Not Logged Into Apple Account

#### Summary:

- 1) Startup cannot proceed without a network connection
- 2) Device hardware serial number is sent to Apple via header X-Apple-I-SRL-NO
- 3) Device Id is sent via header X-Mme-Device-Id, this value persists across a factory reset.
- 4) Device SEID (Secure Element ID) is sent via header x-apple-seid, this value persists across a factory reset.
- 5) Local IP address of device (i.e. not of the gateway, but of the device itself) is sent in POST request to /lcdn-locator.apple.com
- 6) A cookie is set by xp.apple.com and then echoed in subsequent requests to client-api.itunes.apple.com.
- 7) During the startup process less than 1KB of data is sent to Apple servers in POST requests (data passed via URL parameters and request headers is additional to this) and 3.2GB of data are received.
- 8) A substantial amount of content is downloaded (likely updates to installed system apps).

#### Connection details:

```
GET https://gsa.apple.com/grandslam/GsService2/lookup
Headers
  X-MME-Country: IE
  X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <
com.apple.akd/1.0 (com.apple.akd/1.0)>
  X-Mme-Device-Id: 7c2694081d97b76276733f2dbf49871412dc5bc5
Persistent Device
Id
  User-Agent: akd/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
  X-Apple-I-Locale: en_IE
<<<< HTTP 200, 11.48KB
GET https://init.push.apple.com/bag?v=1&c=Wifi
Headers
  User-Agent: iPhone10,4/13.6.1 (17G80)
<<<< HTTP 200, 3.55KB
POST https://gsa.apple.com/grandslam/MidService/startMachineProvisioning
Headers
  X-Apple-Client-App-Name: Setup
  X-Apple-I-SRL-NO: C8PVCB1HJC67 Handset hardware serial
number
  X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <
com.apple.akd/1.0 (com.apple.akd/1.0)>
  X-Mme-Device-Id: 7c2694081d97b76276733f2dbf49871412dc5bc5
Persistent Device
Id
  User-Agent: akd/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
POST body
<...>
<<<< HTTP 200, 1022.00B
POST https://gsa.apple.com/grandslam/MidService/
finishMachineProvisioning
Headers
  X-Apple-Client-App-Name: Setup
  X-Apple-I-SRL-NO: C8PVCB1HJC67 Handset hardware serial
number
  X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <
com.apple.akd/1.0 (com.apple.akd/1.0)>
```

```
X-Mme-Device-Id: 7c2694081d97b76276733f2dbf49871412dc5bc5
Persistent Device
Id
  User-Agent: akd/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
POST body
<?xml version="1.0" encoding="UTF-8"?>
<...><key>cpim</key>
<string>AAAABcL...HtkoHY</string>
<...></plist>
The cpim value persists across a factory reset.

<<<< HTTP 200, 1.09KB
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_SecExperimentAssets/
com_apple_MobileAsset_SecExperimentAssets.xml
Headers
  User-Agent: $%7BPRODUCT_NAME%7D/%$%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 3.09KB
GET https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en_IE
Headers
  x-apple-i-md-rinfo: 17106176 Anisette routingInfo
  x-apple-device-model: iPhone10,4
  x-apple-i-md-m: 5ekJNohUcJUP1EF...jMp Anisette machineID
  x-apple-i-md: AAAABQAAA...RFG+AAAAAw== Anisette One-time
Password
  user-agent: atc/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80
(6; dt:160)
  x-apple-connection-type: WiFi
  x-apple-i-locale: en_IE
<<<< HTTP 200, 240.58KB
POST https://lcdn-locator.apple.com/lcdn/locate
Headers
  User-Agent: AssetCacheLocatorService/111 CFNetwork/1128.0.1
Darwin/19.6.0
  X-Protocol-Version: 3
POST body
{"locator-tag":"#eefc633e","local-addresses":["192.168.2.6"],"ranked-
results":true,"locator-software":{"build":"17G80","type":"system","name":"
iPhone OS","version":"13.6.1"},{"id":"com.apple.AssetCacheLocatorService
","executable":"AssetCacheLocatorService","type":"bundle","name":"
AssetCacheLocatorService","version":"111"}]}
<<<< HTTP 404, 15.00B
GET http://updates-http.cdn-apple.com/2019/ios/061-31438-20191017-
BF5FF55A-F131-11E9-975B-00FCAC750694/
com_apple_MobileAsset_SecExperimentAssets/
d3ab95a975f264d2a21f718061622cb5846df4fe.zip
Headers
  User-Agent: $%7BPRODUCT_NAME%7D/%$%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 1.36KB
GET https://cl3.apple.com/3/v2/cldavl.avl.gz
Headers
  user-agent: locationd/2394.0.33 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 12.68KB
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_VoiceTriggerAssets/
com_apple_MobileAsset_VoiceTriggerAssets.xml
Headers
  User-Agent: $%7BPRODUCT_NAME%7D/%$%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 444.57KB
GET http://updates-http.cdn-apple.com/2020/ios/061-84158-20200316-7
D936658-67CD-11EA-B893-BCD23EAB7795/
com_apple_MobileAsset_VoiceTriggerAssets/8
ef01ad4c2ba4bb07c3a34b5e873800a0b913403.zip
Headers
  User-Agent: $%7BPRODUCT_NAME%7D/%$%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 10.72MB
GET https://configuration.apple.com/configurations/internetservices/bt/bcw.v
plist
Headers
  User-Agent: locationd/2394.0.33 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 231.00B
GET https://configuration.apple.com/configurations/internetservices/bt/bcw.
plist.gz
```

## Headers

```
User-Agent: locationd/2394.0.33 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 5.11KB
GET https://mesu.apple.com/assets/com_apple_MobileAsset_HomeKit/
com_apple_MobileAsset_HomeKit.xml
```

## Headers

```
User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 3.07KB
```

```
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_SharingDeviceAssets/
com_apple_MobileAsset_SharingDeviceAssets.xml
```

## Headers

```
User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 281.25KB
```

```
GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&
deviceClass=iPhone&product=com.apple.appstored&productVersion=1.0&
profile=appstored&profileVersion=1&format=json
```

## Headers

```
x-apple-client-application: com.apple.appstored
user-agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/
t8015 build/17G80 (6; dt:160) AMS/1
<<<< HTTP 200, 19.17KB
```

```
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_PKITrustSupplementals/
com_apple_MobileAsset_PKITrustSupplementals.xml
```

## Headers

```
User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 3.09KB
```

```
POST https://humb.apple.com/humbug/bag
```

## Headers

```
User-Agent: iOS Device Activator (MobileActivation-489.140.1) -
bluetoothd
POST body
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<...> <key>RKCertification</key>
```

```
<data>
```

```
MIID4QIBA jCCA9oEIP4C3sqQP1...WTg==
```

```
</data>
```

```
<key>RKProperties</key>
```

```
<data>
```

```
PD94bWwgdmVyc2lvbj0iMS4wIiBlb...Pgo=
```

```
</data>
```

```
<key>RKPropertiesSignature</key>
```

```
<data>
```

```
MEUCIHRK1hTQ7/BWIVk56SJ...SULdY=
```

```
</data>
```

```
</dict>
```

```
</plist>
```

```
<<<< HTTP 200, 1.75KB
```

```
The RKProperties key data is base64 encoded and decodes to the following:
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<DOCTYPE plist PUBLIC "-//Apple/DTD PLIST 1.0/EN" "http://www.
apple.com/DTDs/PropertyList-1.0.dtd">
```

```
<plist version="1.0">
```

```
<dict>
```

```
<key>AppID</key>
```

```
<string>com.apple.bluetoothd</string>
```

```
<key>CACert</key>
```

```
<integer>0</integer>
```

```
<key>ChipID</key>
```

```
<integer>32789</integer>
```

```
<key>OIDSToInclude</key>
```

```
<array>
```

```
<string>1.2.840.113635.100.8.4</string>
```

```
<string>1.2.840.113635.100.8.5</string>
```

```
<string>1.2.840.113635.100.8.7</string>
```

```
</array>
```

```
<key>RKCertificationPub</key>
```

```
<data>
```

```
BOWsErH47WpQ8IhmrfIA9+wPIZP+
```

```
mHCWBUIRPEOnOuvZvYe3VwTPXxYkgUSoJZazlbw
```

```
Yd+Tj9l3XwIquQ6MQA=
```

```
</data>
```

```
<key>SIKPub</key>
```

```
<data>
BB5zJjWT/28fJbLQtYlJTBhEhHBQVVgu8Udfg4F2ASX+
zMCQrtYpgDtUEe2Kw5TA47W6
vRnmUM01pSm3yec13A=
```

```
</data>
```

```
<key>SerialNumber</key>
```

```
<string>C8PVCB1HJC67</string> // Handset hardware serial
```

```
number
```

```
<key>UniqueChipID</key>
```

```
<integer>2577607982549050</integer> // Not the handset ECID
```

```
<key>Validity</key>
```

```
<integer>525600</integer>
```

```
<key>scrtAttestation</key>
```

```
<integer>0</integer>
```

```
</dict>
```

```
</plist>
```

```
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_PKITrustSupplementals/
com_apple_MobileAsset_PKITrustSupplementals.xml
```

## Headers

```
User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 304, 0.00B
```

```
GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&
deviceClass=iPhone&product=com.apple.healthappd&productVersion=1.0&
profile=AMSLookup&profileVersion=1&format=json&storefront
=143449-2,29
```

## Headers

```
x-apple-client-application: com.apple.healthappd
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/
t8015 build/17G80 (6; dt:160) AMS/1
```

```
x-apple-store-front: 143449-2,29
```

```
<<<< HTTP 200, 9.30KB
```

```
GET http://updates-http.cdn-apple.com/2020/patches/001-55241/7C679F5A
-4015-49F6-B3A2-44F59D200B8A/
```

```
com_apple_MobileAsset_PKITrustSupplementals/6
a5b8ee3299a8e4a956ef01d977791a393f68c45.zip
```

## Headers

```
User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 20.53KB
```

```
GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&
deviceClass=iPhone&product=com.apple.appstored&productVersion=1.0&
profile=appstored&profileVersion=1&format=json&storefront=143449-2,29
```

## Headers

```
x-apple-client-application: com.apple.appstored
user-agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/
t8015 build/17G80 (6; dt:160) AMS/1
```

```
x-apple-store-front: 143449-2,29
```

```
<<<< HTTP 200, 18.86KB
```

```
GET https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en_IE
```

## Headers

```
x-apple-i-md-rinfo: 17106176
```

```
x-apple-i-locale: en_IE
```

```
x-apple-device-model: iPhone10,4
```

```
x-apple-store-front: 143449-2,29
```

```
x-apple-i-md-m: 5ekJNohUcJUP1EFYFr...ljk6EljMp
```

```
x-apple-i-md: AAAABQAAABC1o...XIIAAAAAw==
```

```
user-agent: atc/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80
```

```
(6; dt:160)
```

```
x-apple-connection-type: WiFi
```

```
<<<< HTTP 200, 234.68KB
```

```
GET https://gateway.icloud.com/enservice/v1/config
```

## Headers

```
x-apple-sign3: MEYCIQCeJP+2SKiXIU40FLnv...SUIT
```

```
x-apple-ct-region-identifier: 272
```

```
x-apple-sign1:
```

```
MHCzCCAIWgAwIBAgIGAXYPwPS+MAo...FISHA==
```

```
user-agent: bluetoothd (unknown version) CFNetwork/1128.0.1 Darwin
/19.6.0
```

```
x-apple-sign2: zIFs+zp64Ccb2cB...ryPSS6MT33LrwXRo=
```

```
<<<< HTTP 200, 82.00B
```

```
GET https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en_IE
```

## Headers

```
x-apple-connection-type: WiFi
```

```
user-agent: itunesstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015
```

```

build/17G80 (6; dt:160)
  x-apple-store-front: 143449-2,29
  cookie:
<<<< HTTP 200, 235.23KB
GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=1463884356&p=lookup&version=2
Headers
  x-apple-client-application: com.apple.healthappd
  user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/
t8015 build/17G80 (6; dt:160) AMS/1
  x-apple-store-front: 143449-2,29
  cookie: X-JS-TIMESTAMP=1606582073;
X-JS-SP-TOKEN=5yavQLImUpyWmbExmpjjYw==
<<<< HTTP 200, 125.00B
GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&
deviceClass=iPhone&product=com.apple.watchlist&productVersion=1.0&
profile=TVApp&profileVersion=1&format=json&storefront=143449-2,29
Headers
  x-apple-client-application: com.apple.watchlist
  user-agent: com.apple.watchlist/1.0 iOS/13.6.1 model/iPhone10,4 hwp/
t8015 build/17G80 (6; dt:160) AMS/1
  x-apple-store-front: 143449-2,29
<<<< HTTP 200, 15.04KB
GET https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en_IE
Headers
  x-apple-connection-type: WiFi
  user-agent: storebookkeeperpd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/
t8015 build/17G80 (6; dt:160)
  x-apple-store-front: 143449-2,29
  cookie:
<<<< HTTP 200, 234.68KB
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_AppletTranslationLibraryAssets/
com_apple_MobileAsset_AppletTranslationLibraryAssets.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 4.28KB
POST https://humb.apple.com/humbug/baa
Headers
  User-Agent: iOS Device Activator (MobileActivation-489.140.1) -
bluetoothd
POST body
<?xml version="1.0" encoding="UTF-8"?>
<...> <key>RKCertification</key>
  <data>
MIID4gIBAJCCA9sEIP4C3sqQtP1S2hw...knrY=
  </data>
  <key>RKProperties</key>
  <data>
PD94bWwgdmVyc2lvbj0iMS4wIiBlbm...XN0Pgo=
  </data>
  <key>RKPropertiesSignature</key>
  <data>
MEUCIQChpxLNsGcekdbAuC...8I402A=
  </data>
</dict>
</plist>

<<<< HTTP 200, 1.75KB
GET https://xp.apple.com/register
Headers
  X-Apple-I-MD-RINFO: 17106176
  X-Apple-I-Locale: en_IE
  X-Apple-Store-Front: 143449-2,29
  X-Apple-Partner: origin.0
  X-Apple-Client-Versions: iBooks/4444; iTunesU/??; GameCenter/??;
Podcasts/1440.4
  X-Apple-I-MD-M:
5ekJNohUcJUPIEFYFrRt5P+FVFG...+0J7ljk6EljMp
  X-Apple-I-MD: AAAABQAAABC1o3...VqXIIAAAAAw==
  User-Agent: itunesstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015
build/17G80 (6; dt:160)
  X-Apple-Connection-Type: WiFi
<<<< HTTP 200, 383.00B
X-Apple-Set-Cookie: xp_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; Path=/;
Domain=.apple.com; Expires=Thu, 27-May-2021 16:47:54 GMT; Max-
Age=15552000; Secure, xp_aci=4zVKGGEYEHMUY9VPY9BCelj; Path
=/; Domain=xp.apple.com; Expires=Thu, 27-May-2021 16:47:54 GMT;
Max-Age=15552000; Secure, xp_ab=1#Jv0scgz+-2+7KGQkMc1#
yNFpB6B+-2+lrDZsLr0; Path=/; Domain=.apple.com; Expires=Thu, 27-
May-2021 16:47:54 GMT; Max-Age=15552000; Secure
GET https://help.apple.com/ios/tips/13/iphone/en/Art/C_WhatsNew-
Opaque@2x'iphone.png
Headers
  User-Agent: tipsd/533.5 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 13.14KB
GET https://gateway.icloud.com/enservice/v1/config
Headers
  x-apple-sign3: MEYCIQCuvVkLjYHMD3Qv4Rbz0aoI4rz+TbInGk+9
JT7YXMQsZglhAMdvgvVIVkVj7TG+EW/5aYIQNZSu+wvy7u++
GLVoj3Lh
  x-apple-ct-region-identifier: 272
  x-apple-sign1: MIICsDCCAIWgAwIBAgIGAXYPw0jMAoGCCqGS...
HnNQ=
  user-agent: bluetoothd (unknown version) CFNetwork/1128.0.1 Darwin
/19.6.0
  x-apple-sign2: zIFs+zp64Ccb2cBUYdQ3okV7U+4
ryPSS6MT33LrwXRo=
<<<< HTTP 200, 82.00B
The sign2 value persists across a factory reset.

GET https://mesu.apple.com/assets/
com_apple_MobileAsset_TopLevelDomainDafsa/
com_apple_MobileAsset_TopLevelDomainDafsa.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 3.00KB
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_EmbeddedSpeech/
com_apple_MobileAsset_EmbeddedSpeech.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 69.11KB
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_CarExperienceAssets/
com_apple_MobileAsset_CarExperienceAssets.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 3.22KB
GET http://updates-http.cdn-apple.com/2020/mobileassets/001-43954/
D7A53F17-AC75-4493-9AFE-43DAF55DFFDD/
com_apple_MobileAsset_AppletTranslationLibraryAssets/7
bd5d836989f4f5889e99c61255a529e6a9c7085.zip
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 1.78KB
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_MacInTalkVoiceAssets/
com_apple_MobileAsset_MacInTalkVoiceAssets.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 4.38KB
GET http://updates-http.cdn-apple.com/2018/ios/091-75843-20180806-
F48C1548-95EC-11E8-8315-3D690A23BAD0/
com_apple_MobileAsset_TopLevelDomainDafsa/
d9cee84b64c1186bdb82c4b8c1c1ebb4c455debe.zip
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 42.79KB
GET https://mesu.apple.com/assets/com_apple_MobileAsset_Health/
com_apple_MobileAsset_Health.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 215.14KB
GET http://updates-http.cdn-apple.com/2019/ios/061-66572-20200102-
E0737FBE-37CC-11EA-8E3D-4AA0E938D783/

```

com\_apple\_MobileAsset\_Health/  
ece1e786c577cc30055028594c153a9f61a63eb5.zip

Headers

User-Agent: %7BPRODUCT\_NAME%7D/%%28  
CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
<<<< HTTP 200, 5.40KB

GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=1209262925,...341232718,946099227&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582082; X-JS-SP-TOKEN=zuRqjG0Bfbdk4GE1kvs06w==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 26.63KB

GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=542701020,...855275752&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582082; X-JS-SP-TOKEN=VOJ8wxSq6YLMWI+RUJ01gg==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 21.84KB

GET http://updates-http.cdn-apple.com/2019/ios/061-17262-20191017-BF5FEDB2-F131-11E9-A145-01FCAC750694/  
com\_apple\_MobileAsset\_CarExperienceAssets/  
dbd4466d24b0849de4d69d58ae772583b7cfabc1.zip

Headers

User-Agent: %7BPRODUCT\_NAME%7D/%%28  
CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
<<<< HTTP 200, 3.25KB

GET https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_VoiceServicesVocalizerVoice/  
com\_apple\_MobileAsset\_VoiceServicesVocalizerVoice.xml

Headers

User-Agent: %7BPRODUCT\_NAME%7D/%%28  
CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
<<<< HTTP 200, 197.52KB

GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=542701020,...566815525&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582083; X-JS-SP-TOKEN=WBIWfvdajnsnfk4/EUSyA==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 19.22KB

GET https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_VoiceServices\_GryphonVoice/  
com\_apple\_MobileAsset\_VoiceServices\_GryphonVoice.xml

Headers

User-Agent: %7BPRODUCT\_NAME%7D/%%28  
CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
<<<< HTTP 200, 203.07KB

GET https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_VoiceServices\_CustomVoice/  
com\_apple\_MobileAsset\_VoiceServices\_CustomVoice.xml

Headers

User-Agent: %7BPRODUCT\_NAME%7D/%%28  
CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
<<<< HTTP 200, 93.77KB

GET https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_VoiceServices\_CombinedVocalizerVoices/  
com\_apple\_MobileAsset\_VoiceServices\_CombinedVocalizerVoices.xml

Headers

User-Agent: %7BPRODUCT\_NAME%7D/%%28

CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
<<<< HTTP 200, 51.29KB

GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=297368629,...588712321&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582083; X-JS-SP-TOKEN=ED8PYk8SRQg/MjicT8eWNQ==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 53.07KB

GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=919000809,...913277014&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582084; X-JS-SP-TOKEN=QfMzaH3mPHUjYJn/E/muew==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 46.65KB

GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=387771637,...913277014,1128018936,636240052,1094591345&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582084; X-JS-SP-TOKEN=n294RpADp3HR2qckZC+H8w==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 60.23KB

GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=301521403,...1287964023&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582085; X-JS-SP-TOKEN=36FUA3s5r7Gwds+hWU5Mmw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 93.99KB

GET https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_CoreSuggestions/  
com\_apple\_MobileAsset\_CoreSuggestions.xml

Headers

User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 12.11KB  
GET https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_ProactiveEventTrackerAssets/  
com\_apple\_MobileAsset\_ProactiveEventTrackerAssets.xml

Headers

User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 3.14KB  
GET https://mesu.apple.com/assets/com\_apple\_MobileAsset\_LinguisticData/  
com\_apple\_MobileAsset\_LinguisticData.xml

Headers

User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 1.14MB  
GET https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=855275752,542701020,573916946&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd



user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582086; X-JS-SP-TOKEN=  
wYXli9LvbDeoq981WJMa+g==; xp\_ci=3  
z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#  
yNFpB6B+-2+lrdZsLr0  
<<<< HTTP 200, 9.91KB  
**GET** https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_DictionaryServices\_dictionary2/  
com\_apple\_MobileAsset\_DictionaryServices\_dictionary2.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 431.64KB  
**GET** https://mesu.apple.com/assets/com\_apple\_MobileAsset\_CoreAS/  
com\_apple\_MobileAsset\_CoreAS.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 5.09KB  
**GET** https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_TimeZoneUpdate/  
com\_apple\_MobileAsset\_TimeZoneUpdate.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 3.22KB  
**GET** https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_VoiceServices\_GryphonVoice/  
com\_apple\_MobileAsset\_VoiceServices\_GryphonVoice.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 203.07KB  
**GET** https://valid.apple.com/g3/v124  
Headers  
user-agent: com.apple.trustd/2.0  
<<<< HTTP 200, 4.37MB  
**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
wa/lookup?caller=com.apple.Health&id=286906691,...866617777&p=lookup  
&version=2  
Headers  
x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0  
<<<< HTTP 200, 39.08KB  
**GET** https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_PKITrustSupplementals/  
com\_apple\_MobileAsset\_PKITrustSupplementals.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 3.09KB  
**GET** https://mesu.apple.com/assets/com\_apple\_MobileAsset\_Duet/  
com\_apple\_MobileAsset\_Duet.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 2.13KB  
**GET** https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_AppleKeyServicesCRL/  
com\_apple\_MobileAsset\_AppleKeyServicesCRL.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 2.82KB  
**GET** https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_VoiceServices\_VoiceResources/  
com\_apple\_MobileAsset\_VoiceServices\_VoiceResources.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 306.63KB  
**GET** https://mesu.apple.com/assets/com\_apple\_MobileAsset\_HomeKit/  
com\_apple\_MobileAsset\_HomeKit.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 3.07KB  
**GET** https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_PersonalizationPortraitAsset/  
com\_apple\_MobileAsset\_PersonalizationPortraitAsset.xml

Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 4.15KB  
**GET** https://mesu.apple.com/assets/com\_apple\_MobileAsset\_EmbeddedNL/  
com\_apple\_MobileAsset\_EmbeddedNL.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 4.20KB  
**GET** https://mesu.apple.com/assets/  
com\_apple\_MobileAsset\_CoreSuggestionsModels/  
com\_apple\_MobileAsset\_CoreSuggestionsModels.xml  
Headers  
User-Agent: MobileAsset/1.1  
<<<< HTTP 200, 5.07KB  
**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
wa/lookup?caller=com.apple.Health&id=286906691,...502317923&p=lookup  
&version=2  
Headers  
x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0  
<<<< HTTP 200, 28.36KB  
**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
wa/lookup?caller=com.apple.Health&id=341232718,...502317923&p=lookup  
&version=2  
Headers  
x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0  
<<<< HTTP 200, 25.25KB  
**GET** http://ocsp.apple.com/ocsp03-asi2ca02/ME4wTKADAgEAMEUwQz  
...8xc%3D  
Headers  
User-Agent: com.apple.trustd/2.0  
<<<< HTTP 200, 2.45KB  
**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
wa/lookup?caller=com.apple.Health&id=286906691,...352247139&p=lookup  
&version=2  
Headers  
x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0  
<<<< HTTP 200, 28.36KB  
**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
wa/lookup?caller=com.apple.Health&id=286906691,...502317923&p=lookup  
&version=2  
Headers  
x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0  
<<<< HTTP 200, 40.45KB  
**GET** http://updates-http.cdn-apple.com/2019/ios/061-27057-20191024-  
E9F5776C-F6AF-11E9-9E15-D615B62FDC30/  
com\_apple\_MobileAsset\_CoreAS/80  
d39ead230549b07ced2e76b54866ef7c784579.zip  
Headers  
User-Agent: itunesstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015  
build/17G80 (6; dt:160)  
<<<< HTTP 200, 15.46KB  
**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
wa/lookup?caller=com.apple.Health&id=286906691,...502317923&p=lookup

&version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 34.27KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=286906691,....,502317923&p=lookup  
 &version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 37.52KB

**GET** https://mesu.apple.com/assets/com\_apple\_MobileAsset\_ContextKit/  
 com\_apple\_MobileAsset\_ContextKit.xml

Headers

User-Agent: MobileAsset/1.1

<<< HTTP 200, 4.24KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=297368629,....,624329444&p=lookup  
 &version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 40.49KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=286906691,....,502317923&p=lookup  
 &version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 34.27KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=341232718,946099227,352247139&  
 p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 11.66KB

**GET** https://mesu.apple.com/assets/  
 com\_apple\_MobileAsset\_CarExperienceAssets/  
 com\_apple\_MobileAsset\_CarExperienceAssets.xml

Headers

User-Agent: MobileAsset/1.1

<<< HTTP 200, 3.22KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=341232718,398436747,352247139&  
 p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 7.51KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=1236236656,....,588712321&p=  
 lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 11.31KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=1108420798,....,573916946&p=  
 lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 8.88KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=320606217,....,912530754&p=lookup  
 &version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 31.02KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=300235330,....,963034692&p=lookup  
 &version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 52.28KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=286906691,341232718,352247139&  
 p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/  
 HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6;  
 xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

<<< HTTP 200, 13.23KB

**GET** https://mesu.apple.com/assets/  
 com\_apple\_MobileAsset\_EmbeddedSpeech/  
 com\_apple\_MobileAsset\_EmbeddedSpeech.xml

Headers

User-Agent: MobileAsset/1.1

<<< HTTP 200, 69.11KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/  
 wa/lookup?caller=com.apple.Health&id=426826309,....,866617777&p=lookup  
 &version=2

Headers

x-apple-store-front: 143449-2,29  
 x-apple-client-application: com.apple.healthappd  
 user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/

t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 40.59KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=301521403,869058995,....,868310279&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 124.08KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=653031147,....,352199775&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 24.07KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=577187307,657189652,743927901&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 11.80KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=577187307,657189652,1002275138&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 13.59KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=657189652,....,743927901&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 18.69KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=992210239,....,1066018502&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 60.67KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=1144064217,643351983,469299874&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 8.39KB

**GET** https://client-api.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.Health&id=932496645,1121660424,963034692,1415257374&p=lookup&version=2

Headers

x-apple-store-front: 143449-2,29  
x-apple-client-application: com.apple.healthappd  
user-agent: com.apple.healthappd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** X-JS-TIMESTAMP=1606582088; X-JS-SP-TOKEN=ZQh/HaToOdSJHwQuehHDEw==; xp\_ci=3z3MayijzCXJz569zCK8z3e9FrQh6; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0  
<<<< HTTP 200, 11.23KB

**GET** https://mesu.apple.com/assets/com\_apple\_MobileAsset\_VoiceServices\_GryphonVoice/com\_apple\_MobileAsset\_VoiceServices\_GryphonVoice.xml

Headers

User-Agent: %7BPRODUCT\_NAME%7D/%28  
CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0

<<<< HTTP 304, 0.00B

**GET** https://mesu.apple.com/assets/com\_apple\_MobileAsset\_VoiceServices\_CustomVoice/com\_apple\_MobileAsset\_VoiceServices\_CustomVoice.xml

Headers

User-Agent: %7BPRODUCT\_NAME%7D/%28  
CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0

<<<< HTTP 304, 0.00B

**GET** https://iphone-ld.apple.com/lt0/7day/v5/latest/lt0.dat

Headers

User-Agent: locationd/2394.0.33 CFNetwork/1128.0.1 Darwin/19.6.0

<<<< HTTP 200, 225.98KB

**GET** https://iphone-ld.apple.com/lt0/rtristatus4.dat

Headers

User-Agent: locationd/2394.0.33 CFNetwork/1128.0.1 Darwin/19.6.0

<<<< HTTP 200, 232.00B

**GET** https://init.push.apple.com/bag?v=1&c=WiFi

Headers

User-Agent: iPhone10,4/13.6.1 (17G80)

<<<< HTTP 200, 3.55KB

**GET** https://mesu.apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/com\_apple\_MobileAsset\_SystemApp.xml

Headers

User-Agent: MobileAsset/1.1

<<<< HTTP 200, 27.10KB

**GET** http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
t8015 build/17G80 (6; dt:160) AMS/1

<<<< HTTP 206, 23.25MB

**GET** http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data



## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 103.05MB

POST https://api.apple-cloudkit.com/database/1/com.apple.trial/production/public/records/query?ckAPIToken=01528aff96dd7e401ea6c...ec8486ccb03630

## Headers

User-Agent: triald/76.28 CFNetwork/1128.0.1 Darwin/19.6.0

X-Apple-Cache-Key:

DB6FXe0JpcpYP0v5HG4jYwScJz7JlCgCvCbNwyD4uk0=

POST body

<...>

<<< HTTP 200, 58.58KB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 102.00MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 14.14MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 99.99MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 66.72MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 22.23MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 111.89MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 30.51MB

GET https://apple.news/.well-known/apple-app-site-association

## Headers

User-Agent: swcd (unknown version) CFNetwork/1128.0.1 Darwin/19.6.0

<<< HTTP 200, 150.00B

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11

EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-

D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 121.02MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 24.39MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 67.59MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 411.29KB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 95.92MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 17.29MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 96.36MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 92.53MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 140.60MB

GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data

## Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/

t8015 build/17G80 (6; dt:160) AMS/1  
 <<< HTTP 200, 140.98MB  
 GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data  
 Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 91.92MB  
 GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data  
 Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 81.78MB  
 GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data  
 Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 81.78MB  
 GET http://updates-http.cdn-apple.com/systemassets/7FEA8C96-D86C-11EA-B09C-6EA50FBD8873/2D3A681F-ADD4-467B-9C17-D0882756940E/com\_apple\_MobileAsset\_SystemApp/990F1DAB-2F16-448C-AF37-A5FCBF1DE680.data  
 Headers

User-Agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1

<<< HTTP 206, 96.03MB  
 POST https://gateway.icloud.com/config  
 Headers

content-type: application/json  
 x-apple-i-md-rinfo: 17106176  
 x-apple-i-md: AAAABQAAABAt6...SjbTAAAAAw==  
 x-apple-i-locale: en\_IE  
 x-mme-client-info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <com.apple.AuthKit/1 (com.apple.icloud.searchpartyd/1.0)>  
 content-length: 0  
 user-agent: searchpartyd/1 iPhone10,4/13.6.1  
 x-apple-i-md-m: 5ekJNohUcJUP1EFYFrRt...yO+0J7ljk6EljMp

POST body

<<< HTTP 400, 0.00B

GET https://smp-device-content.apple.com/static/region/v2/config.json  
 Headers

X-Apple-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <com.apple.PassKitCore/1 (com.apple.purplebuddy/1.0)>

X-Apple-I-Locale: en\_IE  
 X-Apple-I-MD-RINFO: 17106176  
 X-Apple-I-MD-M: 5ekJNohUcJUP1EFYFrRt...myO+0J7ljk6EljMp  
 X-Apple-I-MD: AAAABQAAA...SjbTAAAAAw==  
 User-Agent: Setup/1.0 CFNetwork/1128.0.1 Darwin/19.6.0  
 x-apple-soc-type: t8015  
 X-Apple-Device-Region: IE  
 X-Apple-Web-Service-Session: 486081CF-EDD9-4B65-B5D3-0628E298C7D7

x-apple-seid:  
 046E4BABA4280017207172230942566E22AD196DF33D24C  
 <<< HTTP 200, 86.20KB

GET https://configuration.apple.com/configurations/pep/config/pepconfig.plist  
 Headers

User-Agent: passwd/1.0 CFNetwork/1128.0.1 Darwin/19.6.0  
 <<< HTTP 200, 870.00B

GET https://mesu.apple.com/assets/com\_apple\_MobileAsset\_SharingDeviceAssets/com\_apple\_MobileAsset\_SharingDeviceAssets.xml  
 Headers

User-Agent: %7BPRODUCT\_NAME%7D/%28CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
 <<< HTTP 304, 0.00B

POST https://idiagnostics.apple.com/ios/v1.3/session  
 Headers

Content-Encoding: gzip  
 X-DA-LOG-LEVEL: 0  
 User-Agent: AST/1.3 (iPhone; CPU iOS 13\_6\_1 like Mac OS X)  
 Version/13.6.1 Mobile/17G80 com.apple.DiagnosticsSessionAvailability/2.7  
 POST body  
 [{"identifiers":[{"type":"FGSN","serialNumber":"C8PVCB1HJC67"}]}]

<<< HTTP 200, 97.00B  
 POST https://gdmf.apple.com/v2/assets  
 Headers

User-Agent: %7BPRODUCT\_NAME%7D/%28CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
 POST body

```
{
  "TrainName": "YukonG",
  "SessionId": "0B13A27F-FFA3-430E-8B6D-672FA9FC4074",
  "ProductType": "iPhone10,4",
  "AssetType": "com.apple.MobileAsset.MobileSoftwareUpdate.UpdateBrain",
  "ProductVersion": "13.6.1",
  "DeviceClass": 1,
  "DeviceVariant": "A",
  "SigningFuse": "true",
  "CompatibilityVersion": "20",
  "ClientData": {
    "DeviceAccessClient": "softwareupdated"
  },
  "Nonce": "D484B96A-384C-417C-BD76-6BAD94BF313F",
  "Supervised": "false",
  "ProductName": "iPhone OS",
  "BaseUrl": "https://mesu.apple.com/assets/",
  "AssetAudience": "01c1d682-6e8f-4908-b724-5501fe3f5e5c",
  "BuildVersion": "17G80",
  "ClientVersion": 2,
  "InternalBuild": "false",
  "BuildID": "7FEA8C96-D86C-11EA-B09C-6EA50FBD8873",
  "IsUIBuild": "true",
  "HWModelStr": "D201AP",
  "SystemImageID": "2D3A681F-ADD4-467B-9C17-D0882756940E",
  "DelayRequested": "false",
  "DeviceName": "iPhone"
}
```

<<< HTTP 200, 18.91KB

GET http://ocsp.apple.com/ocsp03-asica401/ME4wTKADAgEAMEUwQzBBMA...yM%3D  
 Headers

User-Agent: com.apple.trustd/2.0  
 <<< HTTP 200, 1.58KB

GET http://ocsp.apple.com/ocsp03-applerootcag3/ME4wTKADAgEAMEUwQzBBMAkGBSSoAwIaBQAQEFDO9%2BWuiBh%2FOOBXswAMX5FRQRzCbBBS7sN6hWDOImqSKmd6%2Bveuv2sskqwIIMw3u%2BL9MaC4%3D  
 Headers

User-Agent: com.apple.trustd/2.0  
 <<< HTTP 200, 894.00B

POST https://xp.apple.com/report/2/psr\_ota  
 Headers

User-Agent: %7BPRODUCT\_NAME%7D/%28CURRENT\_PROJECT\_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0  
 POST body

```
{
  "clientId": "0B13A27F-FFA3-430E-8B6D-672FA9FC4074",
  "events": [
    {
      "reportVersion": "2",
      "splunkErrorCount": 1,
      "failureReason": "V2 networking issue",
      "httpCode": -16,
      "releaseType": "Unknown",
      "event": "catalogLookup",
      "eventId": "710B0DF6-01C7-4757-B188-10BC9F59B8C1",
      "baseUrl": "https://mesu.apple.com/assets/",
      "type": "backgroundDiscretionary",
      "pallasClientNonce": "C148D185-452C-45FF-8244-99BDAD9DB827",
      "buildVersion": "17G80",
      "eventTime": "1606580732717",
      "assetType": "com.apple.MobileAsset.MobileSoftwareUpdate",
      "currentOSVersion": "13.6.1",
      "sessionId": "2A7FA914-0488-450E-860A-450DD5A92BA0",
      "splunkResultKey": "fail",
      "mobileAssetAudience": "01c1d682-6e8f-4908-b724-5501fe3f5e5c",
      "hwModelStr": "D201AP",
      "assetReceiptData": {
        "Total": 1 (
          Missing: 0 Valid: 1 Expired: 0 Errors: 0)
        ErrorCodes: (\n),
        reportVersion: "2",
        httpCode: 200,
        releaseType: "Unknown",
        event: "catalogLookup",
        eventId: "7BFFF0C6-ED10-491F-915B-5417E927E5FC",
        baseUrl: "https://mesu.apple.com/assets/",
        type: "backgroundDiscretionary",
        pallasClientNonce: "D484B96A-384C-417C-BD76-6BAD94BF313F",
        buildVersion: "17G80",
        eventTime: "1606583687543",
        assetType: "com.apple.MobileAsset.MobileSoftwareUpdate.UpdateBrain",
        currentOSVersion
      }
    }
  ]
}
```

```

": "13.6.1", "sessionId": "0B13A27F-FFA3-430E-8B6D-672FA9FC4074",
"splunkResultKey": "success", "MobileAssetAssetAudience": "01c1d682-6e8f-4908-b724-5501fe3f5e5c", "HWModelStr": "D201AP"}]]}

```

```
<<<< HTTP 200, 2.00B
```

```
POST https://gdmf.apple.com/v2/assets
```

```
Headers
```

```

User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
POST body

```

```

{
  "TrainName": "YukonG",
  "SessionId": "3E92BDB0-8B9C-43FA-A0E8-82A324FAB641",
  "ProductType": "iPhone10,4",
  "AssetType": "com.apple.MobileAsset.SoftwareUpdate",
  "ProductVersion": "13.6.1",
  "DeviceClass": 1,
  "DeviceVariant": "A",
  "SigningFuse": "true",
  "ClientData": {
    "DeviceAccessClient": "softwareupdateservicesd"
  },
  "Nonce": "5EB12FA4-8BBF-41BC-BDC4-8CDCC0F18383",
  "Supervised": "false",
  "ProductName": "iPhone OS",
  "BaseUrl": "https://mesu.apple.com/assets/",
  "AssetAudience": "01c1d682-6e8f-4908-b724-5501fe3f5e5c",
  "BuildVersion": "17G80",
  "ClientVersion": 2,
  "InternalBuild": "false",
  "BuildID": "7FEA8C96-D86C-11EA-B09C-6EA50FBD8873",
  "IsUIBuild": "true",
  "HWModelStr": "D201AP",
  "SystemImageID": "2D3A681F-ADD4-467B-9C17-D0882756940E",
  "DelayRequested": "false",
  "DeviceCheck": "Background",
  "DeviceName": "iPhone"
}

```

```
<<<< HTTP 200, 36.70KB
```

```
POST https://xp.apple.com/report/2/psr_ota
```

```
Headers
```

```

User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
POST body

```

```

{"clientId": "10C3F664-1FDF-46B3-82A0-74FAAA0AE05B", "events": [{"assetReceiptData": {"Total": 2 (Missing: 0 Valid: 2 Expired: 0 Errors: 0) ErrorCodes: (\n)", "reportVersion": "2", "httpCode": "200", "ReleaseType": "Unknown", "event": "catalogLookup", "eventUuid": "DC9D1DC5-44F2-4C1A-BF19-68BBC2781138", "baseUrl": "https://mesu.apple.com/assets/", "type": "backgroundDiscretionary", "pallasClientNonce": "5EB12FA4-8BBF-41BC-BDC4-8CDCC0F18383", "BuildVersion": "17G80", "eventTime": "1606583687856", "assetType": "com.apple.MobileAsset.SoftwareUpdate", "currentOSVersion": "13.6.1", "sessionId": "10C3F664-1FDF-46B3-82A0-74FAAA0AE05B", "splunkResultKey": "success", "MobileAssetAssetAudience": "01c1d682-6e8f-4908-b724-5501fe3f5e5c", "HWModelStr": "D201AP"}]}]

```

```
<<<< HTTP 200, 2.00B
```

```
POST https://gdmf.apple.com/v2/assets
```

```
Headers
```

```

User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
POST body

```

```

{
  "TrainName": "YukonG",
  "SessionId": "9AB1B74D-8FF6-4EC9-AA38-4BD5BF11BF7E",
  "ProductType": "iPhone10,4",
  "AssetType": "com.apple.MobileAsset.SoftwareUpdateDocumentation",
  "ProductVersion": "13.6.1",
  "DeviceClass": 1,
  "DeviceVariant": "A",
  "SigningFuse": "true",
  "ClientData": {
    "DeviceAccessClient": "softwareupdateservicesd"
  },
  "Nonce": "7BDA9825-33FF-41C2-B7A3-DCE5EF478A3E",
  "Supervised": "false",
  "ProductName": "iPhone OS",
  "BaseUrl": "https://mesu.apple.com/assets/",

```

```

"AssetAudience": "01c1d682-6e8f-4908-b724-5501fe3f5e5c",
"BuildVersion": "17G80",
"ClientVersion": 2,
"InternalBuild": "false",
"SUDocumentationID": "iOS142Long",
"BuildID": "7FEA8C96-D86C-11EA-B09C-6EA50FBD8873",
"IsUIBuild": "true",
"HWModelStr": "D201AP",
"Device": "iPhone",
"SystemImageID": "2D3A681F-ADD4-467B-9C17-D0882756940E",
"DelayRequested": "false",
"CertIssuanceDay": "2020-09-29",
"DeviceName": "iPhone"
}

```

```
<<<< HTTP 200, 11.26KB
```

```
POST https://xp.apple.com/report/2/psr_ota
```

```
Headers
```

```

User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
POST body

```

```

{"clientId": "9AB1B74D-8FF6-4EC9-AA38-4BD5BF11BF7E", "events": [{"assetReceiptData": {"Total": 1 (Missing: 0 Valid: 1 Expired: 0 Errors: 0) ErrorCodes: (\n)", "reportVersion": "2", "httpCode": "200", "ReleaseType": "Unknown", "event": "catalogLookup", "eventUuid": "9EDD30FD-6BCF-4E2A-A29B-BE1223A1CA10", "baseUrl": "https://mesu.apple.com/assets/", "type": "backgroundDiscretionary", "pallasClientNonce": "7BDA9825-33FF-41C2-B7A3-DCE5EF478A3E", "BuildVersion": "17G80", "eventTime": "1606583688418", "assetType": "com.apple.MobileAsset.SoftwareUpdateDocumentation", "currentOSVersion": "13.6.1", "sessionId": "9AB1B74D-8FF6-4EC9-AA38-4BD5BF11BF7E", "splunkResultKey": "success", "MobileAssetAssetAudience": "01c1d682-6e8f-4908-b724-5501fe3f5e5c", "HWModelStr": "D201AP"}]}]

```

```
<<<< HTTP 200, 2.00B
```

```
GET http://updates-http.cdn-apple.com/2020FallFCS/mobileassets
```

```

/001-62165/F4052D84-DC41-414E-90A4-7E6E9715DD7C/
com_apple_MobileAsset_SoftwareUpdateDocumentation/86
ea5441393e1f0b96656bb5ad56364b308b7ca6.zip

```

```
Headers
```

```

User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 1.08MB

```

```
POST https://xp.apple.com/report/2/psr_ota
```

```
Headers
```

```

User-Agent: %7BPRODUCT_NAME%7D/1 CFNetwork/1128.0.1
Darwin/19.6.0

```

```
POST body
```

```

{"clientId": "3E92BDB0-8B9C-43FA-A0E8-82A324FAB641", "events": [{"targetOSVersion": "18B92", "reportVersion": "1.0", "storageCapacity": 61035, "batteryLevel": 100, "systemFsFree": 0, "systemFsCapacity": 6041, "dataFsCapacity": 54973, "event": "otaAvailable", "currentOSVersion": "17G80", "dataFsFree": 54175, "updateType": "incremental", "batteryIsCharging": true, "deviceClass": "iPhone", "eventTime": "1606583688873", "currentOSType": "Unknown", "deviceModel": "D201AP", "UUID": "3E92BDB0-8B9C-43FA-A0E8-82A324FAB641", "installTonight": "false,autoOff,disabled,fg", "result": "success"}]}]

```

```
<<<< HTTP 200, 2.00B
```

```
POST https://gdmf.apple.com/v2/assets
```

```
Headers
```

```

User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
POST body

```

```

{
  "TrainName": "YukonG",
  "SessionId": "3D7C2DAF-EF66-4975-A049-5B8FCABB4D78",
  "ProductType": "iPhone10,4",
  "AssetType": "com.apple.MobileAsset.MobileSoftwareUpdate.UpdateBrain",
  "ProductVersion": "13.6.1",
  "DeviceClass": 1,
  "DeviceVariant": "A",
  "SigningFuse": "true",
  "CompatibilityVersion": "20",
  "ClientData": {
    "DeviceAccessClient": "softwareupdated"
  },
  "Nonce": "EF02CD63-DC67-49BE-A404-C858DC9DCE3A",
  "Supervised": "false",

```

```

"ProductName" : "iPhone OS",
"BaseUrl" : "https://mesu.apple.com/assets/",
"AssetAudience" : "01c1d682-6e8f-4908-b724-5501fe3f5e5c",
"BuildVersion" : "17G80",
"ClientVersion" : 2,
"InternalBuild" : "false",
"BuildID" : "7FEA8C96-D86C-11EA-B09C-6EA50FBD8873",
"IsUIBuild" : "true",
"HWMModelStr" : "D201AP",
"SystemImageID" : "2D3A681F-ADD4-467B-9C17-D0882756940E",
"DelayRequested" : "false",
"CertIssuanceDay" : "2020-09-29",
"DeviceName" : "iPhone"
}
<<<< HTTP 200, 16.07KB
POST https://xp.apple.com/report/2/psr_ota
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
POST body
{"clientId":"3D7C2DAF-EF66-4975-A049-5B8FCABB4D78","events":[{"assetReceiptData":{"Total: 1 (Missing: 0 Valid: 1 Expired: 0 Errors: 0) ErrorCodes: (\n)","reportVersion":"2","httpCode":200,"ReleaseType":"Unknown","event":"catalogLookup","eventUuid":"BCB91847-52DE-4146-8B6B-9A6743B4F1D0","baseUrl":"https://mesu.apple.com/assets/","type":"backgroundDiscretionary","pallasClientNonce":"EF02CD63-DC67-49BE-A404-C858DC9DCE3A","BuildVersion":"17G80","eventTime":"1606583689278","assetType":"com.apple.MobileAsset.MobileSoftwareUpdate.UpdateBrain","currentOSVersion":"13.6.1","sessionId":"3D7C2DAF-EF66-4975-A049-5B8FCABB4D78","splunkResultKey":"success","MobileAssetAssetAudience":"01c1d682-6e8f-4908-b724-5501fe3f5e5c","HWMModelStr":"D201AP"}]}
<<<< HTTP 200, 2.00B
GET http://updates-http.cdn-apple.com/2020FallFCS/patches/001-73650/5F8E89DC-FA0B-4AE3-9E69-ED960611558A/com_apple_MobileAsset_MobileSoftwareUpdate_UpdateBrain/84dfdec38ac385d439e98037172fdac7cae6aa9.zip
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 1.01MB
GET http://software.apple.com/welcomemat.apple.com/
Headers
  User-Agent: Setup/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 301, 0.00B
GET https://setup.icloud.com/configurations/init?context=buddy
Headers
  X-MME-Country: IE
  X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <com.apple.AppleAccount/1.0 (com.apple.purplebuddy/1.0)>
  X-MME-Language: en-IE
  X-Apple-I-MD-M: SekJNohUcJUP1EFYFrRt5...yO+0J7ljk6EljMp
  X-Apple-I-MD: AAAABQAAAB...pAAAAAw==
  User-Agent: Setup/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
  X-Apple-I-MD-RINFO: 17106176
  X-Apple-I-Locale: en_IE
<<<< HTTP 200, 4.91KB
GET https://setup.icloud.com/configurations/init?context=settings
Headers
  X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <com.apple.AppleAccount/1.0 (com.apple.purplebuddy/1.0)>
  X-Apple-I-MD-M: SekJNohUcJUP1EFYFrR...myO+0J7ljk6EljMp
  X-Apple-I-MD: AAAABQAAAB...AAAAAw==
  User-Agent: Setup/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
  X-Apple-I-MD-RINFO: 17106176
  X-Apple-I-Locale: en_IE
<<<< HTTP 200, 12.09KB
POST https://setup.icloud.com/setup/iosbuddy/ui/genericTermsUI
Headers
  X-Apple-I-MD-RINFO: 17106176
  X-Apple-iOS-SLA-Version: 0
  X-MME-Country: IE
  X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <com.apple.AppleAccount/1.0 (com.apple.purplebuddy/1.0)>
  X-MME-Language: en-IE
  X-Apple-I-MD-M: SekJNohUcJUP1EFY...yO+0J7ljk6EljMp
  X-Apple-I-MD: AAAABQAAA...AAAAAw==
  User-Agent: Setup/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
  X-Apple-I-Locale: en_IE
POST https://gdmf.apple.com/v2/assets
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
POST body
{"TrainName": "YukonG",
"SessionId": "9E106F91-BB65-4BCA-8AF1-C2D4E62E2641",
"ProductType": "iPhone10,4",
"AssetType": "com.apple.MobileAsset.SoftwareUpdate",
"ProductVersion": "13.6.1",
"DeviceClass": 1,
"DeviceVariant": "A",
"SigningFuse": "true",
"ClientData": {
  "DeviceAccessClient": "softwareupdateservicesd"
},
"Nonce": "C595FCE0-C2EB-406E-A344-D1A154238C1A",
"Supervised": "false",
"ProductName": "iPhone OS",
"BaseUrl": "https://mesu.apple.com/assets/",
"AssetAudience": "01c1d682-6e8f-4908-b724-5501fe3f5e5c",
"BuildVersion": "17G80",
"ClientVersion": 2,
"InternalBuild": "false",
"BuildID": "7FEA8C96-D86C-11EA-B09C-6EA50FBD8873",
"IsUIBuild": "true",
"HWMModelStr": "D201AP",
"SystemImageID": "2D3A681F-ADD4-467B-9C17-D0882756940E",
"DelayRequested": "false",
"DeviceCheck": "Background",
"CertIssuanceDay": "2020-09-29",
"DeviceName": "iPhone"
}
<<<< HTTP 200, 33.86KB
POST https://xp.apple.com/report/2/psr_ota
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
POST body
{"clientId":"BC9BC654-F923-4B30-92EA-420DD97B09E5","events":[{"assetReceiptData":{"Total: 2 (Missing: 0 Valid: 2 Expired: 0 Errors: 0) ErrorCodes: (\n)","reportVersion":"2","httpCode":200,"ReleaseType":"Unknown","event":"catalogLookup","eventUuid":"DC98AC01-A142-40FF-A71D-CC6819CD5396","baseUrl":"https://mesu.apple.com/assets/","type":"backgroundDiscretionary","pallasClientNonce":"C595FCE0-C2EB-406E-A344-D1A154238C1A","BuildVersion":"17G80","eventTime":"1606583764804","assetType":"com.apple.MobileAsset.SoftwareUpdate","currentOSVersion":"13.6.1","sessionId":"BC9BC654-F923-4B30-92EA-420DD97B09E5","splunkResultKey":"success","MobileAssetAssetAudience":"01c1d682-6e8f-4908-b724-5501fe3f5e5c","HWMModelStr":"D201AP"}]}
<<<< HTTP 200, 2.00B
GET https://gateway.icloud.com/configuration/configurations/internetservices/cloudkit/cloudkit-1.0.plist
Headers
  x-apple-request-uuid: E1F27A27-9816-4845-893D-3927DB093375
  x-apple-operation-group-id: 51494C28134756C4
  x-cloudkit-containerid: com.apple.SafariShared.
WBSCloudBookmarksStore
  x-apple-operation-id: C25E17CB05A0360E
  x-cloudkit-bundleid: com.apple.SafariBookmarksSyncAgent
  user-agent: CloudKit/867 (17G80)
  x-mme-client-info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <com.apple.cloudkit.CloudKitDaemon/867 (com.apple.cloud/867)>
  x-apple-ckappid: com.apple.SafariShared.WBSCloudBookmarksStore
<<<< HTTP 200, 9.84KB
GET https://gateway.icloud.com/configuration/configurations/internetservices/cloudkit/cloudkit-1.0.plist
Headers
  x-apple-request-uuid: 96E09D0A-858F-43F1-9A50-

```





```

<<<< HTTP 200, 3.77MB
GET http://updates-http.cdn-apple.com/2020/ios/061-44374-20200220-8
BA17C32-59C5-11EA-8446-8314B5FAA694/
com_apple_MobileAsset_DictionaryServices_dictionary2/2175743631
f2a2ad4d5b8b12ef15de90b7317fb.zip
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 4.69MB
GET http://updates-http.cdn-apple.com/2020/ios/061-44375-20200220-8
BA178B8-59C5-11EA-829F-A420E3FAD964/
com_apple_MobileAsset_DictionaryServices_dictionary2/414
db8c366f303da3524859476fc29e2bc274f3f.zip
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 6.43MB
GET https://mesu.apple.com/assets/com_apple_MobileAsset_LinguisticData/
com_apple_MobileAsset_LinguisticData.xml
Headers
  User-Agent: MobileAsset/1.1
<<<< HTTP 304, 0.00B
GET https://mesu.apple.com/assets/com_apple_MobileAsset_LinguisticData/
com_apple_MobileAsset_LinguisticData.xml
Headers
  User-Agent: MobileAsset/1.1
<<<< HTTP 304, 0.00B
GET http://updates-http.cdn-apple.com/2020/ios/061-44375-20200220-8
BA178B8-59C5-11EA-829F-A420E3FAD964/
com_apple_MobileAsset_DictionaryServices_dictionary2/90
f2a962b42b9810be999f155df109b4ecb1b0cb.zip
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 200, 28.62MB
GET http://updates-http.cdn-apple.com/2020/ios/061-73026-20200124-
B3C944C4-503D-11EA-856C-3E2A35D1396B/
com_apple_MobileAsset_LinguisticData/3
a60b9c913724f171d6362c8d5fb876672b849d8.zip
Headers
  User-Agent: itunesstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015
build/17G80 (6; dt:160)
<<<< HTTP 200, 376.22KB
GET https://mesu.apple.com/assets/com_apple_MobileAsset_LinguisticData/
com_apple_MobileAsset_LinguisticData.xml
Headers
  User-Agent: MobileAsset/1.1
<<<< HTTP 304, 0.00B
GET https://api-glb-dub.smoot.apple.com/spotlight_model_resources/2/
spotlight_ml.mpak?key=frigate1738&version=2
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 3.77MB
GET https://api-glb-dub.smoot.apple.com/static_corrections_dict/20200930/
static_corrections_dict.json?key=frigate1738&version=20200930
Headers
  If-Range: Wed, 30 Sep 2020 19:10:37 GMT
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 206, 1.04MB
GET https://api-glb-dub.smoot.apple.com/spotlight_suggestions_stopwords
/4/stopwords-en.map?key=frigate1738&version=4
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 145.28KB
GET https://api-glb-dub.smoot.apple.com/crowdsourcing_blacklist_url?key=
frigate1738&version=2ca06afd0850f1f42695f6b6928dc0f4
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 90.00B
GET https://api-glb-dub.smoot.apple.com/crowdsourcing_whitelist_url?key=
frigate1738&version=032857ed01170d11e723650d446758bd
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 56.32KB
GET http://updates-http.cdn-apple.com/2020/ios/061-73026-20200124-
B3C944C4-503D-11EA-856C-3E2A35D1396B/
com_apple_MobileAsset_LinguisticData/
c90b965621ab76c71700d44ff00e918b5ca453ec.zip
Headers
  User-Agent: itunesstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015
build/17G80 (6; dt:160)
<<<< HTTP 200, 30.92MB
GET https://api-glb-dub.smoot.apple.com/silhouette_topic_mapping/5/
silhouette_topic_mapping?key=frigate1738&version=5
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 1006.38KB
GET https://api-glb-dub.smoot.apple.com/lookup_hints_url/en_IE/weekly.
json?disable=1&key=frigate1738&version=51
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 307, 98.00B
GET https://api-glb-dub.smoot.apple.com/qi_features_url?key=frigate1738&
locale=en_IE&version=00000000000000000000000000000000000000000014
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 9.25KB
GET https://cdn.smoot.apple.com/lookup_hints/0/en/geo1/weekly.json
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 67.00B
GET https://api-glb-dub.smoot.apple.com/dictionary_resources_url?key=
frigate1738&version=d4546b111e90a1d7005fa43d34bd2f7b
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 1.24KB
GET https://api-glb-dub.smoot.apple.com/silhouette_whitelisted_topics/5/
silhouette_whitelisted_topics?key=frigate1738&version=5
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 53.68KB
GET https://api-glb-dub.smoot.apple.com/lookup_hints_url/en_IE/monthly.
json?disable=1&key=frigate1738&version=51
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 307, 99.00B
GET https://api-glb-dub.smoot.apple.com/installed_app_whitelist_url?key=
frigate1738&version=77209e2e310a35da1cbea2e72583cc58
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 164.08KB
GET https://api-glb-dub.smoot.apple.com/autofill_tld_whitelist_url?key=
frigate1738&version=d82910c408523dcb3cfb020124f6e8b9
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 4.06MB
GET https://cdn.smoot.apple.com/lookup_hints/0/en/geo1/monthly.json
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 67.00B
GET https://api-glb-dub.smoot.apple.com/silhouette_config/5/
silhouette_config?key=frigate1738&version=5
Headers
  User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<<< HTTP 200, 198.00B
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_SearchAds_AppVector/
com_apple_MobileAsset_SearchAds_AppVector.xml

```

## Headers

```
User-Agent: %7BPRODUCT_NAME%7D/%%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<< HTTP 200, 4.87KB
GET https://api-glb-dub.smoot.apple.com/
spotlight_suggestions_phrase_dictionary/4/phrase-dictionary-en-US.map?
key=frigate1738&version=4
Headers
User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)
Spotlight/1
<<< HTTP 200, 3.24MB
```

## B. Connections When Phone Idle & User Not Logged Into Apple Account

When the user is logged out and location is disabled the following handset network connections are made:

- 1) Roughly every 2-3 days the handset makes a connection to sas.apple.com that sends many device identifiers including the handset hardware serial number, the sim IMEI and serial number and the handset phone number. When a sim is inserted into the handset a one-off connection is made that sends a similar linked set of identifiers to albert.apple.com/deviceservices/activity/phoneNumberSimNotification.
- 2) Although the user is not logged in to an Apple account (and so the Apple appstore cannot be used) periodic connections are made to init.itunes.apple.com and bag.itunes.apple.com that send a cookie that can act as a device identifier.
- 3) Connections made by the adprivacyd process, which appears related to managing advertising settings, also send a cookie and in addition transmit an opaque binary message.
- 4) Occasional telemetry also appears to be sent to xp.apple.com, even though Apple telemetry is disabled in the handset settings.
- 5) Although icloud is disabled and the user is not logged in to an Apple account, connections are made to icloud services that send device identifiers, including the long-lived X-Mme-Device-Id value.
- 6) Although use of location is disabled, processes associated with location services in the handset (locationd and geod) periodically make network connections. The locationd process downloads files that likely relate to GPS chipset settings, no identifiers are sent. However the geod process uploads opaque binary message to gsp85-ssl.ls.apple.com that can be seen to contain the MAC addresses of nearby devices sharing the same WiFi network as the handset.
- 7) Although Siri is not enabled on the handset, connections are made to server smoot.apple.com by the parsed process associated with Siri. When a URL is typed in Safari, corresponding telemetry logging the URL is sent to smoot.apple.com. Again, this occurs despite the fact that Apple telemetry is disabled in the device settings.

- 8) The Safari browser makes periodic connections to the Google Safe Browsing anti-phishing service. No identifiers are sent.
- 9) Connections are made to mesu.apple.com that appear to be checking for updates. No identifiers are sent.

## Connection details:

The following connection to the grandslam endpoint is made every 2-3 days:

```
POST https://gsas.apple.com/grandslam/GsService2/postdata
Headers
User-Agent: akd/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
X-Apple-I-Device-Configuration-Mode: 0
X-Apple-I-UriSwitch-Info:
MDAxMDI5LTA1LTk4MTEExM2VjLW...4Mjpw3N0RGF0YQ==
X-Apple-HB-Token:
MDAxMDI5LTA1LTk4MTEExM2VjLW...5XN3dnPT0=
X-Mme-Device-Id: 7c2694081d...71412dc5bc5
X-MMe-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <
com.apple.akd/1.0 (com.apple.akd/1.0)>
X-Apple-I-DeviceUserMode: 0
X-Apple-I-MD-RINFO: 17106176
X-Apple-I-SRL-NO: C8PVCB1HJC67
X-Apple-I-MD-M: 5ekJNohUcJUPIEFY...e75pPzhhIYjL2Z
X-Apple-I-MD: AAAABQAA...kLMhAAAAAw==
POST body
<?xml version="1.0" encoding="UTF-8"?>
<DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.
apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>Header</key>
  <dict/>
  <key>Request</key>
  <dict>
    <key>cfuids</key>
    <array/>
    <key>circleStatus</key>
    <false/>
    <key>clbg</key>
    <string>0</string>
    <key>clcg</key>
    <string>1</string>
    <key>clhs</key>
    <string>8</string>
    <key>dc</key>
    <string>1</string>
    <key>dec</key>
    <string>8</string>
    <key>dn</key>
    <string>iPhone</string>
    <key>event</key>
    <string>liveness</string>
    <key>iccid</key>
    <string>8935311180135555145</string>
    <key>imei</key>
    <string>356765081821496</string>
    <key>loc</key>
    <string>en_IE</string>
    <key>phones</key>
    <array>
      <dict>
        <key>dataPreferred</key>
        <true/>
        <key>defaultVoice</key>
        <true/>
        <key>inUse</key>
        <integer>1</integer>
        <key>label</key>
        <string>USER_LABEL_PRIMARY</
string>
        <key>number</key>
        <string>+35389...97590</string>
        <key>physicalSim</key>
        <true/>
```

```

    <key>slotID</key>
    <integer>1</integer>
  </dict>
</array>
<key>pn</key>
<string>+35389...97590</string>
<key>prkgen</key>
<true/>
<key>prtn</key>
<string>3D038</string>
<key>ptkn</key>
<string>7534B939D...6E2750CB0FD0</string>
<key>rep</key>
<integer>1</integer>
<key>services</key>
<array>
  <string>itunesstore</string>
</array>
<key>sn</key>
<string>C8PVCB1HJC67</string>
<key>ut</key>
<integer>1</integer>
</dict>
</dict>
</plist>

```

<<< HTTP 200, 299.00B  
 The X-Apple-I-SRL-NO header and the XML sn key are the device hardware serial number. The XML imei key is the sim IMEI. The XML number and pn keys are the handset phone number. The XML iccid is the sim Integrated Circuit Card Identifier i.e. the sim serial number. The X-Mme-Device-Id header appears to be a persistent device identifier (in various other messages it is referred to as the guid, absinthe-udid, UniqueDeviceID). The XML ptkn key also appears to be a persistent device identifier. The X-Apple-I-UrlSwitch-Info is base64 encoded and decodes to: 001029-05-981113ec-d429-4577-a19f-fdd9eabca682:postData which is the x-apple-adsid value. The X-Apple-HB-Token is also base64 encoded and decodes to: 001029-05-981113ec-d429-4577-a19f-fdd9eabca682: AAAABLwIAAAAF9KJ;CERCcmdzLmlkbXMuaGK9AJKkTAFYbHyLNC0x+hVJdIqOjFUE+bG+ RabTjXvZetgrsCTP7UREAoAtXxzEg7mbumRuOa6eLS8LQcRUMDLTR6PTrc / AB5eDmNTvhXAs5H8EY3kzoq591fO4V2a6eGCTSkBvsxR0eSQPW2esICGX2BEAF5pL5sdmW7wnt: 143449-2,29 == i.e. also to the x-apple-adsid plus a second base64 encoded string which decodes to binary.

Although the user is not logged in and the appstore has not been used the following connections appear to be checking for Apple appstore updates. Observe that a cookie is sent to init.itunes.apple.com, bag.itunes.apple.com and su.itunes.apple.com which links the requests to the device :

```

GET https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en_IE
Headers
  x-apple-store-front: 143449-2,29
  x-apple-partner: origin.0
  x-apple-connection-type: WiFi
  user-agent: itunesstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160)
  cookie: itspod=28; xp_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0
<<< HTTP 200, 236.09KB
GET https://init.push.apple.com/bag?v=1&c=WiFi
Headers
  User-Agent: iPhone10,4/13.6.1 (17G80)
<<< HTTP 200, 3.55KB
GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&deviceClass=iPhone&product=com.apple.appstored&productVersion=1.0&profile=appstored&profileVersion=1&format=json&storefront=143449-2,29
Headers
  x-apple-store-front: 143449-2,29
  x-apple-client-application: com.apple.appstored
  user-agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1
  cookie: itspod=28; xp_ci=3z24WhRAzByez50zqAJizn1clhAdV; xp_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0
<<< HTTP 200, 18.86KB
POST https://su.itunes.apple.com/WebObjects/MZSoftwareUpdate.woa/wa/

```

```

availableSoftwareUpdates?version=2
Headers
  user-agent: com.apple.appstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1
  x-apple-store-front: 143449-2,29
  x-dsid: 99829848
  x-apple-client-application: com.apple.appstored
  x-apple-i-md-rinfo: 17106176
  x-apple-adsid: 001029-05-981113ec-d429-4577-a19f-fdd9eabca682
  x-apple-i-md-m: 5ekJNohUcJUP1EFYFR...e75pPzhHYjL2Z
  x-apple-i-md: AAAABQAAAAB...WAAAAAAw==
  cookie: itspod=28; xp_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0; countryVerified=1; xp_ci=3z24WhRAzByez50zqAJizn1clhAdV
  POST body
  ...
  <key>guid</key>
  <string>7c2694081d97b7...bf49871412dc5bc5</string>
  <key>kbsync</key>
  <string>AAQAAA/scuMuPVHJH4pl2wgFIjla1...qVL/tV8=</string>
string>
  <key>local-software</key>
  <array>
    <dict>
      <key>adam-id</key>
      <integer>1505596721</integer>
      <key>installed-version-identifier</key>
      <integer>837990228</integer>
    </dict>
  </array>
</dict>
</plist>

```

The following connections are generated by the adprivacyd process running on the handset (which Apple documentation says "manages user privacy in advertising and allows opting out of targeted advertisements"). Observe that a cookie is sent to bag.itunes.apple.com and a binary message to iadsdk.apple.com:

```

GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&deviceClass=iPhone&product=com.apple.ap.adprivacyd&productVersion=1.0&profile=adprivacyd&profileVersion=1&format=json&storefront=143449-2,29
Headers
  user-agent: com.apple.ap.adprivacyd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1
  cookie: itspod=28; xp_ci=3z24WhRAzByez50zqAJizn1clhAdV; xp_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0
<<< HTTP 200, 396.00B
POST https://cf.iadsdk.apple.com/adserver/2.6/config
Headers
  storefront: 143449-2,29
  bundleID: com.apple.ap.adprivacyd
  User-Agent: iPhone10,4; Version 13.6.1 (Build 17G80); com.apple.ap.adprivacyd; 143449-2,29
  device: iPhone10,4
  POST https://iadsdk.apple.com/adserver/2.6/optout/optout_optin
Headers
  storefront: 143449-2,29
  bundleID: com.apple.ap.adprivacyd
  User-Agent: iPhone10,4; Version 13.6.1 (Build 17G80); com.apple.ap.adprivacyd; 143449-2,29
  device: iPhone10,4
  POST body
  \x00\x00\x00\x08\x00\x00\x01\x1c\n\x80\x02J\xa3\xfb\xcaS\x18\x9b\x9e\x85\xdd\tAQ\x04\xac\x2R\x98\x08\xb2\xedt\x14\xdb\x97\x11\xfbJv\x1d3\xebV\x8a\x1f1-\x98\x06\x9Q\x87\x8e\x83\x98:\xd4N\x1b4O\rC\x9e\xa8\x99\x80E\xce\x95\xfaAg\|W\x18\x1e\xa1\xcb\ryQ&Z6\xdc\x2f\x10\x1b\x1f1'\x9c1'\x89\xcbg\x858'\xa2\x2f\x81\x1b4\x83\x8b\x12A\x2d\x14\x14\x00\x8c\x84\x1d1\x8bize-\x8a\x8b\xfd\x9Si_ih\x89\x0b\x9fz\x8c##\x0eMC[\x9c\x8aa-\xcd\x99R\x8b-\xc1\x96\xa1\xca\x2b\x27\x2f\x2f\x9\x0ck\x14-\x18\xfe\xbb\x2c\x4a5\x7f\x2d\x16\x2f\x91\x90\x81d\x1c1\x10\Pi\x8e4.i\xcf'\k\xa5\x8b\x91\x1f\xa5\x90SbD\r\x2b6\xfa\xde y\|xe+\xb2\x9bL\xaf$\xa5\x27\x8e4b,h\x2d8;\xab\x0e\x2b0U\x2d6_a\x15\x04[h\x28\x2d_\x19\x27\xea\x96.\x10HI\x2c80j\xa3e-\x29\x2f\x2c8\x2b\x2+\rq'i\x0e\x16q\xa0\x2b''?\x10\x00\x19\x00\x00\x80N\x2d\x2f\x2d7A-\x00\x00\x00\x00

```













```

34: 189973
38: 190015
39: 190015
40: 190036
41: 190039
42: 189960
}
}
}
200 {
37 {
1: 989446
2: 4
}
}
}

```

Its not clear what this content is but it seems likely that it is telemetry data e.g. histogram data for WiFi interface en0.

The following connections to mesu.apple.com appear to be checking for updates, no identifiers are sent.

```

GET https://mesu.apple.com/assets/
com_apple_MobileAsset_ProactiveEventTrackerAssets/
com_apple_MobileAsset_ProactiveEventTrackerAssets.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 304, 0.00B
GET https://mesu.apple.com/assets/com_apple_MobileAsset_ContextKit/
com_apple_MobileAsset_ContextKit.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 304, 0.00B
GET https://mesu.apple.com/assets/com_apple_MobileAsset_DeviceCheck/
com_apple_MobileAsset_DeviceCheck.xml
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
<<<< HTTP 304, 0.00B
GET https://mesu.apple.com/assets/
com_apple_MobileAsset_MobileIdentityService_DenyList/
com_apple_MobileAsset_MobileIdentityService_DenyList.xml
Headers
  User-Agent: MobileAsset/1.1
<<<< HTTP 200, 2.25KB

```

When a sim is inserted into the handset the following connection is made:

```

POST https://albert.apple.com/deviceservices/activity/
phoneNumberSimNotification
Headers
  User-Agent: CommCenter/7581 CFNetwork/1128.0.1 Darwin/19.6.0
POST body
<?xml version="1.0" encoding="UTF-8"?>
<DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.
apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>InternationalMobileEquipmentIdentity</key>
  <string>356765081821496</string>
  <key>InternationalMobileSubscriberIdentity</key>
  <string>2721101</string>
  <key>PhoneNumber</key>
  <string>089...97590</string>
  <key>SerialNumber</key>
  <string>C8PVCB1HJC67</string>
  <key>UniqueDeviceID</key>
  <string>7c2694081d97b76276733f2dbf49871412dc5bc5</string>
>
</dict>
</plist>
<<<< HTTP 200, 0.00B

```

When the user is logged out and location is enabled the following additional handset network connections are made:

- 1) Connections to gsp10-ssl.apple.com share the device location (latitude and longitude) and also the MAC addresses of nearby devices sharing the same WiFi network.
- 2) A connection to api-glb-dub.smoot.apple.com sends a X-Apple-FuzzedLatLong header with the approximate device location (latitude and longitude) .

Connection details:

```

POST https://gsp10-ssl.apple.com/hcy/pbcwloc
Headers
  User-Agent: locationd/2394.0.33 CFNetwork/1128.0.1 Darwin/19.6.0
POST body
b`x00\x01\x00\x05en_US\x00\x13com.apple.locationd\x00\x0c13
.6.1.17G80\x00\x00\x00d\x00\x00\x01\x84\n\x1f\n\x06D201AP\x12\x
15iPhone OS13.6.1/17G80\x1at\n\x0ff8:4:2e:c:1c:28\x10\x0b\x18\xab\
\xff\xff\xff\xff\xff\xff\xff\xff\x01"GtSy\xd1\xed\xcc4\xa7J@\x11\x
f3\x18V\xed\x053\x19\xcc0\x1d\x1f3\x04\x00C-;&\xf5A5\x00\x00@@I5
\xc5\xf8\x7fj\xb6\xc2Ah\x01\x80\x01\x00\x88\x01\x00\x92\x01\x
04\x08\x01\x10\x02\x9a\x01\x04\x08\x01\x10\x02\xa2\x01\x04\x
08\x01\x10\x02*\x008\x00A\x17\x7f\xa3\x80J\xb6\xc2A\x1at\n\x
0f8c:4:ff:13:2:9e\x10\x01\x18\xb7\xff\xff\xff\xff\xff\xff\xff\xff\x01
"GtSy\xd1\xed\xcc4\xa7J@\x11\x1f3\x18V\xed\x053\x19\xcc0\x1d\x1f3
\x04\x00C-;&\xf5A5\x00\x00@@I5\xc5\xf8\x7fj\xb6\xc2Ah\x01\x
80\x01\x00\x88\x01\x00\x92\x01\x04\x08\x01\x10\x02\x9a\x01\x
04\x08\x01\x10\x02\xa2\x01\x04\x08\x01\x10\x02*\x008\x00A\x0f
\x10\x01\x04\x08\x01\x10\x02\xa2\x01\x04\x08\x01\x10\x02*\x008\x00A\x0f
\x10\x01\x04\x08\x01\x10\x02\xa2\x01\x04\x08\x01\x10\x02*\x008\x00A\x0f
\x10\x01\x04\x08\x01\x10\x02\xa2\x01\x04\x08\x01\x10\x02*\x008\x00A\x0f
\x10\x01\x04\x08\x01\x10\x02\xa2\x01\x04\x08\x01\x10\x02*\x008\x00A\x0f
<<<< HTTP 200, 12.00B

```

The binary message decodes as a protobuf to:

```

1: 1
2: 2
19 {
  1: 1
  2: 2
}
20 {
  1: 1
  2: 2
}
5: ""
7: 0
8: 0x41c2b64a80a37f17
3 {
  1: "8c:4:ff:13:2:9e"
  2: 1
  3: 18446744073709551543
  4 {
    1: 0x404aa7c4edd17953
    2: 0xc0193305ed5618f3
    3: 0x430004f3
    5: 0x41f5263b
    6: 0x40400000
    9: 0x41c2b64a7ff8c535
    13: 1
    16: 0
    17: 0
    18 {
      1: 1
      2: 2
    }
    19 {
      1: 1
      2: 2
    }
  }
}
20 {
  1: 1
  2: 2
}
5: ""

```

```

7: 0
8: 0x41c2b64a8076d30f
}
3 {
1: "f2:18:98:92:17:5"
2: 11
3: 18446744073709551584
4 {
1: 0x404aa7c4edd17953
2: 0xc0193305ed5618f3
3: 0x430004f3
5: 0x41f5263b
6: 0x40400000
9: 0x41c2b64a7ff8c535
13: 1
16: 0
17: 0
18 {
1: 1
2: 2
}
19 {
1: 1
2: 2
}
20 {
1: 1
2: 2
}
}
}
5: ""
7: 0
8: 0x41c2b64a80a89dcf
}

```

Amongst other things, the message contains the MAC addresses of devices sharing the same WiFi network as the handset. Also, the hex value 0x404aa7c4edd17953 converts to double 53.3...45802 and hex value 0xc0193305ed5618f3 to double -6.2...73063 i.e. to the latitude and longitude of the device.)

POST https://gsp10-ssl.apple.com/hvtr/crc

Headers

User-Agent: locationd/2394.0.33 CFNetwork/1128.0.1 Darwin/19.6.0

POST body

```

b'\x00\x01\x00\x05en_US\x00\x13com.apple.locationd\x00\x0c13
.6.1.17G80\x00\x00m\x00\x00\x11a\n\x1f\n\x06D201AP\x12\
x15iPhone OS13.6.1/17G80\x123\x08\x03"/\t\x00\x1c\x8f\x2\x09\
xa7J@\x11\x9a\x009/N2\x19\x00\x1d\x00\x00\x82B-4l\xa9A5\xaa\
xd6\xcdAIR`'\xfe?B\xb6\xc2Ah\x04\xe0\x01\x01\x12&\x08\x02\x1a
"/\t\x7f1\xca\xec\t\xb6\xc2A\x15\x00\x00\x00\x00\x18\x00 \x00(\
x001\x1f\x84E\xeb\t\xb6\xc2A=\x00\x00\x00\x00\x12\x17\x08\x052
\x13\t\xaf\x92(?B\xb6\xc2A\x15Y7\xc9B\x1d\x85\xeb\xa7A)\x12\
x17\x08\x052\x13\tF$ \xa0...A5eb4AI,\xd3syB\xb6\xc2Ah\x04\xe0\x01
\x01'

```

<<< HTTP 200, 10.00B

The large binary message in the post body successfully decodes as a protobuf:

```

1: 3
4 {
1: 0x404aa7c9ed772b58
2: 0xc019324ea50bf88d
3: 0x42820000
5: 0x41a851e1
6: 0x41200000
9: 0x41c2b2f67ffe3277
13: 4
28: 1
}
<...>
2 {
1: 6
7 {
1: 0x41c2b2f6804c6f50
2: "70:4d:7b:95:14:c0"
3: 3
4: 0
5: 18446744073709551545

```

6: 0x3ff22d0e56041893

}

<...>

While much of the content remains hard to interpret, it does contain the device location (latitude and longitude, when then hex values 0x404aa7c9ed772b58 and 0xc019324ea50bf88d are decoded to doubles) and also the MAC addresses of nearby devices on the same WiFi network, e.g. 70:4d:7b:95:14:c0.

GET https://api-glb-dub.smoot.apple.com/lookup\_hints\_url/en\_IE/monthly.json?disable=1&key=frigate1738&version=51

Headers

X-Apple-FuzzedLatLong: 53.311000,-6.299500

User-Agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80)

Spotlight/1

GET https://cl4.apple.com/2/m2/26/14/10/261410263769548788/cfgp.gz

Headers

user-agent: pipelined/524.0.3 CFNetwork/1128.0.1 Darwin/19.6.0

<<< HTTP 200, 1.40KB

GET https://cl5.apple.com/1/143449/v1/143/173/1430000\_1735000.gz

Headers

User-Agent: locationd/2394.0.33 CFNetwork/1128.0.1 Darwin/19.6.0

<<< HTTP 200, 5.52KB

Entering the URL mitm.it in Safari generates the following sequence of requests by Safari:

GET https://clients1.google.com/complete/search?json=t&noLabels=t&client=iphonesafari&q=mitm

GET https://clients1.google.com/complete/search?json=t&noLabels=t&client=iphonesafari&q=mitm.

GET https://clients1.google.com/complete/search?json=t&noLabels=t&client=iphonesafari&q=mitm.i

GET http://mitm.it/

interleaved with requests that echo the search terms to

api2.smoot.apple.com/search:

GET https://api2.smoot.apple.com/search?24h=1&alwaysSendTophit=off&calendar=Gregorian%20Calendar&card=1&cc=IE&esl=en&geosrc=wifi%2C73.993243&kb\_ime=en\_GB%40sw%3DQWERTY%3Bhw%3DAutomatic&key=frigate1738&latlng=53.311000,-6.299000&locale=en\_IE&q=mitm&rm=1&sil=RGVmYXVsdF8xOTAzMjM%3D&storefront=143449-2%2C29&time\_zone=Europe%2FDublin&units=SI

Headers

x-apple-geometadata: SgBQAYABA5gBAA==

x-apple-whitelisted-app-signature: 8FD3CU5YAAWVQ6PR7Z/97/A=

x-apple-userguid: 7D47E57F-AAB7-4282-95F7-72BCCEE56179

x-apple-geosession: 1519479843296389162012487010889119705994

279573956 186.382641

user-agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80) Safari/1

GET https://api2.smoot.apple.com/search?24h=1&alwaysSendTophit=off&calendar=Gregorian%20Calendar&card=1&cc=IE&esl=en&geosrc=wifi%2C73.993243&kb\_ime=en\_GB%40sw%3DQWERTY%3Bhw%3DAutomatic&key=frigate1738&latlng=53.311000,-6.299000&locale=en\_IE&q=mitm&rm=1&sil=RGVmYXVsdF8xOTAzMjM%3D&storefront=143449-2%2C29&time\_zone=Europe%2FDublin&units=SI

Headers

x-apple-geometadata: SgBQAYABA5gBAA==

x-apple-whitelisted-app-signature: 8FD3CU5YAAWVQ6PR7Z/97/A=

x-apple-userguid: 7D47E57F-AAB7-4282-95F7-72BCCEE56179

x-apple-geosession: 1519479843296389162012487010889119705994

18651935 0.767792

user-agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80) Safari/1

Later, these are followed by the following connections to smoot.apple.com:

POST https://fbs.smoot.apple.com/fb?key=frigate1738&type=FeedbackV2PB&v=2

Headers

x-apple-digest: 55e1854c3cc91d597482a10...7610

c888700b3bcd2f6508d6bbd85ba

user-agent: parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80) parsecd

/1.0

POST body is a protobuf:

1: "parsecd/1.0 (iPhone10,4; iPhone OS 13.6.1 17G80) Safari/1"

2: "7D47E57F-AAB7-4282-95F7-72BCCEE56179"

```

<...>
200 {
  15 {
    1: 11415
    2: "m"
    3: "482BDC50-A0A0-4E06-925E-50D88DCBE4BE"
    4: 1
    5: "https://clients1.google.com/complete/search?json=t&noLabels=t&client=iphonesafari&q=m"
    6 {
      1: "User-Agent"
      2: "Mozilla/5.0 (iPhone; CPU iPhone OS 13_6_1 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/13.1.2 Mobile/15E148 Safari/604.1"
    }
    7: 2
    8: 1
  }
  100: 1
}
<...>
200 {
  15 {
    1: 12191
    2: "mi"
    3: "0DE604F4-56F4-43E9-A57C-AAECF4A38598"
    4: 2
    5: "https://clients1.google.com/complete/search?json=t&noLabels=t&client=iphonesafari&q=mi"
    6 {
      1: "User-Agent"
      2: "Mozilla/5.0 (iPhone; CPU iPhone OS 13_6_1 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/13.1.2 Mobile/15E148 Safari/604.1"
    }
    7: 2
    8: 1
  }
  100: 2
}
<...>
200 {
  15 {
    1: 12540
    2: "mit"
    3: "1DA79603-3CB4-484E-B66A-CC00B08EDFB9"
    4: 3
    5: "https://clients1.google.com/complete/search?json=t&noLabels=t&client=iphonesafari&q=mit"
    6 {
      1: "User-Agent"
      2: "Mozilla/5.0 (iPhone; CPU iPhone OS 13_6_1 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/13.1.2 Mobile/15E148 Safari/604.1"
    }
    7: 2
    8: 1
  }
  100: 3
}
<...>
i.e the search autocomplete queries generated by Safari are also logged to smoot.apple.com.

```

### C. Connections When Opening AppStore and Logging In

#### Summary:

- 1) When logging in a sequence of connections are made to `gsa.apple.com/grandslam`. These act to link together the user's email address (X-Apple-I-AppleID) with the device hardware serial number, the persistent X-Mme-Device-Id (in various other messages it is referred to as the guid, `absinthe-udid`, `UniqueDeviceID`) and `ptkn`

device identifiers, the device phone number, sim IMEI and sim serial number and the X-Apple-ADSID value (which may be the device Apple advertising ID).

- 2) Although Apple telemetry is disabled in the device settings, we observe that telemetry is sent to `xp.apple.com`, apparently logging (amongst other things) events related to app store usage.

#### Connection details:

```

GET https://apps.mzstatic.com/content/appstore-ios-13/
GET https://apps.mzstatic.com/content/appstore-ios-13/
c245fc5deac7a77d50a47b330ee9c104/app-prod.js
GET https://api-edge.apps.apple.com/v1/editorial/ie/today?platform=iphone
&additionalPlatforms=appletv%2Cipad%2Cmac%2Cwatch&extend=
editorialArtwork%2CeditorialVideo%2CminimumOSVersion&include%5
Beditorial-items%5D=upsell&l=en-GB
Headers
  authorization: Bearer eyJraWQiOiJGNdEWk...isgg
  user-agent: AppStore/3.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build
/17G80 (6; dt:160) AMS/1
  cookie: itspod=28; xp_ci=3z24WhRAzByez50qzAJizn1clhAdV; xp_ab
=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lRZsLr0
The authorization: Bearer header is a jwt token that decodes to:
  "iss": "AS28R7G17M",
  "iat": 1605101729,
  "exp": 1607693729,
  "dsid": "99829848"
The dsid value is used in many subsequent connections.

```

```

GET https://is1-ssl.mzstatic.com/image/thumb/Purple114/v4/5b/2f/b5/5
b2fb510-a30c-471e-6c8f-89b3507d674d/AppIcon-0-0-1
x_U007emarketing-0-0-0-6-0-85-220.png/176x176bb-60.heic
GET https://is1-ssl.mzstatic.com/image/thumb/Features114/v4/13/90/8e
/13908e06-1ed6-8071-f03a-f9ad1e59d66a/source/750x984fin-60.heic
GET https://api-edge.apps.apple.com/v1/editorial/ie/editorial-items?ids
=1541357229%2C1540085770%2C1474736389%2C1486431186%2
C1497406977&platform=iphone&additionalPlatforms=appletv%2Cipad%2
Cmac%2Cwatch&extend=editorialArtwork%2CeditorialVideo%2
CminimumOSVersion&include%5Beditorial-items%5D=upsell&l=en-GB
Headers
  authorization: Bearer eyJraWQiOiJGNdEWk...Fv5isgg
  x-apple-client-application: com.apple.AppStore
  cookie: itspod=28; xp_ci=3z24WhRAzByez50qzAJizn1clhAdV; xp_ab
=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lRZsLr0
<<< HTTP 200, 177.06KB
GET https://is1-ssl.mzstatic.com/image/thumb/Purple124/v4/a9/63/9a/
a9639acb-5e51-a66e-d3a2-e7f435494ab1/AppIcon-0-0-1
x_U007emarketing-0-0-0-7-0-0-sRGB-0-0-0-GLES2_U002c0-512MB
-85-220-0-0.png/176x176bb-60.heic
POST https://play.itunes.apple.com/WebObjects/MZPlay.woa/wa/
signSapSetup?guid=7c2694...2dbf49871412dc5bc5
Headers
  x-apple-client-application: com.apple.AppStore
  x-apple-amd-m: 5ekJNohUcJUPIEF...j08KAL6rqPHKY
  x-apple-amd: AAAABAAAAB...XTwc+HYrejtWQyzd
  cookie: itspod=28; xp_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+
lRZsLr0; countryVerified=1; xp_ci=3z24WhRAzByez50qzAJizn1clhAdV
POST body
<...><<key>sign-sap-setup-buffer</key>
  <data>
  AQhKdD/Rk...wAA
  </data>

```

The following connection appears to send telemetry data (errors, launch of the appstore, apps displayed by appstore) to `xp.apple.com`:

```

POST https://xp.apple.com/report/2/xp_amp_appstore
Headers
  X-Apple-ActionSignature: AhVXpA/A...sAAA==
  X-Apple-Client-Application: com.apple.AppStore
  Cookie: xp_aci=4zL8F9eTyUNGNPPOsKSCICHN; xp_ab=1#Jv0scgz
+-2+7KGQkMc1#yNFpB6B+-2+lRZsLr0; xp_ci=3
z24WhRAzByez50qzAJizn1clhAdV; itspod=28
POST body

```

```
{
  "postTime":1606556339018,"events":[{"subscriptionState":"unknown",
  "storeFront":"143449","clientEventId":"DE78BCF4-12C7-4175-B8E4-53
  E2B8811A43","hardwareFamily":"iPhone","pageHistory":[],"eventTime
  ":1606556278042,"hardwareModel":"iPhone10,4","timezoneOffset":0,"
  appVersion":"3.0","storeFrontHeader":"143449-2,29 t:apps3","screenWidth
  ":375,"app":"com.apple.AppStore","capacityDataAvailable":48900,"
  eventType":"page","pageType":"AppStoreError","pixelRatio":2,"capacityData
  ":54900,"osVersion":"13.6.1","clientBuildType":"seed","capacityDisk
  ":61000,"eventVersion":1,"page":"Error","screenHeight":667,"topic":"
  xp_amp_appstore","resourceRevNum":"19.0.1605656712+sha.d9c281c0","os
  ":"iOS","osBuildNumber":"17G80","connection":"WiFi","clientId":"3
  z24WhRAzByez50qzAJizn1clhAdV","errorDescription":"A server with the
  specified hostname could not be found.,"errorType":"
  AsyncObjectGraphError","language":"2","baseVersion":1,"capacitySystem
  ":6000,"xpSendMethod":"jet-js","capacitySystemAvailable":0}<...>
  {"subscriptionState":"unknown","storeFront":"143449","clientEventId":"9
  A7A6865-C33D-4287-B1F0-CE8648AC051A","hardwareFamily":"iPhone
  ","eventTime":1606556278112,"hardwareModel":"iPhone10,4","
  timezoneOffset":0,"appVersion":"3.0","storeFrontHeader":"143449-2,29 t:
  apps3","type":"launch","screenWidth":375,"osLanguages":["en-IE"],"
  capacityDataAvailable":48900,"eventType":"enter","app":"com.apple.
  AppStore","pixelRatio":2,"capacityData":54900,"osVersion":"13.6.1","
  clientBuildType":"seed","capacityDisk":61000,"eventVersion":1,"
  screenHeight":667,"topic":"xp_amp_appstore","resourceRevNum
  ":"19.0.1605656712+sha.d9c281c0","os":"iOS","osBuildNumber":"17G80","
  connection":"WiFi","pageContext":"Today","clientId":"3
  z24WhRAzByez50qzAJizn1clhAdV","language":"2","baseVersion":1,"
  capacitySystem":6000,"xpSendMethod":"jet-js","capacitySystemAvailable
  ":0}<...>
  <...>
```

GET https://is3-ssl.mzstatic.com/image/thumb/Purple114/v4/d1/42/55/d142554b-6466-86f3-6324-ec4ad0eb8350/AppIcon-0-0-1x\_U007emarketing-0-0-0-9-0-0-sRGB-0-0-0-GLES2\_U002c0-512MB-85-220-0-0.png/176x176bb-60.heic

The following calls to the grand slam endpoint carry out the user login:

GET https://gsa.apple.com/grandslam/GsService2/lookup/001029-05-981113ec-d429-4577-a19f-fdd9eabca682

Headers

```
X-MME-Country: IE
X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <
com.apple.akd/1.0 (com.apple.akd/1.0)>
X-Mme-Device-Id: 7c2694081d97b76276733f2dbf49871412dc5bc5
User-Agent: akd/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
```

GET https://gsa.apple.com/grandslam/GsService2/fetchAuthMode

Headers

```
X-Apple-I-Device-Configuration-Mode: 0
User-Agent: akd/1.0 CFNetwork/1128.0.1 Darwin/19.6.0
X-Apple-I-UrlSwitch-Info: MDAXMDI5LTA1LTk4M...
jpmZXRjaEF1dGhNb2Rl
X-Mme-Device-Id: 7c2694081d...1412dc5bc5
X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <
com.apple.akd/1.0 (com.apple.akd/1.0)>
X-Apple-I-DeviceUserMode: 0
X-Apple-I-SRL-NO: C8PVCB1HJC67
X-Apple-I-MD-RINFO: 17106176
X-Apple-Client-App-Name: AppStore
X-Apple-AK-Context-Type: itunes
X-Apple-I-AppleID: doug.leith@ted.ie
X-Apple-I-MD-M: 5ekJNohUcJUPIEFYF...Qe75pPzhHYjL2Z
X-Apple-I-MD: AAAABQAAA...xaens2AAAAAw==
```

<<<< HTTP 200, 320.00B

POST https://gsa.apple.com/grandslam/GsService2

POST body

```
<...> <key>A2k</key>
<data>
OOKrwnv...cQ1jA== Client public key
</data>
<key>cpd</key>
<dict>
  <key>AppleIDClientIdentifier</key>
  <string>4C635624-...390384F89EA</string>
```

Apple ID of current user?

```
<key>X-Apple-I-Client-Time</key>
<string>2020-11-28T09:39:13Z</string>
<key>X-Apple-I-Device-Configuration-Mode
```

</key>

```
<string>0</string>
<key>X-Apple-I-MD</key>
<string>
```

AAAABQAAAABD00...aens2AAAAAw==</string> Anisette oneTimePassword

```
<key>X-Apple-I-MD-M</key>
<string>5ekJNohUcJUPIEFYFr...jL2Z</string>
```

> Anisette machineID

```
<key>X-Apple-I-MD-RINFO</key>
<string>17106176</string> Anisette routingInfo
<key>X-Apple-I-SRL-NO</key>
<string>C8PVCB1HJC67</string> Hardware
```

serial number

```
<key>X-Apple-MD</key>
<string>AAAABAA...mGdh</string>
<key>X-Apple-MD-M</key>
<string>5ekJNohUcJUPI...0wjtMjmtL8E16</
```

string>

```
<key>X-Mme-Device-Id</key>
<string>7c2694081...1412dc5bc5</string>
```

Persistent Device

Id

```
<...> <key>ptkn</key>
<string>7534B939DCC...096E2750CB0FD0</
```

string>

```
<...> <key>u</key>
```

```
<string>001029-05-9811...9f-fdd9eabca682</string>
```

POST https://gsa.apple.com/grandslam/GsService2

POST body

<as above>

GET https://gsa.apple.com/auth/verify/trusteddevice

Headers

```
X-Apple-I-Phone: W3sic2xvdEIE...Cl6dHJ1ZX1d
X-Apple-I-CFU-State: PD94bWwgdMvy...0Pgo=
X-Mme-Device-Id: 7c269408...871412dc5bc5 Persistent Device Id
X-Apple-Identity-Token: MDAXMDI5LTA1LTk...BPQ==
X-Apple-I-Device-PN: KzM1M...5NzU5MA== Handset phone
number, base64 encoded
X-Apple-I-MD-RINFO: 17106176
X-Apple-Security-Upgrade-Context: com.apple.authkit.generic
X-Apple-Client-App-Name: AppStore
X-Apple-AK-Context-Type: itunes
X-Apple-I-MD-M: 5ekJNohUcJUPIEFYFrRt5P...hIYjL2Z Anisette
machineID
```

```
X-Apple-I-MD: AAAABQAAAABD...axaens2AAAAAw==
```

<<<< HTTP 200, 3.77KB

```
Set-Cookie: aa=F25060C96A...0EA7991B3E47; Domain=gsa.apple.com;
Path=/; Secure; HttpOnly, site=IRL; Domain=apple.com; Path=/; Secure;
HttpOnly
```

The X-Apple-I-Device-PN header decodes to the handset phone number.

Observe that the response sets a cookie.

POST https://gsa.apple.com/auth/verify/trusteddevice/securitycode

Headers

```
X-Mme-Device-Id: 7c2694081d97...bf49871412dc5bc5
Cookie: site=IRL; aa=F25060C96A7F...EA7991B3E47
X-Apple-I-MD-M: 5ekJNohUcJUPIE...e9BjNJQe75pPzhHYjL2Z
X-Apple-I-MD: AAAABQAAAABBJ...Q14AAAAAw==
X-Apple-I-Phone: W3sic2xvd...dHJ1ZX1d
X-Apple-Identity-Token: MDAXMD...JBQP==
X-Apple-I-Device-PN: KzM1...5NzU5MA==
X-Apple-I-MD-RINFO: 17106176
X-Apple-I-CFU-State: PD94bW...o8L3BSaXN0Pgo=
```

POST https://gsas.apple.com/grandslam/GsService2/postdata

Headers

```
X-Apple-I-UrlSwitch-Info: MDAXMD...3N0RGF0YQ==
X-Apple-HB-Token: MDAXMD...NjVRPT0=
X-Mme-Device-Id: 7c2694081d97...871412dc5bc5
X-MME-Client-Info: <iPhone10,4> <iPhone OS;13.6.1;17G80> <
com.apple.akd/1.0 (com.apple.akd/1.0)>
X-Apple-I-MD-RINFO: 17106176
X-Apple-I-SRL-NO: C8PVCB1HJC67
X-Apple-I-MD-M: 5ekJNohUcJUPI...JQe75pPzhHYjL2Z
X-Apple-I-MD: AAAABQAAA...E7j4C18AAAAAw==
```

POST body

<contains device serial number, sim IMEI and serial number, phone



number and device ptkn identifier.>

The X-Apple-I-UrlSwitch-Info is base64 encoded and decodes to: 001029-05-981113ec-d429-4577-a19f-fdd9eabca682;postData which is the x-apple-adsid value. The X-Apple-HB-Token is also base64 encoded and decodes to:

001029-05-981113ec-d429-4577-a19f-fdd9eabca682: AAAABLwIAAAAF9KjCERCcmdzLmlkbXMuaGK9AJkkTAFYbHylNC0x+hVJdIqOjFUE+bG+

RabTjXvZEtrgsCTP7UREAoAtXxzEg7mbumRuOa6eLS8LQcRUMDLTR6PTrc

/AB5eDmNTvhXAs5H8EY3kzoq591f04V2a6eGCTSkBvsXR0eSQPW2esICGX2BEAC

i.e. also to the x-apple-adsid plus a second base64 encoded string which decodes to binary.

GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&deviceClass=iPhone&product=com.apple.accounts&productVersion=113&profile=Accounts&profileVersion=1&format=json&storefront=143449-2,29  
**cookie:** itspod=28; xp\_ci=3z24WhRAz...lclhAdV; xp\_ab=1#Jv0scgz

+2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0  
 POST https://play.itunes.apple.com/WebObjects/MZPlay.woa/wa/signSapSetup?guid=7c269408...71412dc5bc5  
 x-apple-amd-m: 5ekJNohUcJUP1EFYFrR...fYaE+gXj08KAL6rqpHKY  
 x-apple-amd: AAAABAAAA...lRnoxm8CISN  
**cookie:** itspod=28; xp\_ab=1#Jv0s...Jizn1clhAdV

POST https://p28-buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/authenticate?guid=7c2694081d97...bf49871412dc5bc5  
 Headers

**Cookie:** itspod=28; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0; countryVerified=1; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV  
 X-DSID: 99829848

X-Apple-Client-Application: com.apple.accountsd  
 X-Apple-AMD-M: 5ekJNohUcJUP1EFYFrR...AL6rqpHKY  
 X-Apple-AMD: AAAABAAAA...8CISN  
 X-Apple-I-MD-RINFO: 17106176  
 X-Apple-ADSID: 001029-05-9...19f-fdd9eabca682  
 X-Apple-ActionSignature: AjlJ9G...EEQwsAAA==  
 X-Apple-I-MD-M: 5ekJNohUcJUP1EF...Qe75pPzhHYjL2Z  
 X-Apple-I-MD: AAAABQAA...Tj4C18AAAAAw==

POST body  
 <...> <key>appleId</key>  
 <string>doug.leith@tcd.ie</string>  
 <key>createSession</key>  
 <true/>  
 <key>guid</key>  
 <string>7c2694081d...871412dc5bc5</string>

<...>  
 POST https://p2-buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/authenticate?guid=7c2694081d97b7...871412dc5bc5&Pod=2&PRH=2  
 Repeats previous connection.

GET https://is3-ssl.mzstatic.com/image/thumb/Features124/v4/b3/1b/ef/b31befda-cb1b-40dd-b1a7-ba97f49831e3/source/750x984fn-60.heic

Further telemetry sent to xp.apple.com:

POST https://xp.apple.com/report/2/xp\_amp\_appstore  
 Headers

X-Apple-ActionSignature: Anq+EL...QwsAAA==  
**Cookie:** xp\_aci=4zL8F9eTyUNGNPPOsKSCICHn; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV; itspod=28

POST body  
 {"postTime":1606556377214,"events":[{"osVersion":"13.6.1","eventVersion":1,"language":"2","eventType":"exit","topic":"xp\_amp\_appstore","hardwareFamily":"iPhone","appVersion":"3.0","capacityData":54900,"screenHeight":667,"storeFront":"143449","baseVersion":1,"os":"iOS","clientBuildType":"seed","storeFrontHeader":"143449-2,29 t:apps3","eventTime":1606556377134,"pageContext":"Today","pixelRatio":2,"connection":"WiFi","capacitySystem":6000,"capacitySystemAvailable":0,"osBuildNumber":"17G80","subscriptionState":"unsubscribed","capacityDisk":61000,"capacityDataAvailable":48900,"screenWidth":375,"clientId":"3z24WhRAzByez50qzAJizn1clhAdV","resourceRevNum":"19.0.160656712+sha.d9c281c0","xpSendMethod":"jet-js","hardwareModel":"iPhone10,4","timezoneOffset":0,"clientEventId":"2C0A38DA-0567-42D8-8BD7-186004834D58","app":{"com.apple.AppStore"}],"deliveryVersion":1}

GET http://init-p01md.apple.com/bag

POST https://xp.apple.com/report/2/xp\_amp\_appstore

Headers

X-Apple-ActionSignature: AuaiywEd...QwsAAA==  
**Cookie:** xp\_aci=4zL8F9eTyUNGNPPOsKSCICHn; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV; itspod=28

POST body  
 <telemetry>

POST https://xp.apple.com/report/2/xp\_amp\_appstore

X-Apple-ActionSignature: A18jVQVqWFI2jQ...wsAAA==  
**Cookie:** xp\_aci=4zL8F9eTyUNGNPPOsKSCICHn; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV; itspod=28  
 POST body  
 <telemetry>

The handset now makes a series of connections to itunes.apple.com:

GET https://sf-api-token-service.itunes.apple.com/apiToken?osVersion=13.6.1&os=iOS&clientId=appstore&productVersion=3.0&version=2

Headers

x-apple-actionsignature: AqtrDQkQx...AA==  
 x-apple-i-md-m: 5ekJNohUcJUP1EFYFrR...JQe75pPzhHYjL2Z  
 x-apple-i-md: AAAABQAAA...C18AAAAAw==  
 x-apple-adsid: 001029-05-9811...fdd9eabca682  
 user-agent: AppStore/3.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1  
 x-dsid: 99829848  
**cookie:** X-Dsid=99829848; mz\_at\_ssl-9...VFuHC2oM

<<< HTTP 200, 264.00B

GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&deviceClass=iPhone&product=com.apple.appstore&productVersion=1.0&profile=appstore&profileVersion=1&format=json&storefront=143449-2,29  
 Headers

**cookie:** itspod=28; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0

GET https://setup.icloud.com/configurations/init?context=settings  
 Headers

X-Apple-I-MD-M: 5ekJNohUcJUP1E...BjNjQe75pPzhHYjL2Z  
 X-Apple-I-MD: AAAABQAAA...ETj4C18AAAAAw==  
 User-Agent: accountsd/113 CFNetwork/1128.0.1 Darwin/19.6.0  
 X-Apple-I-MD-RINFO: 17106176

GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&deviceClass=iPhone&product=com.apple.AppleMediaServices&productVersion=1.0&profile=Accounts&profileVersion=1&format=json&storefront=143449-2,29  
 Headers

user-agent: com.apple.AppleMediaServices/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1  
**cookie:** itspod=28; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrdZsLr0

GET https://s.mzstatic.com/sap/setupCert.plist

Headers

x-apple-i-md-rinfo: 17106176  
 x-apple-store-front: 143449-2,29  
 x-apple-i-md-m:  
 5ekJNohUcJUP1EFYFrR...3e9BjNjQe75pPzhHYjL2Z  
 x-apple-i-md: AAAABQAAA...4C18AAAAAw==  
 user-agent: itunescloudd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160)  
 x-apple-connection-type: WiFi  
 x-dsid: 99829848

GET https://play.itunes.apple.com/WebObjects/MZPlay.woa/wa/fsEntitlementsSrv?segment=AppStore&guid=7c2694081...1412dc5bc5  
 Headers

x-dsid: 99829848  
 x-apple-amd-m: 5ekJNohUcJUP1EFYFrR...fYaE+gXj08KAL6rqpHKY  
 x-apple-amd: AAAABAAAA...xm8CISN  
 x-apple-i-md-rinfo: 17106176  
 x-apple-adsid: 001029-05-9811...9eabca682  
 x-apple-i-md-m: 5ekJNohUcJUP1E...NjQe75pPzhHYjL2Z  
 x-apple-i-md: AAAABQAA...j4C18AAAAAw==  
**cookie:** ns-mzf-inst=106-52-443-57-3...lrdZsLr0

GET https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en\_IE  
 Headers

x-apple-i-md-rinfo: 17106176  
 x-apple-store-front: 143449-2,29  
 x-apple-i-md-m:

**5ekJNohUcJUPIEFYFrR...e9BjNJQe75pPzhHYjL2Z**

x-apple-i-md: AAAABQAAA...C18AAAAAw==  
 user-agent: itunescloudd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015  
 build/17G80 (6; dt:160)

**GET** https://play.itunes.apple.com/WebObjects/MZPlay.woa/wa/  
 fsEntitlementsSrv?segment=AppStore&guid=7c269408...871412dc5bc5

## Headers

x-dsid: 99829848  
 x-apple-amd-m: 5ekJNohUcJUPIEFYFrRt5P+...gXj08KAL6rqpHKY  
 x-apple-amd: AAAABAAAA...8CISN  
 x-apple-i-md-rinfo: 17106176  
 x-apple-adsid: **001029-0...9eabca682**  
 x-apple-i-md-m: **5ekJNohUcJUPIEFYFr...75pPzhHYjL2Z**  
 x-apple-i-md: **AAAABQAA...j4C18AAAAAw==**  
**cookie:** ns-mzf-inst=106-52-4...ZsLr0

**POST** https://play.itunes.apple.com/WebObjects/MZPlay.woa/wa/  
 signSapSetup?guid=7c2694...2dbf49871412dc5bc5

## Headers

x-apple-amd-m: 5ekJNohUcJUPIEFY...6rqpHKY  
 user-agent: com.apple.appstore/1.0 iOS/13.6.1 model/iPhone10,4 hwp/  
 t8015 build/17G80 (6; dt:160) AMS/1  
 x-apple-amd: AAAABAAAA...oxm8CISN  
**cookie:** itspod=28; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+  
 lrDZsLr0; countryVerified=1; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV

**GET** https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en\_IE

## Headers

x-dsid: 99829848  
**cookie:** X-Dsid=99829848; mz\_...HC2oM

**POST** https://setup.icloud.com/setup/iosbuddy/loginDelegates

## Headers

X-Apple-I-MD-RINFO: 17106176  
 Device-UDID: **7c2694081d...71412dc5bc5**  
 X-Apple-I-MD-M: **5ekJNohUcJUPIEFYFr...JQe75pPzhHYjL2Z**  
 X-Apple-I-MD: **AAAABQAA...Tj4C18AAAAAw==**  
 User-Agent: accountsd/113 CFNetwork/1128.0.1 Darwin/19.6.0

## POST body

```
<...> <key>apple-id</key>
<string>doug.leith@tcd.ie</string>
<key>client-id</key>
<string>F1186874-4C...CB860</string>
```

## &lt;...&gt;

**POST** https://play.itunes.apple.com/WebObjects/MZPlay.woa/wa/  
 signSapSetup?guid=7c269408...9871412dc5bc5

## Headers

x-apple-md: AAAABAAAAABA...R+qPkp1  
 x-dsid: **99829848**  
 x-apple-md-m: 5ekJNohUcJUPIEFYFr...ldbXS52V0wjtMjmtL8EI6  
 x-apple-amd: AAAABAAAA...1Rnoxm8CISN  
 x-apple-amd-m: 5ekJNohUcJUPI...E+gXj08KAL6rqpHKY  
 x-apple-i-md-rinfo: 17106176  
 x-apple-i-md-m: **5ekJNohUcJUPI...q9IF3e9BjNJQe75pPzhHYjL2Z**  
 x-apple-i-md: **AAAABQAA...4C18AAAAAw==**  
**cookie:** ns-mzf-inst=106-52-...+lrDZsLr0

**POST** https://play.itunes.apple.com/WebObjects/MZPlay.woa/wa/  
 signSapSetup?guid=7c2694081d...bf49871412dc5bc5

## Headers

x-apple-amd-m:  
**5ekJNohUcJUPI...k7GKNOZsUlfYaE+gXj08KAL6rqpHKY**  
 user-agent: com.apple.AppleMediaServices/1.0 iOS/13.6.1 model/  
 iPhone10,4 hwp/t8015 build/17G80 (6; dt:160) AMS/1  
 x-apple-amd: AAAABAAA...Vs1Rnoxm8CISN  
**cookie:** itspod=28; xp\_ab=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+  
 lrDZsLr0; countryVerified=1; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV  
**GET** https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&  
 deviceClass=iPhone&product=com.apple.ap.adprivacyd&productVersion  
 =1.0&profile=adprivacyd&profileVersion=1&format=json&storefront  
 =143449-2,29

## Headers

user-agent: com.apple.ap.adprivacyd/1.0 iOS/13.6.1 model/iPhone10,4  
 hwp/t8015 build/17G80 (6; dt:160) AMS/1

**cookie:** itspod=28; xp\_ci=3z24WhRAzByez50qzAJizn1clhAdV; xp\_ab  
 =1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

**POST** https://p2-buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/  
 pendingApps?guid=7c26940...3f2dbf49871412dc5bc5

## Headers

**Cookie:** ns-mzf-inst=106-52-443-57-3...-2+lrDZsLr0  
 X-DSID: **99829848**

X-Apple-AMD-M:

**5ekJNohUcJUPIEFYFrRt5P...ZsUlfYaE+gXj08KAL6rqpHKY**

X-Apple-AMD: AAAABAAAAABD...oxm8CISN  
 X-Apple-I-MD-RINFO: 17106176  
 X-Apple-ADSID: **001029-05-981113...d9eabca682**  
 X-Apple-I-MD-M:

**5ekJNohUcJUPI...bV1q9IF3e9BjNJQe75pPzhHYjL2Z**

X-Apple-I-MD: AAAABQAAA...Tj4C18AAAAAw==

## POST body

```
<...>
<key>guid</key>
<string>7c269408...12dc5bc5</string>
```

## &lt;...&gt;

**GET** https://xp.apple.com/register

## Headers

X-Apple-I-MD-RINFO: 17106176  
 X-Apple-I-MD-M: **5ekJNohUcJUPIEFY...jNJQe75pPzhHYjL2Z**  
 User-Agent: itunesstored/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015  
 build/17G80 (6; dt:160)  
 X-Apple-I-MD: **AAAABQAA...Tj4C18AAAAAw==**  
 X-Dsid: **99829848**

**Cookie:** X-Dsid=99829...FuHC2oM

**POST** https://pd.itunes.apple.com/WebObjects/MZPurchaseDaap.woa/  
 purchase/databases/101/update

## Headers

x-dsid: **99829848**  
 x-fm-dsid: **99829848**  
 x-apple-i-md-rinfo: 17106176  
 x-apple-adsid: **001029-05-981...9f-fdd9eabca682**  
 x-apple-actionsignature: AsETUTS2...AAA==  
 x-apple-i-md-m:

**5ekJNohUcJUPIE...V1q9IF3e9BjNJQe75pPzhHYjL2Z**

x-apple-i-md: AAAABQAAA...4C18AAAAAw==

**cookie:** ns-mzf-inst=106-52-44...DZsLr0

**POST** https://pd.itunes.apple.com/WebObjects/MZPurchaseDaap.woa/iap/  
 databases/201/update

## Headers

x-dsid: **99829848**  
 x-apple-i-md-rinfo: 17106176  
 x-apple-adsid: **001029-05-981...f-fdd9eabca682**  
 x-apple-actionsignature: AizKGYd...AAA==  
 x-apple-i-md-m: **5ekJNohUcJ...9IF3e9BjNJQe75pPzhHYjL2Z**  
 x-apple-i-md: **AAAABQAA...j4C18AAAAAw==**  
**cookie:** ns-mzf-inst=106-52-4...ZsLr0

**GET** https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en\_IE

## Headers

x-dsid: **99829848**  
**cookie:** X-Dsid=99829848; mz\_at...VFuHC2oM

**GET** https://p2-buy.itunes.apple.com/WebObjects/MZFastFinance.woa/wa/  
 checkEBookDownloadQueue?guid=7c2694081d97b...871412dc5bc5

## Headers

**Cookie:** ns-mzf-inst=106-52-4...DZsLr0  
 X-Dsid: **99829848**  
 X-Apple-AMD-M: 5ekJNohUcJUPIEFYFrR...ZsUlfYaE+  
 gXj08KAL6rqpHKY

X-Apple-AMD: AAAABAAA...noxm8CISN

X-Apple-I-MD-RINFO: 17106176

X-Apple-Connection-Type: WiFi

X-Apple-I-MD-M:

**5ekJNohUc...tbV1q9IF3e9BjNJQe75pPzhHYjL2Z**

X-Apple-I-MD: AAAABQAAAAB...C18AAAAAw==

**POST** https://pd.itunes.apple.com/WebObjects/MZPurchaseDaap.woa/  
 purchase/update?query=('com.apple.itunes.extended%5C-media%5C-kind  
 :1','com.apple.itunes.extended%5C-media%5C-kind:2','com.apple.itunes.  
 extended%5C-media%5C-kind:8','com.apple.itunes.extended%5C-media  
 %5C-kind:32','com.apple.itunes.extended%5C-media%5C-kind:64','com.  
 apple.itunes.extended%5C-media%5C-kind:32770','com.apple.itunes.  
 extended%5C-media%5C-kind:65536','com.apple.itunes.extended%5C-  
 media%5C-kind:4194304')

## Headers

x-dsid: **99829848**  
 x-guid: **7c2694081d9...9871412dc5bc5**  
 x-apple-i-md-rinfo: 17106176  
 x-apple-actionsignature: Aq+cEHd...AAAAAEEQwsAAA==  
 x-apple-i-md-m: **5ekJNohUcJUPI...e9BjNJQe75pPzhHYjL2Z**  
 x-apple-i-md: **AAAABQAAAAB...18AAAAAw==**  
**cookie:** ns-mzf-inst=106-52-443-...lrDZsLr0

**POST** https://cf.iad.sdk.apple.com/adserver/2.6/config  
**GET** http://init.ess.apple.com/WebObjects/VcInit.woa/wa/getBag?ix=3  
 Headers

User-Agent: server-bag [iPhone OS,13.6.1,17G80,iPhone10,4]  
 <<< HTTP 200, 27.26KB  
**POST** https://p2-buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/registerSuccess?guid=7c2694081d97b...871412dc5bc5  
 Headers

**Cookie:** ns-mzf-inst=106-...+lrDZsLr0  
 X-DSID: 99829848  
 X-Apple-AMD-M: 5ekJNohUcJUP1EFY...Xj08KAL6rqpHKY  
 X-Apple-AMD: AAAAB...xm8CISN  
 X-Apple-I-MD-RINFO: 17106176  
 X-Apple-ADSID: 001029-05-9...19f-fdd9eabca682  
 X-Apple-ActionSignature: AnbVnwJeF...CwAA  
 X-Apple-I-MD-M: 5ekJNohUcJUP...5pPzhhiYjL2Z  
 X-Apple-I-MD: AAAABQAAA...AAAAAw==

POST body  
 <...> <key>guid</key>  
 <string>7c269...71412dc5bc5</string>  
 <key>serial-number</key>  
 <string>C8PVCB1HJC67</string>  
 <...>

**POST** https://se2.itunes.apple.com/WebObjects/MZStoreElements2.woa/wa/inAppMessagesSync  
 Headers

x-dsid: 99829848  
 x-apple-i-md-rinfo: 17106176  
 x-apple-actionsignature: AiaDtpANdB1...AAAAEEQwsAAA==  
 x-apple-connection-type: WiFi  
 x-apple-i-md-m: 5ekJNohUcJUP1E...e9BjNjQe75pPzhhiYjL2Z  
 x-apple-i-md: AAAABQAA...Tj4C18AAAAAw==  
**cookie:** ns-mzf-inst=106-52-443-57-36-9...sLr0

POST body is protobuf:  
 1: 0  
 2: 99829848  
 3: "7c2694081d97b7...871412dc5bc5"  
 4: 0

**GET** https://p2-buy.itunes.apple.com/WebObjects/MZFastFinance.woa/wa/checkDownloadQueue?guid=7c2694081d97b7...871412dc5bc5  
 Headers

**Cookie:** ns-mzf-inst=106-52-443-...ZsLr0  
 X-Dsid: 99829848...1EFYFrRt5P+  
 FVGGP3BPvjGlc9S73de24kqgoJpk7GKNOZsUifYaE+gXj08KAL6rqpHKY  
 X-Apple-AMD: AAAAB...Rnoxm8CISN  
 X-Apple-I-MD-RINFO: 17106176  
 X-Apple-Connection-Type: WiFi  
 X-Apple-I-MD-M: 5ekJNohUcJUP1...Qe75pPzhhiYjL2Z  
 X-Apple-I-MD: AAAABQAA...18AAAAAw==

**POST** https://p2-buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/registerSuccess  
 Headers

**Cookie:** ns-mzf-inst=106-5...+lrDZsLr0  
 X-Dsid: 99829848  
 X-Apple-AMD-M: 5ekJNohUcJUP1...gXj08KAL6rqpHKY  
 X-Apple-AMD: AAAAB...noxm8CISN  
 X-Apple-I-MD-RINFO: 17106176  
 X-Apple-ActionSignature: Ar20g8/8KD+h1Klc...wsAAA==  
 X-Apple-Connection-Type: WiFi  
 X-Apple-I-MD-M: 5ekJNohUcJ...JQe75pPzhhiYjL2Z  
 X-Apple-I-MD: AAAABQ...C18AAAAAw==

POST body  
 <...> <key>guid</key>  
 <string>7c2694081d97b7...412dc5bc5</string>  
 <key>serial-number</key>  
 <string>C8PVCB1HJC67</string>  
 <...>

**GET** https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en\_IE  
 Headers

x-apple-i-md-rinfo: 17106176  
 x-apple-i-md-m: 5ekJNohUcJUP1EFYF...Qe75pPzhhiYjL2Z  
 x-apple-i-md: AAAABQ...AAAAAw==  
 user-agent: itunescloudd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015  
 build/17G80 (6; dt:160)

**POST** https://partiality.itunes.apple.com/WebObjects/MZPartiality.woa/wa/IAD/segment

Headers

x-apple-client-application: com.apple.ap.adprivacyd  
 x-apple-i-md-rinfo: 17106176  
 x-apple-adsid: 001029-05-981...9eabca682  
 x-apple-i-md-m: 5ekJNohUcJUP...1q9IF3e9BjNjQe75pPzhhiYjL2Z  
 x-apple-i-md: AAAABQ...C18AAAAAw==  
**cookie:** ns-mzf-inst=106-52-443-5...ZsLr0

POST body  
 {  
 "ioflag" : "1",  
 "dsid" : "99829848"  
 }

**POST** https://p2-buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/pendingApps?guid=7c2694081d...bf49871412dc5bc5  
 Headers

**Cookie:** ns-mzf-inst=106-52-443-5...ZsLr0  
 X-DSID: 99829848  
 X-Apple-AMD-M: 5ekJNohUcJU...E+gXj08KAL6rqpHKY  
 X-Apple-AMD: AAAABAA...Rnoxm8CISN  
 X-Apple-I-MD-RINFO: 17106176  
 X-Apple-ADSID: 001029-05-981...f-fdd9eabca682  
 X-Apple-I-MD-M: 5ekJNohUcJUP1EF...jNjQe75pPzhhiYjL2Z  
 X-Apple-I-MD: AAAABQ...j4C18AAAAAw==

**POST** https://iad.sdk.apple.com/adserver/2.6/optout/optout\_optin  
 Headers

bundleID: com.apple.ap.adprivacyd  
 POST body  
 b'\x00\x00\x00\x08\x00\x00\x01\x1c\n...x00\x0c0\x85\xcf5\xd7A-\x00\x00\x00\x00'

**POST** https://iad.sdk.apple.com/adserver/2.6/segment/update  
 Headers

bundleID: com.apple.ap.adprivacyd  
 POST body  
 b'\x00\x00\x00\x07\x00\x00\x01t\x12\x80\x0... \x00\xd8\x02\x01\xe0\x02\x00'

**POST** https://pd.itunes.apple.com/WebObjects/MZPurchaseDaap.woa/purchase/databases/101/items?includeItemFlavors=1  
 Headers

x-dsid: 99829848  
 x-guid: 7c2694081d97...12dc5bc5  
 client-cloud-daap-version: 1.3/17G80  
 x-apple-i-md-rinfo: 17106176  
 x-apple-actionsignature: At+RlxHJYPdDthKIFYfy...  
 AAAAAAAEEQwsAAA==  
 x-apple-connection-type: WiFi  
 x-apple-i-md-m: 5ekJNohUcJUP1E...Qe75pPzhhiYjL2Z  
 x-apple-i-md: AAAABQ...18AAAAAw==  
**cookie:** ns-mzf-inst=106-52-4...rDZsLr0

**POST** https://p2-buy.itunes.apple.com/commerce/device/addPushNotificationType  
 Headers

**Cookie:** X-Dsid=99829848; m...HC2oM  
 X-Dsid: 99829848  
 X-Apple-AMD-M:  
 5ekJNohUcJUP1...ZsUifYaE+gXj08KAL6rqpHKY  
 X-Apple-AMD: AAAABA...1Rnoxm8CISN  
 X-Apple-I-MD-RINFO: 17106176  
 X-Apple-Connection-Type: WiFi  
 X-Apple-I-MD-M: 5ekJNohUcJUP1EF...jNjQe75pPzhhiYjL2Z  
 X-Apple-I-MD: AAAABQAA...18AAAAAw==

POST body  
 <...>  
 <key>guid</key>  
 <string>7c2694081d9...9871412dc5bc5</string>  
 <key>notification-type</key>  
 <...>

**POST** https://pd.itunes.apple.com/WebObjects/MZPurchaseDaap.woa/purchase/databases/101/extra\_data/cloud-artwork-info  
 Headers

user-agent: itunescloudd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015  
 build/17G80 (6; dt:160)  
 x-dsid: 99829848  
 x-guid: 7c269408...9871412dc5bc5  
 x-apple-i-md-rinfo: 17106176  
 x-apple-actionsignature:  
 AgSK/KUFHePPC4b2H2JJSjKmkWP83DruGLq...AAAAAAAAAAAAEEQwsAAA==  
 x-apple-i-md-m: 5ekJNohUcJU...3e9BjNjQe75pPzhhiYjL2Z



```

x-apple-i-md: AAAABQA...8AAAAAw==
cookie: ns-mzf-inst=106-52-443-57....+lrDZsLr0
GET https://is2-ssl.mzstatic.com/image/thumb/Music/v4/ae/0c/e3/ae0ce355-2d9d-9d0d-fc77-a7a8e2afab94/source/628x627bb.jpg
GET https://is5-ssl.mzstatic.com/image/thumb/Music/v4/8c/74/30/8c743005-476c-bc53-2dc3-37e35e9a10c7/source/620x620bb.jpg
<and many similar connections downloading appstore content>
POST https://se2.itunes.apple.com/WebObjects/MZStoreElements2.woa/wa/inAppMessagesSync
Headers
  x-dsid: 99829848
  x-apple-i-md-rinfo: 17106176
  x-apple-actionsignature: Ag4CslQBnMKhvV6EY5CzO7M...
AAAAAEEQwsAAA==
x-apple-i-md-m: 5ekJNohUc...1q9IF3e9BjNJQe75pPzhHYjL2Z
x-apple-i-md: AAAABQA...ETj4C18AAAAAw==
cookie: ns-mzf-inst=106-52-443-...+2+lrDZsLr0
POST body protobuf:
1: 0
2: 99829848
3: "7c2694081d97...71412dc5bc5"
4: 0
GET https://apps.mzstatic.com/content/ma_7f3709c98abd549b02389d4c27b03922/b2808d3a-7e2a-4c80-ba60-61558d0f43e1.png
GET https://is4-ssl.mzstatic.com/image/thumb/Music/v4/80/bb/f0/80bbf0be-61e9-f91f-ca45-26609e2e9b9a/source/600x600bb.jpg
<and many similar connections downloading appstore content>
GET https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en_IE
Headers
  x-dsid: 99829848
  cookie: X-Dsid=99829848; m...HC2oM
GET https://is4-ssl.mzstatic.com/image/thumb/Music/v4/9d/70/3b/9d703b5d-a9ed-5981-63aa-12535593be79/source/750x750bb.jpg
GET https://is4-ssl.mzstatic.com/image/thumb/Music/v4/2e/99/a8/2e99a842-1bb3-4945-bef8-bf1575be5fc6/source/600x600bb.jpg
GET https://is2-ssl.mzstatic.com/image/thumb/Music/v4/27/a6/ff/27a6ff4b-bee6-d41c-8889-5ff927625d7c/source/750x750bb.jpg
GET https://is2-ssl.mzstatic.com/image/thumb/Music/v4/cf/09/e2/cf09e256-7109-c0b3-2e4b-dcc8877df194/source/600x600bb.jpg
GET https://sp.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.itunescloudd&id=255923216,3603<...>1883403&p=lookup&version=2
Headers
  x-apple-md: AAAABAA...xHR+qPkpl
  x-apple-md-m: 5ekJNohUcJUPIE...ifbKELdbXS52V0wjtMJmjtL8EI6
  x-apple-amd-m: 5ekJNohUcJUPIE...UifYaE+gXj08KAL6rqpHKY
  x-apple-amd: AAAABA...noxm8CISN
  x-apple-i-md-rinfo: 17106176
  x-apple-actionsignature: AvK60z9RSfb7KO...
AAAAAEEQwsAAA==
x-apple-i-md-m: 5ekJNohUcJUP...q9IF3e9BjNJQe75pPzhHYjL2Z
x-apple-i-md: AAAABQA...C18AAAAAw==
GET https://sp.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.itunescloudd&id=17628379<...>,133465526&p=lookup&version=2
Headers
  x-apple-md: AAAABAA...UxHR+qPkpl
  x-apple-md-m: 5ekJNohUcJU...XS52V0wjtMJmjtL8EI6
  x-apple-amd: AAAA...oxm8CISN
  x-apple-i-md-rinfo: 17106176
  x-apple-actionsignature: AIJ0g8zTI...AAAAAEEQwsAAA==
  x-apple-i-md-m: 5ekJNoh...Qe75pPzhHYjL2Z
  x-apple-i-md: AAAAB...C18AAAAAw==
POST https://upp.itunes.apple.com/WebObjects/MZBookkeeper.woa/wa/sync?guid=7c2694081d...12dc5bc5
Headers
  x-apple-i-md-m: 5ekJNohUcJUPIE...75pPzhHYjL2Z
  user-agent: com.apple.storebookkeeper/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160)
  x-apple-store-front: 143449-2,29
  x-dsid: 99829848
  x-apple-i-md-rinfo: 17106176
  x-apple-i-md: AAAABQA...8AAAAAw==
  cookie: ns-mzf-inst=106-52-443...ZsLr0
GET https://is2-ssl.mzstatic.com/image/thumb/Music30/v4/1d/6d/5c/1d6d5c5d-30ef-54f1-9c44-2707aff02866/source/750x750bb.jpg

```

```

GET https://is2-ssl.mzstatic.com/image/thumb/Music/v4/f6/7e/55/f67e55c0-db9e-622b-bf60-26189cfd976/source/750x752bb.jpg
GET https://is5-ssl.mzstatic.com/image/thumb/Music/v4/73/65/0c/73650c69-8a12-5718-e001-41dae461eccc/source/750x769bb.jpg
GET https://sp.itunes.apple.com/WebObjects/MZStorePlatform.woa/wa/lookup?caller=com.apple.itunescloudd&id=763104...13720456&p=lookup&version=2
Headers
  x-apple-md: AAAABA...R+qPkpl
  user-agent: itunescloudd/1.0 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build/17G80 (6; dt:160)
  x-apple-md-m: 5ekJNohUcJUPIE...0wjtMJmjtL8EI6
  x-apple-device-model: iPhone10,4
  x-apple-amd-m: 5ekJNohUcJUPIE...08KAL6rqpHKY
  x-apple-amd: AAAABAAABD...m8CISN
  x-apple-i-md-rinfo: 17106176
  x-apple-actionsignature:
AvqhDkISFXd5MqLJ5k...AAAAAEEQwsAAA==
x-apple-i-md-m: 5ekJNohUcJUPIE...75pPzhHYjL2Z
x-apple-i-md: AAAABQA...Tj4C18AAAAAw==
<<< HTTP 200, 47.36KB
GET https://is5-ssl.mzstatic.com/image/thumb/Music/v4/53/e8/52/53e8525b-b5c3-2853-83ef-2f22adde700b/source/709x654bb.jpg
GET https://is5-ssl.mzstatic.com/image/thumb/Music/v4/35/81/f1/3581f178-54f0-3617-de2f-eba452c0466c/source/750x769bb.jpg
GET https://is2-ssl.mzstatic.com/image/thumb/Music/v4/e5/b9/db/e5b9dbf6-8fcb-f550-5a28-1434f2ed11c1/source/750x744bb.jpg
GET https://is1-ssl.mzstatic.com/image/thumb/Music/v4/f3/f8/70/f3f8709e-81ee-e878-bb1b-9f3ad0bad7ca/source/750x750bb.jpg
GET https://is3-ssl.mzstatic.com/image/thumb/Features114/v4/38/4d/6b/384d6be4-cd82-f03a-caf8-84c296c60cfd/pr_source.png/750x750bb.jpg
<and many similar connections downloading appstore content>

```

#### More telemetry:

```

POST https://xp.apple.com/report/2/xp_amp_appstore
Headers
  Cookie: X-Dsid=998298...FuHC2oM
  X-DSID: 99829848
  X-Apple-I-MD-RINFO: 17106176
  X-Apple-ActionSignature: As3QhL...AAAAAEEQwsAAA==
  X-Apple-ADSID: 001029-0...9eabca682
  X-Apple-I-MD-M: 5ekJNohUcJUPIE...3e9BjNJQe75pPzhHYjL2Z
  X-Apple-I-MD: AAAABQA...InGrzG3FAAAA==
POST body
{"postTime":1606556609079,"events":[{"subscriptionState":"","unsubscribed":"","storeFront":"","143449","clientEventId":"","A1567CEA-1B85-40DD-B255-38B07A1262BD","hardwareFamily":"","iPhone","eventTime":"","1606556543571","hardwareModel":"","iPhone10,4","timezoneOffset":"","appVersion":"","3.0","storeFrontHeader":"","143449-2,29 t:apps3","type":"","taskSwitch":"","screenWidth":"","375","app":"","com.apple.AppStore","capacityDataAvailable":"","48900","eventType":"","enter","osLanguages":["en-IE"],"pixelRatio":"","2","capacityData":"","54900","osVersion":"","13.6.1","clientBuildType":"","seed","capacityDisk":"","61000","eventVersion":"","1","screenHeight":"","667","topic":"","xp_amp_appstore","resourceRevNum":"","19.0.160656712+sha.d9c281c0","osBuildNumber":"","17G80","os":"","iOS","connection":"","WiFi","pageContext":"","Today","clientId":"","324WhRAzByez50qzAJzn1clhAdV","language":"","2","baseVersion":"","1","capacitySystem":"","6000","xpSendMethod":"","jet-js","capacitySystemAvailable":"","0"},<...>
POST https://xp.apple.com/report/2/xp_amp_appstore
Headers
  Cookie: X-Dsid=99829848; xp...HC2oM
  X-DSID: 99829848
  X-Apple-I-MD-RINFO: 17106176
  X-Apple-ActionSignature: AITzEvvoZXXkm...
AAAAAEEQwsAAA==
  X-Apple-ADSID: 001029-05-981113ec-d429-4577-a19f-fdd9eabca682
  X-Apple-I-MD-M:
5ekJNohUcJUPIE...BjNJQe75pPzhHYjL2Z
  X-Apple-I-MD: AAAABQA...7NRtAAAAAw==
POST body
{"postTime":1606556648052,"events":[{"subscriptionState":"","unsubscribed":"","storeFront":"","143449","clientEventId":"","3DED3A1-B8B9-4F6B-A3AC-46868E30DBF6","hardwareFamily":"","iPhone","eventTime":"","1606556648000","hardwareModel":"","iPhone10,4","dsid":"","99829848","pageId":"","today","appVersion":"","3.0","timezoneOffset":"","0","storeFrontHeader

```





```

x-push-sig: AQE4PZX4dCUFku...Net7WXBqeZQVA==
absinthe-serv-key: AQVHBATsBAQBAAA...ZUeOEjyg6+
EWklcdibhqfTIVdA==
X-Apple-I-MD-RINFO: 17106176
x-push-nonce: AQAAAAXYOSH24fSe8AGK4K70=
x-auth-cert-0: MIIHSJC...uHbzVstzaQIA==
X-Apple-I-MD-M: 5ekJNohUcJU...e75pPzhhIYjL2Z
absinthe-message: FWjO81IAhYC...pvAP2f9S15EN4=
POST https://identity.ess.apple.com/WebObjects/TDIdentityService.woa/wa/
getDependentRegistrations
Headers
x-auth-user-id: 99829848
User-Agent: com.apple.invitation-registration [iPhone OS,13.6.1,17G80,
iPhone10,4]
x-auth-sig: AQExg...Hb8swM5e
x-push-cert: MIIc8jCCAL...JHJE=
x-push-token: dTSS0dz...DLD9A=
x-auth-cert: MIIHSJC...53f1UIog==
x-auth-nonce: AQA...qRvtl4=
X-Apple-I-MD-RINFO: 17106176
x-push-nonce: AQAAA...fVKzOAYa=
X-Apple-I-MD-M: 5ekJNohUcJUP1EFYFr...NJQe75pPzhhIYjL2Z
X-Apple-I-MD: AAAABQAA...kAAAAAw==

```

### D. Connections When Interacting With Settings App

#### Summary:

- 1) A connection is made to `idiagnostics.apple.com` that sends the handset hardware serial number
- 2) Telemetry is sent to `xp.apple.com`
- 3) The `adprivacyd` process makes connections to `cf.iadsdk.apple.com/adserver/2.6/config`, `iadsdk.apple.com/adserver/2.6/optout/optout_optin` and `bag.itunes.apple.com`. The connection to `bag.itunes.apple.com` sends a cookie.
- 4) The `geod` process makes connections to `gspe35-ssl.ls.apple.com/geo_manifest/dynamic/config`, `gsp-ssl.ls.apple.com/ab.arpc` and `gsp64-ssl.ls.apple.com/hvr/v3/use`. The latter two connections transmit binary messages which are largely opaque but which can be seen to contain sim mobile carrier details, amongst other things.
- 5) The `gamed` process makes connections to `init.gc.apple.com`, `static.gc.apple.com`, `profile.gc.apple.com`. The latter two connections send authentication tokens that are linked to the device.
- 6) The Preferences agent makes connections to `init.itunes.apple.com` and `play.itunes.apple.com` which send authentication tokens that are linked to the device

#### Connection details:

##### Connection made by AST process:

```

POST https://idiagnostics.apple.com/ios/v1.3/session
Headers
X-DA-LOG-LEVEL: 0
User-Agent: AST/1.3 (iPhone; CPU iOS 13_6_1 like Mac OS X)
Version/13.6.1 Mobile/17G80 com.apple.DiagnosticsSessionAvailability/2.7
[{"identifiers":{"type":"FGSN","serialNumber":"C8PVCBIHJC67"}}]

```

##### Connection sending telemetry:

```

POST https://xp.apple.com/report/2/psr_ota
Headers
User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0

```

```

{"clientId":"2FA9A42B-C5BB-4198-83C5-151257332227";"events":[{"
assetReceiptData":{"Total: 2 (Missing: 0 Valid: 2 Expired: 0 Errors: 0)
ErrorCodes: (\n)","reportVersion":"2","httpCode":200,"ReleaseType":
Unknown","event":"catalogLookup","eventUuid":"792AB080-803A-440D
-9689-4017947FACE3","baseUrl":"https://mesu.apple.com/assets/","
type":"backgroundDiscretionary","pallasClientNonce":"550A2DAC-BE41
-493E-B4C8-0914F3ED9BB5","BuildVersion":"17G80","eventTime
":"1606489466945","assetType":"com.apple.MobileAsset.SoftwareUpdate","
currentOSVersion":"13.6.1","sessionId":"2FA9A42B-C5BB-4198-83C5
-151257332227","splunkResultKey":"success","MobileAssetAssetAudience
":"01c1d682-6e8f-4908-b724-5501fe3f5e5c","HWModelStr":"D201AP
"}]}

```

##### Connections made by adprivacyd process:

```

POST https://cf.iadsdk.apple.com/adserver/2.6/config
Headers
bundleID: com.apple.ap.adprivacyd
POST https://iadsdk.apple.com/adserver/2.6/optout/optout_optin
Headers
bundleID: com.apple.ap.adprivacyd
POST body:
<opaque binary message>
GET https://bag.itunes.apple.com/bag.xml?os=iOS&osVersion=13.6.1&
deviceClass=iPhone&product=com.apple.ap.adprivacyd&productVersion
=1.0&profile=adprivacyd&profileVersion=1&format=json&storefront
=143449-2,29
Headers
x-apple-client-application: com.apple.ap.adprivacyd
user-agent: com.apple.ap.adprivacyd/1.0 iOS/13.6.1 model/iPhone10,4
hwp/t8015 build/17G80 (6; dt:160) AMS/1
cookie: itspod=28; xp_ci=3z24WhRAzByez50zqAJzn1clhAdV; xp_ab
=1#Jv0scgz+-2+7KGQkMc1#yNFpB6B+-2+lrDZsLr0

```

##### Connections made by geod process:

```

GET https://gspe35-ssl.ls.apple.com/geo_manifest/dynamic/config?
application=geod&application_version=1&country_code=IE&hardware=
iPhone10,4&os=ios&os_build=17G80&os_version=13.6.1
Headers
User-Agent: geod/1 CFNetwork/1128.0.1 Darwin/19.6.0
POST https://gsp-ssl.ls.apple.com/ab.arpc
POST body:
b'\x00\x01\x00\x08en-IE_IE\x00\x0ecom.apple.geod\x00\x0c13.6.1.17
G80\x00\x00\x03\xf8\x00\x00\x00D\n$98C779BC-E13A-4758-85A0-
BF38FB9EF387\x1a\x1c\n\x02IE\x1a\x05en-IEJ\x00P\x01X\x0f\x05
\x80\x01\x03\x98\x01\x00\xb0\x01\x02'
POST https://gsp64-ssl.ls.apple.com/hvr/v3/use
Headers
User-Agent: geod/1 CFNetwork/1128.0.1 Darwin/19.6.0
POST body:
<opaque binary message, contains sim mobile carrier details amongst other
things>

```

##### Connections made by gamed process:

```

GET https://init.gc.apple.com/WebObjects/GKInit.woa/wa/getBag?ix=2
Headers
X-Apple-Request-UUID: A95F6C43-D6A1-4364-A398-
F14B0A77918F
User-Agent: gamed/5.12.20.4.10.18.5.5.2 (iPhone10,4; 13.6.1; 17G80;
GameKit-665.26)
GET https://static.gc.apple.com/sap/setup.crt
Headers
x-gk-bundle-id: com.apple.gamecenter
X-Apple-Request-UUID: 4E1008D8-722E-452A-B2B4-
B1A7FBD9105D
X-Apple-I-MD-RINFO: 17106176
X-Apple-I-MD-M:
5ekJNohUcJUP1EFYFrRt5P+...JQe75pPzhhIYjL2Z
X-Apple-I-MD: AAAABQAAA...2drhFhH8oAAAAAAw==
User-Agent: gamed/5.12.20.4.10.18.5.5.2 (iPhone10,4; 13.6.1; 17G80;
GameKit-665.26)
POST https://profile.gc.apple.com/WebObjects/GKProfileService.woa/wa/
sapSetup
Headers
X-Apple-I-MD-RINFO: 17106176
x-gk-bundle-id: com.apple.gamecenter
X-Apple-Request-UUID: E0CA9F87-5ACF-4780-B328-
B6C417E77BF6

```

```

X-Apple-I-MD-M: 5ekJNohUcJUP1EF...NJQe75pPzhhiYjL2Z
User-Agent: gamed/5.12.20.4.10.18.5.5.2 (iPhone10,4; 13.6.1; 17G80;
GameKit-665.26)
X-Apple-I-MD: AAAABQAAAB...rhFHh8oAAAAAAw==
<?xml version="1.0" encoding="UTF-8"?>
<DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0/EN" "http://www.
apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>sap-setup-buffer</key>
  <string>AQhKdD/RkzijkKnd/OJ...baQRDCwAA</string>
  <key>sap-version</key>
  <string>2</string>
</dict>
</plist>

```

*Connections made by Preferences process:*

```

GET https://init.itunes.apple.com/bag.xml?ix=6&os=13&locale=en_IE
Headers
  x-apple-i-md-rinfo: 17106176
  x-apple-i-md-m: 5ekJNohUcJUP1EFYFrRt5P+
FVGfYmlrYEHROjio8XDdwjN10B1tbV1q9F3e9BjNJQe75pPzhhiYjL2Z
  x-apple-i-md:
AAAABQAAABARfmFPsLx5focnq5NBPMlyAAAAAw==
  user-agent: Preferences/1 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build
/17G80 (6; dt:160)
GET https://play.itunes.apple.com/WebObjects/MZPlay.woa/wa/
getMatchStatusSrv
Headers
  x-apple-i-md-rinfo: 17106176
  x-apple-i-md-m: 5ekJNohUcJUP1EFYFrRt...JQe75pPzhhiYjL2Z
  x-apple-amd-m:
5ekJNohUcJUP1EFYFrRt...OzsUifYaE+gXj08KAL6rqpHKY
  user-agent: Preferences/1 iOS/13.6.1 model/iPhone10,4 hwp/t8015 build
/17G80 (6; dt:160)
  x-apple-amd: AAAABAAA...hR81zJdZAND
  x-apple-i-md: AAAABQAAAB...BPMLyAAAAAw==

```

*Connections made by other settings-related processes:*

```

GET https://configuration.apple.com/configurations/internetservices/cloudkit/
reminders-1.0.plist
Headers
  User-Agent: remindd (unknown version) CFNetwork/1128.0.1 Darwin
/19.6.0
GET https://pancake.apple.com/bags/maple/ios/coreaudio?version=10.89
Headers
  User-Agent: rtcreportind (unknown version) CFNetwork/1128.0.1
Darwin/19.6.0
GET https://cdsassets.apple.com/library/APPLE/asset/ndoV2.plist
Headers
  User-Agent: NewDeviceOutreach/1 CFNetwork/1128.0.1 Darwin/19.6.0
GET https://itunes.com/version
Headers
  User-Agent: CommCenterMobileHelper/%7
BCURRENT_PROJECT_VERSION%7D CFNetwork/1128.0.1 Darwin
/19.6.0
GET https://itunes.apple.com/WebObjects/MZStore.woa/wa/com.apple.jingle.
appserver.client.MZITunesClientCheck/version/
Headers
  user-agent: CommCenterMobileHelper/%7
BCURRENT_PROJECT_VERSION%7D CFNetwork/1128.0.1 Darwin
/19.6.0
POST https://gdmf.apple.com/v2/assets
Headers
  User-Agent: %7BPRODUCT_NAME%7D/%28
CURRENT_PROJECT_VERSION%29 CFNetwork/1128.0.1 Darwin/19.6.0
{
  "TrainName" : "YukonG",
  "SessionId" : "16F33D6B-FF85-4B87-A7F8-2198F733EA6D",
  "ProductType" : "iPhone10,4",
  "AssetType" : "com.apple.MobileAsset.SoftwareUpdate",
  "ProductVersion" : "13.6.1",
  "DeviceClass" : 1,
  "DeviceVariant" : "A",
  "SigningFuse" : "true",
  "ClientData" : {
    "DeviceAccessClient" : "softwareupdateservicesd"
  }
}

```

```

},
"Nonce" : "550A2DAC-BE41-493E-B4C8-0914F3ED9BB5",
"Supervised" : "false",
"ProductName" : "iPhone OS",
"BaseUrl" : "https://\mesu.apple.com/assets/",
"AssetAudience" : "01c1d682-6e8f-4908-b724-5501fe3f5e5c",
"BuildVersion" : "17G80",
"ClientVersion" : 2,
"InternalBuild" : "false",
"BuildID" : "7FEA8C96-D86C-11EA-B09C-6EA50FBD8873",
"IsUIBuild" : "true",
"HWModelStr" : "D201AP",
"SystemImageID" : "2D3A681F-ADD4-467B-9C17-D0882756940E",
"DelayRequested" : "false",
"DeviceCheck" : "Foreground",
"DeviceName" : "iPhone"
}
GET http://ocsp.apple.com/ocsp03-asica401/ME4wTKADAgEAMEUwQz...
PGiR7NAMqaQIbtOluPFkgyM%3D
Headers
  User-Agent: com.apple.trustd/2.0

```

## II. ANDROID GOOGLE PLAY SERVICES CONNECTIONS

### A. Connections On Fresh Phone Startup & User Not Logged Into Google Account

Summary:

- 1) The first connection that sends data is to Google Analytics endpoint `app-measurement.com`. An app instance id is sent, which in a later call to `app-measurement.com` is linked to the device `rdid` (resettable device identifier).
- 2) The next connection is made by the `DroidGuard` process (used for device attestation, part of Google's SafetyNet service), which send the device hardware serial number (which persists across a factory reset) via call to `www.googleapis.com/androidantiabuse`
- 3) The device `rdid` (resettable device identifier), used for measurement and `ads2` is sent next in a call to `www.gstatic.com` and then in a call to Google Analytics at `app-measurement.com`.
- 4) Early in the startup process a call is made to `youtubei.googleapis.com/deviceregistration` that sends a `rawDeviceId` value.
- 5) In due course a call to the `android.clients.google.com/checkin` is made. This shares the device Wifi MAC address, its hardware serial number and the sim IMEI, effectively linking these together. A subsequent call to `android.clients.google.com/checkin` further links these values to the `AndroidId` (a persistent device identifier that requires a factory reset to change) and a variety of security tokens.
- 6) Cookies are sent in a number of calls, starting with one to `fonts.gstatic.com` and then to `play.googleapis.com` (this call includes the `AndroidId` and so links that with the cookie).
- 7) During the startup process around 3MB of data is sent to Google servers in POST requests (data passed via URL parameters and request headers is additional to this) and 0.95GB of data are received.
- 8) Unlike with IOS, a network connection is not necessary in order to restart the Android phone following a factory reset (in contrast to the IOS phone). Starting the phone with the network disabled naturally prevents any network connections being generated. As can be seen below, when the networks is enabled during startup all of the network connections observed are generated by Google apps, in particular Google Play Services, Google Play Store, Youtube and Maps. Disabling these apps before enabling the network prevents the associated network connections i.e. starting the handset with the network disabled, then disabling Google Play Services, Google Play Store, Youtube and Maps (which are enabled by default) and only after that enabling the network acts to

prevent the network connections to Google servers listed below.

Connection details (when handset WiFi enabled during startup):

```
GET http://connectivitycheck.gstatic.com/generate_204
GET https://www.google.com/generate_204
GET http://connectivitycheck.gstatic.com/generate_204
GET https://www.google.com/generate_204
GET https://gstatic.com/matchmaker/webref/19051900/2/en-us/superpacks_manifest.zip
Headers
  user-agent: superpacks
<<< HTTP 301, 279.00B
GET https://app-measurement.com/config/app/1%3A286455739530%3Aandroid%3A4a942425ed36c2fa?app_instance_id=93a09622...71b80d1ee8f0e52&platform=android&gmp_version=17786
<<< HTTP 200, 954.00B
POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlZaSyB...wzOlz-ITI
Headers
  User-Agent: DroidGuard/17786048
POST body decoded as protobuf:
<...>
2 {
  1: "SERIAL"
  2: "HT7AC1A04090" Handset hardware serial number
}
<...>
<<< HTTP 200, 383.45KB
POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlZaSyBofcZ...k4rYwzOlz-ITI
Headers
  User-Agent: DroidGuard/17786048
POST body decoded as protobuf:
<same as for previous connection>

GET https://www.gstatic.com/matchmaker/webref/19051900/2/en-us/superpacks_manifest.zip
Headers
  user-agent: superpacks
<<< HTTP 404, 1.58KB
GET https://www.googleadservices.com/pagead/conversion/1001680686/?bundleid=com.google.android.youtube&appversion=13.23.60&osversion=10&sdkversion=ct-sdk-a-v2.2.4&gms=1&lat=0&rdid=8f29ff...f7804a3bd&timestamp=1606772640.167&remarketing_only=1&usage_tracking_enabled=0&data.screen_name=%3CAndroid_YT_Open_App%3E
The rdid value is a device identifier used for measurement and ads.

GET https://gstatic.com/matchmaker/template_table/19010802/2/en-us/superpacks_manifest.zip
Headers
  user-agent: superpacks
<<< HTTP 301, 287.00B
GET https://www.youtube.com/csi_204?v=3&s=youtube_android&action=process&yt_lt=cold&mod_li=0&conn=3&it=ndps.201.proc_k.-102.app_l.306.f_proc.536&cplatform=mobile&cbr=com.google.android.youtube&c=android&cmodel=Pixel%202&cos=Android&csdk=29&cbrver=13.23.60&cver=13.23.60&cosver=10&cbrand=Google&proc=8
Headers
  user-agent: com.google.android.youtube/13.23.60(Linux; U; Android 10; en_US; Pixel 2 Build/QP1A.190711.019) gzip
<<< HTTP 204, 0.00B
GET https://www.gstatic.com/matchmaker/template_table/19010802/2/en-us/superpacks_manifest.zip
Headers
  user-agent: superpacks
<<< HTTP 200, 341.00B
HEAD https://youtubei.googleapis.com/generate_204
Headers
  user-agent: com.google.android.youtube/1323603440 (Linux; U; Android 10; en_US; Pixel 2; Build/QP1A.190711.019; Cronet/68.0.3440.8)
<<< HTTP 204, 0.00B
Telemetry is sent to app-measurement.com:
```

<sup>2</sup>See <https://developers.google.com/ads-data-hub/guides/rdid-matching>.



```

POST https://app-measurement.com/a
POST body decoded as protobuf:
1<...>
  12: 0
  13: "manual_install"
  14: "com.google.android.apps.work.oobconfig"
  16: "1.0.249800992"
  17: 10298
  18: 17786
  19: "8f29ff...f7804a3bd"
  20: 0
  21: "93a09622...71b80d1ee8f0e52"
  22: 12815...134672363
  23: 1
  25: "1:286455739530:android:4a942425ed36c2fa"
  28: 1
  31: 111
  35: 1593...623648
  36: 0
  46: 0
}
<<<< HTTP 204, 0.00B
POST https://youtubei.googleapis.com/deviceregistration/v1/devices?key=
AIzaSyA8ei...KTyQ_vz_YM39w&rawDeviceId=52345f96f4bd1086
Headers
  user-agent: com.google.android.youtube/13.23.60(Linux; U; Android 10;
  en_US; Pixel 2 Build/QP1A.190711.019) gzip
<<<< HTTP 200, 233.00B
POST https://youtubei.googleapis.com/youtubei/v1/browse?key=AIzaSyA8...
KTyQ_vz_YM39w
Headers
  x-goog-device-auth: device_id=AP+lc7/KUrgd/FLH79M4+
  OYUW3PbbPntDCLow4q0Gdi5Qji5/VaPT6acOqc/kcP37m/
  fuc41pfKt81UJExSYujvYERCSlzhLzchUK7WakBCPXZaDT5wznhuODUk...
  9k2mfLpRwQD5JTwZw,data=AIBMSbxlHQNX,content=
  AIBMSbwijxeWJwRPOjwgbxMaSHWR1DMtpw
  user-agent: com.google.android.youtube/13.23.60(Linux; U; Android 10;
  en_US; Pixel 2 Build/QP1A.190711.019) gzip
POST body decoded as protobuf:
<...>
  1: "ms"
  2: "CoAClyNqpFAD1...6QLBng"
<...>
<<<< HTTP 400, 274.00B

POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO
&key=AIzaSyBofc...k4rYwzOIZ-ITI
Headers
  User-Agent: DroidGuard/17786048
POST body decoded as protobuf:
1 {
  1: "checkin"
  2: "com.google.android.gms"
}
<...>
2 {
  1: "SERIAL"
  2: "HT7AC1A04090" Handset hardware serial number
}
<...>
<<<< HTTP 200, 47.88KB
POST https://www.googleapis.com/androidcheck/v1/attestations/adAttest?key
=AIzaSyDaepk5bnjnTA7ZhzF_0fzIHIXAKZl3dA
Headers
  User-Agent: GmsCore/17786048 (walleye QP1A.190711.019); gzip
POST body decoded as protobuf:
1 {
  1: "8f29ff...f7804a3bd"
  2: 17786048
  3: 1
  4: 1606772639590
}
2: "CgZyXBvZOsbSEEA...UrI5WCJRLCOq-IRNMA"
<<<< HTTP 200, 117.00B
GET https://www.google.com/complete/search?oe=utf-8&safe=images&gcc
=US&ctzn=Europe%2FDublin&ctf=0&v=9.91.14.21.arm64&ntyp=1&

```

```

ram_mb=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbs-android-
asbl-pb&qsubts=1606772640754&devloc=0&padt=200&padb=684&gs_pcr=
t&q=&cp=0&psi=hYrtM9wdzRc.1606772640765.0&ech=0&dpr=2.625&
gs_pcert=1&xssi=t&getexp=1
Headers
  x-client-data: ahYfiwgAAAAAAAAAE2AAAK4AGwsCAAAA
<<<< HTTP 200, 13.45KB
POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO
&key=AIzaSyBofcZ...rYwzOIZ-ITI
Headers
  User-Agent: DroidGuard/17786048
POST body decoded as protobuf:
<...>
2 {
  1: "SERIAL"
  2: "HT7AC1A04090"
}
<...>
<<<< HTTP 200, 50.83KB
GET https://android.clients.google.com/fdfe/deviceSettings
Headers
  User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5
  D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,
  hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
  %202,buidId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
  v8a;armeabi-v7a;armeabi)
  X-DFE-Device-Config: H4sIAAAAAAAAAAJIYS...985PKIQAA
  X-DFE-Data-Service-Subscriber: H4sIAAA...AAAA
<<<< HTTP 400, 57.00B
POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO
&key=AIzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIZ-ITI
Headers
  User-Agent: DroidGuard/17786048
POST body decoded as protobuf:
<...>
2 {
  1: "SERIAL"
  2: "HT7AC1A04090"
}
<...>
<<<< HTTP 200, 54.99KB
GET https://clientservices.googleapis.com/chrome-variations/seed?osname=
android_webview&milestone=74&channel=stable
<<<< HTTP 200, 10.91KB

```

First call to checkin endpoint:

```

POST https://android.clients.google.com/checkin
POST body decoded as protobuf:
<...>
7: 858797951683846810 loggingId
9: "e60d4b46d158" wifiMacAddress
10: "357537080984248" IMEI
11: ""
12: "Europe/Dublin"
14: 3
15: "bfMkwynjHzXGBpc2WT62otR8JkI=" SHA-1 of each cert in
/system/etc/security/otacerts.zip
16: "HT7AC1A04090" hardwareSerialNumber
<...>
24: "CgZmMZ-
F5fTSEEA...ooHMFg7iB93G2bAenBIZIYPhMFUwYaZqw"
droidguardResultsRequest, binary
blob
29: 0
30: 0
<<<< HTTP 200, 164.00KB

POST https://www.googleapis.com/androidcheck/v1/attestations/adAttest?key
=AIzaSyDaepk5...IXAkZl3dA
Headers
  User-Agent: GmsCore/17786048 (walleye QP1A.190711.019); gzip
POST body decoded as protobuf:
1 {
  1: "8f29ff...f7804a3bd"
  2: 17786048
  3: 1
  4: 1606772640594
}

```

```

}
2: "CgZyXBvZOsbSEEA...yQjs4O5roWMQIasr1A"
<<<< HTTP 200, 117.00B
POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO
&key=AlzaSyBofcZs...wzOIZ-ITI
Headers
  User-Agent: DroidGuard/17786048
POST body decoded as protobuf:
<...>
2 {
  1: "SERIAL"
  2: "HT7AC1A04090"
}
<...>
<<<< HTTP 200, 50.90KB

POST https://auditrecording-pa.googleapis.com/google.internal.api.
auditrecording.v1.AuditRecordingMobileService/CreateAuditRecord
POST body:
<binary payload>

First call to log/batch telemetry endpoint:
POST https://play.googleapis.com/log/batch
Headers
  Cookie: NID=""
  User-Agent: Android/com.google.android.gms/17786048 (walleye QP1A
.190711.019); gzip
POST body decoded as protobuf
<device details>
  12: 18446744073709551615
<...>
5: ""\214\001...\001\002"
6: "ANDROID_IME_ANDROID_PRIMES"
<...><...>
<device details>
12: 18446744073709551615
<...>
5: "">\010\337\253\326\330\341.2...\001\000"
6: "NETREC"
<...> {
<device details>
  12: 18446744073709551615
<...>
5: ""\311\001\010\273...\002\272\001\000"
6: "GOOGLE_KEYBOARD_COUNTERS"
<...>
<device details>
  12: 18446744073709551615
<...>
5:
"6\010\331\251\326\330...0\200\200\001\260\001\002\272\001\000"
6: "LATIN_IME"
<...>1 {
<device details>
  12: 18446744073709551615
<...>
6: "GAL_PROVIDER"
<...>
<device details>
  12: 18446744073709551615
<...>
5:
""\017\010\272\227\327\330\341.\210\001\273\274\001\230\001\002"
6: "BRELLA"
<...>1 {
  1 {
    <device details>
      12: 18446744073709551615
    }
  4: 1606772642174
  5: "v\...41.2T*?\n\035com.google.android.apps.turbo
\022\0271.9.0.247950067.release\030...\001\000"
  <...>
  6: "TURBO_ANDROID_PRIMES"
  <...>
  <device details>
    12: 18446744073709551615
  }
  4: 1606772642174
  5: "S\010\350...\230\001\002"
  6: "GMS_CORE_PEOPLE"
  <...><...>
  <device details>
    12: 18446744073709551615
  <...>
  6: "CONTEXT_MANAGER"
  <...>
  <device details>
    12: 18446744073709551615
  <...>
  5: ""\010\244\273\326\330\341.28:6\010\001\022)\n'com.google.
android.googlequicksearchbox\030\001\244\273...1\002"
  6: "ACTIVITY_RECOGNITION"
  <...>
  <device details>
    12: 18446744073709551615
  <...>
  5: ""7\010\300\237\...\001\000"
  6: "MAGICTETHER_COUNTERS"
  <...>
  <device details>
    12: 18446744073709551615
  <...>
  5: ""\221\...20\000*7\n\025com.google.android.gm
\022\0278.5.6.199637500.release\030\001\227\370\237)r\004\n\002@
\000\212\001\024Application.onCreate\272\001\n
\010\264\366\357...\000*7\n\025com.google.android.gm
\022\0278.5.6.199637500.release\030\001\227\370\237)r\004\n\002@
\000\212\001\024Application.onCreate\272\001...7\n\025com.google.
android.gm\022\0278.5.6.199637500.release\030\001\227\370\237)r
\004\n\002@\000\212\001\024Application.onCreate\272\00...002"
  6: "GMAIL_ANDROID_PRIMES"
  <...>
  <device details>
    12: 18446744073709551615
  <...>
  5: ""\310\0..6\022*12.0.199517396-carrierservices_V12W_1_RC27
\0326\010\350\313\340\017\022\3.3.039 (Xylophone_RC18_xhdp.
arm64-v8a.phone)"\002\n\000r-\010\...267\364\001"\030
UNKNOWN_SIM_CALL_MANAGER@\00...001\000"
  6: "CARRIER_SERVICES"
  <...>
  <device details>
    12: 18446744073709551615
  <...>
  5: ""\017\010\272\22...3\274\001\230\001\002"
  6: "CARRIER_SERVICES_ANDROID_PRIMES"
  <...>
  <device details>
    12: 18446744073709551615
  <...>
  5: "8\010\310\242...\001\000"
  6: "BRELLA"
  <...>
  <device details>
    12: 18446744073709551615
  <...>
  5: "O\010\31...\n\024UNKNOWN_SIM_OPERATORx
\000\210\...\272\001\000"
  6: "BUGLE_COUNTERS"
  <...>
  <device details>
    12: 18446744073709551615
  <...>
  6: "GOOGLE_NOW_LAUNCHER"
  <...>

```

```

<device details>
  12: 18446744073709551615
<...>
  5: "\261\001\010\341\235\327\330\341.2\211\001\032\026com.
google.android.gms\*\r0p:discoverer(005B\010\003:Z\n\*\n\034com.
google.nearby.discoverer\022\002en\ns\n\024_reserved_namespace
\022\014_ble_record\022\014\010\377\377\3771\000"
  5: "F\010\341\235\327\330\341.2\037\n
\005\010\013\*\001-\032\026com.google.android.gmsx\000\202\000"
<...>
  6: "COPRESENCE_NO_IDS"
<...>
<device details>
  12: 18446744073709551615
<...>
  5: "\017\010\264...\001\000"
  6: "BEACON_GCORE"
<...>
  1: 0
<device details>
  12: 18446744073709551615
<...>
  5: "\244\004\010\200\260\312\330\3...com.google.android.apps.
wellbeing*\r1.0.2503085232\0020\000\032\...00\000\022\004main
\030\204\007\*\Vcom.google.android.apps.wellbeing.appconfig.limit.impl.
AppUsageLimitObserverApiWrapper*0
getDeprecatedRegisterAppUsageLimitObserverMethod2mUsageStatsManager
#registerAppUsageLimitObserver(int, String[], long, TimeUnit,
PendingIntent) does not exist:\247\001\n\223\001Broadcast to com.
google.android.apps.wellbeing.appconfig.limit.impl.
TimezoneChangeBroadcastReceiver_Receiver android.intent.action.
TIMEZONE_CHANGED\n\017handleBroadcastX\266\310\22...\002"
  5: "\240\004\010\255\302\326\330\341.2\370\003\022<\0...com.
google.android.apps.wellbeing*\r1.0.2503085232\0020\000\032\220\002\
n\014\010\000\025\000\000\000\000\035\000\000\000\022\004
main\030\204\007\*\Vcom.google.android.apps.wellbeing.appconfig.limit.
impl.AppUsageLimitObserverApiWrapper*0
getDeprecatedRegisterAppUsageLimitObserverMethod2mUsageStatsManager
#registerAppUsageLimitObserver(int, String[], long, TimeUnit,
PendingIntent) does not exist:\244\001\n\220\001Broadcast to com.
google.android.apps.wellbeing.appconfig.limit.impl.
BootCompletedBroadcastReceiver_Receiver android.intent.action.
BOOT_COMPLETED\n\017handleBroadcastX\266\310\220\3... \002"
  5: "\217\0... \002\022<\02...com.google.android.apps.wellbeing*\r1
.0.2503085232\0020\000\032\231\002\n\014\0...00\022\rBinder:6619_2
\030\204\007\*\Vcom.google.android.apps.wellbeing.appconfig.limit.impl.
AppUsageLimitObserverApiWrapper*0
getDeprecatedRegisterAppUsageLimitObserverMethod2mUsageStatsManager
#registerAppUsageLimitObserver(int, String[], long, TimeUnit,
PendingIntent) does not exist:\n\n\010api_callX\266\310...\001\000"
  6: "CLIENT_LOGGING_PROD"
<...><...>
<device details>
  12: 18446744073709551615
<...>
  5: "\010\346\263\312\...2\001\000"
  6: "WESTWORLD_COUNTERS"
<...>
  5: "n\010\353...\001\000"
  6: "ANDROID_GSA"
<...>
<device details>
  12: 18446744073709551615
<...>
  5: "\204\001\010\337...\001\000"
  6: "CALENDAR_UNIFIED_SYNC"
<...>
<device details>
  12: 18446744073709551615
<...>
  5: ".\010\210\274\312...\001\000"
  6: "CARRIER_SERVICES"
<...>
<device details> 12: 18446744073709551615
<...>
  5: "7\010\363\275...\001\000"
  6: "EASY_UNLOCK_COUNTERS"
<...>
<device details>
  12: 18446744073709551615
<...>
  5: "\010\275\303\312...002\272\001\000"
  6: "MATCHSTICK"
<...>
<device details>
  12: 18446744073709551615
<...>
  5: "4\010\326\347\312\330\341.2...1\000"
  6: "ICING"
<...>
<device details>
  12: 18446744073709551615
  5: "\335\001\010\370\307\312\330\341.\022\007install2\254\001\n
\251\001\n\03217.7.86 (120408-256199907)\020\343\231\225z
\030\021 \004(\0102d\n\0052.1.0\022\023The Android Project\032\006
Dalvik\*\0030.9*\023The Android Project2$Dalvik Virtual Machine
Specification8\000@\000H\...1\002"
  6: "GMS_CORE"
<...>
<device details> 12: 18446744073709551615
<...>
  5: "H\010...\001\000"
  6: "PLATFORM_STATS_COUNTERS"
<...><...>
<device details>
  12: 18446744073709551615
<...>
  5: ")\010\273...\002"
  6: "ANDROID_BACKUP"
<...>
<device details>
  12: 18446744073709551615
<...>
  5: "3\010\307\...\001\000"
  6: "CLEARCUT_LOG_LOSS"
<...><...>
  1: 0
<device details>
  12: 18446744073709551615
<...>
  5: "\010\366...\001\002"
  6: "WIFI_ASSISTANT"
<...>
<device details>
  12: 18446744073709551615
<...>
  5: "w\010\234\354\312\330\341.2P*:\n\033com.google.android.apps.
gcs\022...\020\000"
  6: "WIFI_ASSISTANT_PRIMES"
<...>
<device details>
  12: 18446744073709551615
}
  4: 1606772642174
  5: ">\010\215\361\312\330\341.\022\034com.google.android.apps.
mapsx\000...\002\272\001\000"
  6: "APP_USAGE_1P"
<...>
<device details>
  12: 18446744073709551615
<...>}
  5: "e\010\310\2... \001\000"
  6: "GMM_COUNTERS"
<...>
<device details>
  12: 18446744073709551615
<...>
  6: "ANDROID_MESSAGING"
<...>

```

```

<device details> 12: 18446744073709551615
}
4: 1606772642174
5: "|\010\230\375\312\330\341.2U*@\ncom.google.android.apps.
safetyhub\022\0241.0.256403357.aurora\030...\001\002\272\001\000"
6: "SAFETYHUB_ANDROID_PRIMES"
<...>
<device details>
12: 18446744073709551615
}
4: 1606772642174
5: "m\010\244\223\313\330\341.2K*6\n\033com.google.android.
contacts\022\0203.5.51.249995595...2\272\001\000"
6: "ANDROID_CONTACTS_PRIMES"
<...>
<device details> 12: 18446744073709551615
<...>
5: "l\010\324\234\327\330\341.2J*5\n\035com.google.intelligence.
sense\022\r1.0.252014563\030\001\352\246\245uB
\004\010\002...\000"
6: "PIXEL_AMBIENT_SERVICES_PRIMES"
<...>
<device details>
12: 18446744073709551615
<...>
5: "Y\010\362\224\347\330...\000"
6: "ANDROID_CONTACTS_COUNTERS"
<...>
<device details>
12: 18446744073709551615
<...>
6: "STREAMZ_ANDROID_GROWTH"
<...>
<device details> 12: 18446744073709551615
<...>
6: "PIXEL_HW_INFO"
<...>
GET https://www.gstatic.com/cryptauthvault/v0/cert.xml
<<<< HTTP 200, 10.42KB
GET https://www.gstatic.com/cryptauthvault/v0/cert.sig.xml
<<<< HTTP 200, 5.95KB
POST https://android.clients.google.com/c2dm/register3
Headers
Authorization: AidLogin 3876027569814251330:4707843177977026675
Google
AndroidId
app: com.google.android.gms
gem_ver: 17786048
User-Agent: Android-GCM/1.5 (walleve QP1A.190711.019)
X-subtype=121252257541&X-X-subscription=121252257541&sender
=121252257541&X-X-subtype=121252257541&X-app_ver=17786048&X-
osv=29&X-cliv=iid-17786000&X-gmsv=17786048&X-appid=
embdod44p88&X-scope=DeviceKeyRequest&X-subscription
=121252257541&X-app_ver_name=17.7.86+%28120408-%7B%7D
%7D%29&app=com.google.android.gms&device=3876027569814251330&
app_ver=17786048&info=s-xTeoyqJEUQKri541rkWVlj2xYRc&
gem_ver=17786048&plat=0&cert=38918
a453d07199354f8b19af05ec6562ced5788
<<<< HTTP 400, 20.00B
POST https://www.googleapis.com/affiliation/v1/affiliation:lookup?alt=proto
&key=AlzaSyAP-gf..._mXHhzlk
Headers
X-Android-Cert: 38918A453D07199354F8B19AF05EC6562CED5788
X-Android-Package: com.google.android.gms
User-Agent: GmsCore/17786048 (walleve QP1A.190711.019); gzip
POST body decoded as protobuf:
1: "android://k93uFAWQ5SbHPw...cYlzsSYsoHgi5fQ==@com.google.
android.carriersetup"
1: "android://UhbMtiAExFNPnc...LRvVhwTYm3cRKSpFaQ==@com.
android.cts.priv.ctsshim"
1: "android://aWpp9heYDXEdo...iJS_6shKX4t-Ojg==@com.google.android
.youtube"
<more installed packages>
<...>
GET https://dl.google.com/dl/android/voice/en-us/v306/en-US-v306-f28.
zip?extraforlog=av%3A9.91.14.21.arm64%3Bf%3A0%3Btv%3A306%3Bpv
%3A301%3Bs%3A2
Headers
User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 200, 23.84MB
POST https://play.googleapis.com/log/batch
POST body decoded as protobuf:
<...>
<device details> }
12: 18446744073709551615
<...>
6: "AUDIT"
<...>
POST https://android.googleapis.com/auth/devicekey
Headers
device: 35ca6a89e6662742 Hex converts to decimal
3876027569814251330, the AndroidId
app: com.google.android.gms
User-Agent: GoogleAuth/1.4 (walleve QP1A.190711.019); gzip
POST body decoded as protobuf:
1: "CgZxSbrszArSEEAALGfx-
hxVW49AGNfPdWtu7VADk...2n27hV3luGijldtow-
FlAA5wVtg5TSBN6Eai"
2: 3876027569814251330 Google AndroidId, persistent device identifier
<...>
GET https://fonts.gstatic.com/s/a/directory014.pb
Headers
User-Agent: Fonts/17786048 (walleve QP1A.190711.019); gzip
<<<< HTTP 200, 168.69KB
POST https://android.clients.google.com/checkin
Headers
Cookie: NID=204=MZzSuI9jLzFP1AK0sqdAAkaK4V...8sny4yDs81kb2g
POST body decoded as protobuf:
2: 3876027569814251330 Google AndroidId, persistent device identifier
3: "1-91c5f890566f9b733e909adb1039339b5386ea6c"
<...>
7: 858797951683846810 Google loggingId, chosen randomly on first
checkin call
9: "e60d4b46d158" Handset WiFi MAC address
10: "357537080984248" sim IMEI
11: ""
12: "Europe/Dublin"
13: 0x41559e6d59911873 securityToken
14: 3
15: "bfMkwyjHzXGBpc2WT62otR8JkI=" SHA-1 of each cert in
/system/etc/security/otacerts.zip
16: "HT7AC1A04090" Handset hardware serial number
<...>
24: "CgZmMZ-F5fTSEEAAAL...jE5tdJJSUP3TpmqDzdiNgaaP4"
droidguardResultsRequest, binary blob used for device attestation, contents
not known.
<...>
POST https://auditrecording-pa.googleapis.com/google.internal.api.
auditrecording.v1.AuditRecordingMobileService/CreateAuditRecord
Headers
x-goog-spatula: CjYKfMnVbS5nb29n...Fwu6/s+CCz+wBKGA=
POST body decoded as protobuf:
<...>
<device details>
<...>
POST https://play.googleapis.com/log/batch
Headers
Cookie: NID=204=MZzSuI9jLzFP1A...4yDs81kb2g
User-Agent: Android/com.google.android.gms/17786048 (walleve QP1A
.190711.019); gzip
POST body decoded as protobuf:

```





<<< HTTP 200, 2.09KB

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675  
app: com.google.android.gms  
gcm\_ver: 17786048

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=745476177629&X-X-subscription=745476177629&sender=745476177629&X-X-subtype=745476177629&X-app\_ver=17786048&X-osv=29&X-cliv=iid-17786000&X-gmsv=17786048&X-appid=embdod44p88&X-scope=GCM&X-subscription=745476177629&X-app\_ver\_name=17.7.86+-%28120408-%7B%7Bc1%7D%7D%29&app=com.google.android.gms&device=**3876027569814251330**&app\_ver=17786048&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=17786048&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788

<<< HTTP 200, 158.00B

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=1&c=128

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi) (walleye QP1A.190711.019); gzip

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<device details>

<installed software>

GET https://ota-cache1.googlezip.net/packages/data/ota-api/google\_walleye\_walleye/a80f95ddb550d4728913b112073c606e856b8fb.zip?always\_serve=yes&baany=all&ipbypass=yes&mm=49&ms=aya

Headers

DDVI: **H4sIAAAAAAAAAAJ...QN1qbW-**

<<< HTTP 206, 153.62KB

GET https://dl.google.com/vision/1700/ocr/ocr\_arm64\_v8a.zip

Headers

User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10; Pixel 2 Build/QP1A.190711.019)

<<< HTTP 200, 7.85MB

GET https://android.clients.google.com/fdfe/selfUpdate?ex=1

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

X-DFE-Device-Config: **H4sIAAAAAAAAAAJ...KIQAA**

X-DFE-Device-Id: **35ca6a89e6662742** Hex converts to decimal 3876027569814251330, the AndroidId

X-DFE-Phenotype: H4sIAAAAAAAAA...AAAA

X-DFE-Encoded-Targets: CAESa7OVgQ...D2wV1

GET https://android.clients.google.com/fdfe/delivery?doc=com.android.vending&ot=1&vc=82242510&bvc=81526700&pf=3&pf=5&shh=zen2IIInK1Sx2swLcCn16w&ch=OJGKRT0HGZNU-LGa8F7GViztV4g&isbg=1&isid=QIYsczmrTjiBd3Hal4H-jw

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

X-DFE-Device-Config: **H4sIAAAAAAAAAAJ...KIQAA**

X-DFE-Device-Id: **35ca6a89e6662742** hex-encoded AndroidId

X-DFE-Device-Checkin-Consistency-Token:

**H4sIAAAAAAAAAAJ...QN1qbW-**

from response to checkin request, so linked to AndroidId etc

X-DFE-Phenotype: H4sIAA...oD2wV1

GET https://android.clients.google.com/fdfe/deviceSettings

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

X-DFE-Device-Config: **H4sIAAAAAAAAAAJ...KIQAA**

X-DFE-Device-Id: **35ca6a89e6662742**

X-DFE-Data-Service-Subscriber: **H4sIAAA...AAAA**

X-DFE-Phenotype: H4sIAAA...XeoD2wV1

GET https://android.clients.google.com/fdfe/earlyDelivery?doc=com.google.android.apps.pixelmigrate&ot=1&vc=546412&bvc=286228&pf=1&pf=2&pf=3&pf=4&pf=5&bf=0&fdcf=1&fdcf=2&ch=uw\_9NwELYoc9UMitCTs\_iVx2mAs

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

X-DFE-Device-Config: **H4sIAAAAAAAAAAJ...KIQAA**

X-DFE-Device-Id: **35ca6a89e6662742**

X-DFE-Device-Checkin-Consistency-Token:

**H4sIAAAAAAAAAAJ...QN1qbW-**

X-DFE-Phenotype: H4sIAAAAA...oD2wV1

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=6

Headers

User-Agent: Android/com.google.android.gms/17786048 (walleye QP1A.190711.019); gzip

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<device details>

}

5: "204=MZSuI9jLzFPIA...4yDs81kb2g"

<installed software>

<<< HTTP 200, 821.85KB

GET https://ota.googlezip.net/packages/ota-api/google\_walleye\_walleye/a80f95ddb550d4728913b112073c606e856b8fb.zip

Headers

AUTHORIZATION: **AJeBEBzPTbLPT...Muzq2o7HKGWQ**

DDVI: **H4sIAAAAAAAAAAJ...QN1qbW-**

<<< HTTP 403, 0.00B

GET https://play.googleapis.com/download/by-token/download?token=AOTCm0R1Plo3paceU...MCm4&cpn=kY7Eyy6g0HzI6SPZ&isid=QIYsczmrTjiBd3Hal4H-jw&isbg=1

Headers

User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10; Pixel 2 Build/QP1A.190711.019)

<<< HTTP 302, 0.00B

GET https://r2---sn-q0c7rn76.gvt1.com/play-apps-download-default/download/by-id/AF3DWBfkGp...614M9A?cpn=kY7Eyy6g0HzI6SPZ&initwndbps=12630&mh=Hq&mm=31&mn=sn-q0c7rn76&ms=au&mt=160672208&mv=m&mvi=2&pl=19&expire=1606945453&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q;initwndbps,mh,mm,mn,ms,mv,mvi,pl&signature=93C452E20...692A39&key=am3

Headers

User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10; Pixel 2 Build/QP1A.190711.019)

<<< HTTP 200, 20.45MB

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675

app: com.android.vending

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=932144863878&sender=932144863878&X-app\_ver=81526700&X-osv=29&X-cliv=fiid-UNKNOWN&X-gmsv=17786048&X-appid=f7wtUnM4ELM&X-scope=\*&X-gmp\_app\_id=1%3A221571841318%3Aandroid%3A9c547b5ed466b580&X-Firebase-Client=fire-iid%2F18.0.1+fire-core%2F16.1.0.1+fire-analytics%2F16.5.1+fire-android%2F&X-app\_ver\_name=15.2.67-all+%5B0%5D+%5BPR%5D+256058878&app=com.android.vending&device=**3876027569814251330**&app\_ver=81526700&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=17786048&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788

<<< HTTP 200, 158.00B

POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIZ-ITI

Headers

User-Agent: DroidGuard/17786048

POST body decoded as protobuf:

1 {

1: "attest"

2: "com.google.android.gms"

}

```

<device details>2 {
  1: "SERIAL"
  2: "HT7AC1A04090"
<device details>
<<< HTTP 200, 376.40KB
POST https://android.clients.google.com/fdfe/accountSync
Headers
  User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5
D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  X-DFE-Device-Config: H4sIAAAAAAAAAAJ...KIQAA
  X-DFE-Device-Id: 35ca6a89e6662742
  X-DFE-Device-Checkin-Consistency-Token:
H4sIAAAAAAAAAAJ...QN1qbW-
  X-DFE-Phenotype: H4sIAAAA...AAA
  X-DFE-Encoded-Targets: CAESA7OVgQYOyAXeBNECQgLYAwEB...
gGlAe8CEeIBXeoD2wV1
  POST https://www.googleapis.com/androidcheck/v1/attestations/attest?alt=
PROTO&key=AIZAyDqVnJBjE5ymo--oBJt3On7HQx9xNm1RHA
Headers
  User-Agent: SafetyNet/17786048 (walleye QP1A.190711.019); gzip
POST body decoded as protobuf:
1 {
  1: "\351\364W\225U.?\024h\345\333\220\032X2
\007\032\227\363\250B\261\002\270\211\360"\240\370zg\035"
  2: "com.android.vending"
  3: "\360\375I[A\017%\313%\303\2653F\310\227\2560\370\356t
\021\337\221\004\200\255k-\333\203"
  4: "\257\310\317\217\226s\225m#\250\232\366\016I\301\364\271
R\032\177\331o\017\307\326\301\321\275\027\246"
  5: 17786048
  7 {
    1: 1
    2: 1
  }
  8: 1606772654550
  9: 0
}
2: "CgZmMqRhQPnSEEAACQrBvP9nRcqAFsmCh1S...
msxJwh7OAF4qIFy"

<<<< HTTP 200, 5.25KB
POST https://www.googleapis.com/usercontext/v1/controllerhub/getconfig?
key=AIZAyAP-gf...mXHhzIk
POST body decoded as protobuf:
<...>
POST https://afwprovisioning-pa.googleapis.com/v1/
get_unspoofable_id_challenge?key=
AIZAyCz4PP0H5WUi31kcP9jQjM608qwUtHBWpk
Headers
  User-Agent: OobConfig Google-API-Java-Client Google-HTTP-Java-
Client/1.26.0-SNAPSHOT (gzip)
  x-goog-api-client: java/0 http-google-afwdeviceprovisioningapi/1.26.0
linux/4.4.177
{"deviceIdIdentifier":{"brand":"google","device":"walleye","imei":"
357537080984248","manufacturer":"Google","model":"Pixel 2","product":"
walleye","serialNumber":"HT7AC1A04090"}}
<<<< HTTP 200, 146.00B
GET https://www.gstatic.com/android-search/hotword/x_google/3605
cc4ae88f9e7148bcd037e6d4db4/hotword.data
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 200, 609.83KB
GET https://play.googleapis.com/play/log/timestamp
<<<< HTTP 200, 13.00B
Set-Cookie: NID=204=jyCcFs...5vs; expires= Tue, 01-Jun-2021 21:44:21
GMT; path=/; domain=play.googleapis.com; HttpOnly
POST https://afwprovisioning-pa.googleapis.com/v1/
get_device_provisioning_record?key=
AIZAyCz4PP0H5WUi31kcP9jQjM608qwUtHBWpk
Headers
  User-Agent: OobConfig Google-API-Java-Client Google-HTTP-Java-
Client/1.26.0-SNAPSHOT (gzip)
  x-goog-api-client: java/0 http-google-afwdeviceprovisioningapi/1.26.0

```

```

linux/4.4.177
{"androidId":"3876027569814251330","deviceDataVersionInfo":"
H4sIAAAAAAAAAAJ...QN1qbW-","deviceIdIdentifier":{"brand":"google","
device":"walleye","imei":"357537080984248","manufacturer":"Google","
model":"Pixel 2","product":"walleye","serialNumber":"HT7AC1A04090"},"
languageCode":"en","oemUnlockSecurityName":"01","sdkVersion":"29","
unspoofableId":["MIIDBzCCAq6gAwIBAgIBATAKBggqhkj...
OJENRaNVtZk"]}
<<<< HTTP 200, 563.00B
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: Android/com.android.vending/15.2.67-all [0] [PR]
256058878
  Cookie: NID=204=MZzSu19jLzfp1A...4yDs81kb2g;
POST body decoded as protobuf:
<device details>
<...>
<<<< HTTP 200, 11.00B
Connection to Google Firebase Analytics for event logging...
POST https://app-measurement.com/a
POST body decoded as protobuf:
<...>
  1: "device_id_attestation_latency"
  3: 74
}
<...>
  2: "EVENT_GET_DPR"
  3: 1606772658237
  4: 0
<...>
  8: "android"
  9: "10"
  10: "Pixel 2"
  11 {
    12: 0x73752d6e
  }
  12: 0
  13: "manual_install"
  14: "com.google.android.apps.work.oobconfig"
  16: "1.0.249800992"
  17: 10298
  18: 17786
  19: "8f29ff...f7804a3bd"
  20: 0
  21: "93a09622...71b80d1ee8f0e52"
  22: 12815...134672363
  23: 2
  25: "1:286455739530:android:4a942425ed36c2fa"
  26: 1606771983264
<...>
  35: 1593...623648
<...>

<<<< HTTP 204, 0.00B
POST https://app-measurement.com/a
POST body decoded as protobuf:
<...>
  1: "end_to_end_latency"
  3: 2050
<...>
  2: "EVENT_GET_DPR"
  3: 1606772659126
  4: 1606772658237
<...>
  1: "device_id_attestation_check_latency"
  3: 47
<...>
<...>
  1: "server_challenge_latency"
<...>
  2: "EVENT_GET_UNSPOOFABLE_ID_CHALLENGE"
  3: 1606772659127
  4: 0
<...>
  1: "server_get_dpr_latency"
  3: 869
<...>

```

```

13: "manual_install"
14: "com.google.android.apps.work.oobconfig"
16: "1.0.249800992"
17: 10298
18: 17786
19: "8f29ff...f7804a3bd"
20: 0
21: "93a09622...71b80d1ee8f0e52"
22: 12815...134672363
23: 3
25: "1:286455739530:android:4a942425ed36c2fa"
<...>
35: 1593...623648
<...>
<<<< HTTP 204, 0.00B
GET https://android.clients.google.com/fdfe/preloads?doc=android.
autoinstalls.config.google.nexus&build_fingerprint=google%2Fwalleye%2
Fwalleye%3A10%2FQP1A.190711.019%2F5790879%3Auser%2Frelease-
keys
Headers
  User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5
D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buidId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  X-DFE-Device-Config: H4sIAAAAAAAAAAJY...KIQAA
  X-DFE-Device-Id: 35ca6a89e6662742
  X-DFE-Device-Checkin-Consistency-Token:
H4sIAAAAAAAAAAJ...QN1qbW-
  X-DFE-Data-Service-Subscriber: H4sIAAA...AAAA
  X-DFE-Phenotype: H4sIA...AAA
  X-DFE-Encoded-Targets: CAESa7OVgQYOyAXeBNECQgLYAw...
N9gGIAe8CEeIBXeoD2wV1
<<<< HTTP 200, 26.46KB
GET https://www.gstatic.com/android/config_update/08202014-metadata.txt
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<and more similar>
POST https://www.google.com/m/voice-search/up?pair=4b7c99b8-d7a5-49
dd-9e48-b0658fe91e91
POST body:
b`x00\x00\xc5H#\xf5\xc8\x05\xff\x00\x00\x19}\n\x15assistant-
client-sync\x10\...\x00\x00\x04\x10\x01\x18\x01'
POST https://www.google.com/m/voice-search/down?pair=4b7c99b8-d7a5
-49dd-9e48-b0658fe91e91
GET https://www.gstatic.com/images/icons/material/apps/weather/2x/
partly_cloudy_night_light_color_96dp.png
GET https://play.googleapis.com/download/by-token/download?token=
AOTCm0TpKY...8jKeTkXN&cpn=9GdrwWCJ-x5BCd72
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 302, 0.00B
GET https://r5---sn-q0c7m76.gvt1.com/play-apps-download-default/
download/by-id/AF3DWBd7L...23Y?cpn=9GdrwWCJ-x5BCd72&ctier=L&
initwndbps=12630&mh=21&mm=31&mn=sn-q0c7m76&ms=au&mt
=1606772208&mv=m&mvi=5&pl=19&expire=1606945467&ip
=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q;.initwndbps,mh,mm,
mn,ms,mv,mvi,pl,ctier&signature=71CF65B...29FDD&key=am3
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 200, 2.95MB
POST https://android.clients.google.com/c2dm/register3
Headers
  Authorization: AidLogin 3876027569814251330:4707843177977026675
app: com.google.android.apps.work.oobconfig
gcm_ver: 17786048
  User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)
X-subtype=727210445342&X-X-subscription=727210445342&sender
=727210445342&X-X-subtype=727210445342&X-app_ver=111&X-kid
=%7CID%7C1%7C&X-osv=29&X-sig=DG3XtRS...S1qL2Svwy9Zsygg&X
-cliv=id-10298000&X-gmsv=17786048&X-pub2=MIIBIjANBgkqhkiG...
AQAB&X-X-kid=%7CID%7C1%7C&X-appid=eLl-WyT_XXQ&X-scope
=GCM&X-subscription=727210445342&X-app_ver_name
=1.0.249800992&app=com.google.android.apps.work.oobconfig&device=
3876027569814251330&app_ver=111&info=s-
xTeoyqJEUQKri541rkWVljs2xYRc&gcm_ver=17786048&plat=0&cert
=38918a...ced5788&target_ver=28
<<<< HTTP 200, 165.00B
GET https://www.gstatic.com/android/config_update/08202014-pins.txt
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
GET https://www.gstatic.com/android/config_update/05112020-sms-
blacklist.txt
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
GET https://www.gstatic.com/android/text_classifier/langid/q/v1/model.smfb
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
GET https://www.gstatic.com/android/text_classifier/q/v712/en.fb
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
POST https://android.clients.google.com/fdfe/moduleDelivery
Headers
  User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5
D%20256058878 (api=3,versionCode=81526700,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buidId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  X-DFE-Device-Config: H4sIAAAAAAAAAAJY...AI985PKIQAA
  X-DFE-Device-Id: 35ca6a89e6662742
  X-DFE-Device-Checkin-Consistency-Token:
H4sIAAAAAAAAAAJ...QN1qbW-
  X-DFE-Phenotype: H4sIAAA...AAA
  X-DFE-Encoded-Targets: CAESa7OVgQYOyAXeBNECQgLYAw...
GIe8CEeIBXeoD2wV1
POST body decoded as protobuf:
<...>
GET https://play.googleapis.com/play/log/timestamp
<<<< HTTP 200, 13.00B
Set-Cookie: NID=204=cb7auxdQQFqxr...3Nwz-Y_oM; expires=Tue, 01-
Jun-2021 21:44:27 GMT; path=/; domain=.play.googleapis.com; HttpOnly
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5
D%20256058878
POST body decoded as protobuf:
<device details>
GET https://www.gstatic.com/android/text_classifier/actions/q/v104/en.model
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 200, 3.71MB
GET https://play.googleapis.com/download/by-token/download?token=
AOTC...Yxs&cpn=FzCsZoYhaZEIjsCU
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 302, 0.00B
GET https://play.googleapis.com/download/by-token/download?token=
AOTCm...fMbdJs&cpn=lojd2waGli0BX688
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 302, 0.00B
GET https://r5---sn-q0cedn7s.gvt1.com/play-apps-download-default/
download/by-id/AF3DWB...688&ctier=L&initwndbps=12930&mh=2t&mm
=31&mn=sn-q0cedn7s&ms=au&mt=1606772208&mv=m&mvi=5&pl=19&
expire=1606945471&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,
q;.initwndbps,mh,mm,mn,ms,mv,mvi,pl,ctier&signature=3EFA0...55903&
key=am3
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 200, 821.74KB
GET https://r4---sn-q0cedn7s.gvt1.com/play-apps-download-default/
download/by-id/AF3DWBex...Ys0WBig?cpn=FzCsZoYhaZEIjsCU&ctier=L
&initwndbps=12930&mh=Xk&mm=31&mn=sn-q0cedn7s&ms=au&mt

```



=1606772208&mv=m&mvi=4&pl=19&expire=1606945471&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q,initcwndbps,mh,mm, mn,ms,mv,mvi,pl,ctier&signature=9C33...A4D0E77&key=am3

Headers

User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10; Pixel 2 Build/QP1A.190711.019)

<<< HTTP 200, 6.04MB

POST https://android.clients.google.com/fdfe/earlyUpdate

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878 (api=3,versionCode=81526700, sdk=29,device=walleeye, hardware=walleeye,product=walleeye,platformVersionRelease=10,model=Pixel %202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

X-DFE-Device-Config: H4sIAAAAAAAAAAJ...KIQAA

X-DFE-Device-Id: 35ca6a89e6662742

X-DFE-Device-Checkin-Consistency-Token:

H4sIAAAAAAAAAAJ...QN1qbW-

X-DFE-Phenotype: H4sIAA...AA

X-DFE-Encoded-Targets: CAESA7OVgQYOyAXeB...

oBAa0ECAEGcGECAGmN9gGIAe8CEeIBXeoD2wV1

POST body decoded as protobuf:

<installed software>

GET https://android.clients.google.com/fdfe/delivery?doc=android.

autoinstalls.config.google.nexus&ot=1&vc=1000&bv=1&pf=1&pf=2&pf=3&pf=4&pf=5&bf=0&ia=false&fdcf=1&fdcf=2&ch=4 wlkYazMs5mp2qPUI4MeBHKfWPU&dtok=AB-xQnpA...Gpag

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878 (api=3,versionCode=81526700, sdk=29,device=walleeye, hardware=walleeye,product=walleeye,platformVersionRelease=10,model=Pixel %202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

X-DFE-Device-Config: H4sIAAAAAAAAAAJYXS...I985PKIQAA

X-DFE-Device-Id: 35ca6a89e6662742

X-DFE-Device-Checkin-Consistency-Token:

H4sIAAAAAAAAAAJ...QN1qbW-

X-DFE-Phenotype: H4sIAA...AAA

X-DFE-Encoded-Targets: CAESA7OVgQYOyAXeBNECQgLYAwEB...8

CEeIBXeoD2wV1

GET https://android.clients.google.com/fdfe/preloads?doc=android.

autoinstalls.config.google.nexus&build\_fingerprint=google%2Fwalleeye%2Fwalleeye%3A10%2FQP1A.190711.019%2F5790879%3Auser%2Frelease-keys

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878 (api=3,versionCode=81526700, sdk=29,device=walleeye, hardware=walleeye,product=walleeye,platformVersionRelease=10,model=Pixel %202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

X-DFE-Device-Config: H4sIAAAAAAAAAAJ...AI985PKIQAA

X-DFE-Device-Id: 35ca6a89e6662742

X-DFE-Device-Checkin-Consistency-Token:

H4sIAAAAAAAAAAJ...QN1qbW-

X-DFE-Data-Service-Subscriber: H4sIAA...AAAA

X-DFE-Phenotype: H4sIAA...AA

X-DFE-Encoded-Targets: CAESA7OVgQYOyAXeBNECQgLYAwEB...8

CEeIBXeoD2wV1

<<< HTTP 200, 26.46KB

POST https://cloudconfig.googleapis.com/config

POST body:

b`x1f\x8b\x08\x00\x00... \x02\x00\x00`

<<< HTTP 200, 246.00B

GET https://pai.googlezip.net/download/by-token/download?token=

AOTCMORDySRPjcdY2cS9QMInsx0kg...2Y1

Headers

User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10; Pixel 2 Build/QP1A.190711.019)

<<< HTTP 200, 22.09KB

POST https://play.googleapis.com/play/log?format=raw&proto\_v2=true

Headers

User-Agent: Android-Finsky/15.2.67-all%20%5B0%5D%20%5BPR%5D%20256058878

POST body decoded as protobuf:

<device details>

<...>

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.gm

gcm\_ver: 17786048

User-Agent: Android-GCM/1.5 (walleeye QP1A.190711.019)

X-subtype=946277197574&sender=946277197574&X-X-subtype=946277197574&X-app\_ver=60362702&X-kid=%7CID%7C1%7C&X-osv=29&X-sig=Te5pvefk...y&X-cliv=fid-11200000&X-gmsv=17786048&X-pub2=MIIBIjANBgk...C&X-appid=epBCpNPYQXA&X-scope=\*&X-gmp\_app\_id=1%3A946277197574%3AAndroid%3Af711ae133cf8c27&X-app\_ver\_name=8.5.6.199637500.release&app=com.google.android.gm&device=3876027569814251330&app\_ver=60362702&info=s-xTeoyqJEUQQKri541rkWVljs2xYRe&gcm\_ver=17786048&plat=0&cert=38918a453d07...ed5788&target\_ver=28

<<< HTTP 200, 165.00B

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.wfactivation

gcm\_ver: 17786048

User-Agent: Android-GCM/1.5 (walleeye QP1A.190711.019)

X-subtype=418816648224&X-X-subscription=418816648224&sender=418816648224&X-X-subtype=418816648224&X-app\_ver=29&X-kid=%7CID%7C1%7C&X-osv=29&X-sig=PkTnxmwuuASFNq...w&X-cliv=iid-10298000&X-gmsv=17786048&X-pub2=MIIBIjANBgkqhkiG9...B&X-X-kid=%7CID%7C1%7C&X-appid=dBx3ncE1wHQ&X-scope=GCM&X-subscription=418816648224&X-app\_ver\_name=10&app=com.google.android.wfactivation&device=3876027569814251330&app\_ver=29&info=s-xTeoyqJEUQQKri541rkWVljs2xYRe&gcm\_ver=17786048&plat=0&cert=9ce4288d89...bc7d&target\_ver=28

<<< HTTP 200, 165.00B

GET https://fonts.gstatic.com/s/a/

ba4683bc76380100a5f8e7fae42dd03216a17bd62025a4f24d933df65845a9ac.ttf

Headers

User-Agent: Fonts/17786048 (walleeye QP1A.190711.019); gzip

<<< HTTP 200, 56.07KB

POST https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.

AssetLinks/Check

POST body:

b`x00\x00\x00\x00\xc8\x12\*delegate\_permission/common.  
handle\_all\_urls\*\x1e\n\x1c\n\x1ahttps://market.android.com2z\x12x\n\x13com.android.vending\x12a\n\_F0:FD:6C:5B:41:0F:25:CB:25:C3:B5:33:46:C8:97:2F:AE:30:F8:EE:74:11:DF:91:04:80:AD:6B:2D:60:DB:83`

<<< HTTP 200, 8.59KB

POST https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.

AssetLinks/Check

POST body:

b`x00\x00\x00\x00\xc5\x12\*delegate\_permission/common.  
handle\_all\_urls\*\x1b\n\x19\n\x17https://play.google.com2z\x12x\n\x13com.android.vending\x12a\n\_F0:FD:6C:5B:41:0F:25:CB:25:C3:B5:33:46:C8:97:2F:AE:30:F8:EE:74:11:DF:91:04:80:AD:6B:2D:60:DB:83`

<<< HTTP 200, 8.44KB

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.apps.maps

gcm\_ver: 17786048

User-Agent: Android-GCM/1.5 (walleeye QP1A.190711.019)

sender=658104395416&X-google.message\_id=google.rpc1&app=com.google.android.apps.maps&device=3876027569814251330&app\_ver=1016701244&info=s-xTeoyqJEUQQKri541rkWVljs2xYRe&gcm\_ver=17786048&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788&target\_ver=29

<<< HTTP 200, 146.00B

GET https://connectivitycheck.gstatic.com/generate\_204

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.apps.maps

gcm\_ver: 17786048

User-Agent: Android-GCM/1.5 (walleeye QP1A.190711.019)

X-subtype=493454522602&sender=493454522602&X-app\_ver=1016701244&X-osv=29&X-cliv=fid-UNKNOWN&X-gmsv=17786048&X-appid=dxlZIRG9g4U&X-scope=\*&X-gmp\_app\_id=1%3A493454522602%3AAndroid%3A4877c2b5f408a8b2&X-Firebase-Client=fire-iid%2F18.0.1+fire-core%2F16.1.0.1p+fire-analytics%2F16.5.1+fire-

android%2F&X-app\_ver\_name=10.16.7&app=com.google.android.apps.maps&device=**3876027569814251330**&app\_ver=1016701244&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=17786048&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788&target\_ver=29  
 <<<< HTTP 200, 158.00B

POST https://firebaseinstallations.googleapis.com/v1/projects/android.com:api-project-221571841318/installations

Headers

Cache-Control: no-cache  
 X-Android-Package: com.android.vending  
 x-firebase-client: fire-installations/16.3.4\_1p fire-core/19.3.2\_1p fire-iiid/21.0.0 fire-fcm/20.1.7\_1p fire-analytics/18.0.0 fire-android/  
 x-goog-fis-android-iiid-migration-auth: **f7wtUmM4ELM**:APA91b...  
 \_uJlms  
 {"fid": "**f7wtUmM4ELM**"; "appId": "1:221571841318:android:9c547b5ed466b580"; "authVersion": "FIS\_v2"; "sdkVersion": "a:16.3.4\_1p"}  
 <<<< HTTP 200, 575.00B

POST https://android.clients.google.com/dfde/uploadDeviceConfig

Headers

user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)  
 x-dfe-device-id: **35ca6a89e6662742**  
 x-dfe-device-checkin-consistency-token:

**H4sIAAAAAAAAAAJ...QN1qbW-**

x-dfe-phenotype: H4sIAAAAAAAAAA...3qA9sFZQ

POST body decoded as protobuf:

<installed software>

<<<< HTTP 200, 102.00B

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675  
 app: com.android.vending  
 gcm\_ver: 17786048

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)  
 X-subtype=932144863878&sender=932144863878&X-app\_ver=82242510&X-osv=29&X-cliv=fiid-21.0.0&X-gmsv=17786048&X-appid=**f7wtUmM4ELM**&X-scope=\*&X-Goog-Firebase-Installations-Auth=**eyJhbGciOiJFUzI1NiIsIn...**GdacDg&X-gmp\_app\_id=1%3A221571841318%3Aandroid%3A9c547b5ed466b580&X-Firebase-Client=fire-installations%2F16.3.4\_1p+fire-core%2F19.3.2\_1p+fire-iiid%2F21.0.0+fire-fcm%2F20.1.7\_1p+fire-analytics%2F18.0.0+fire-android%2F&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-Firebase-Client-Log-Type=1&X-app\_ver\_name=22.4.25-21+%5B0%5D+%5BPR%5D+337959405&app=com.android.vending&device=**3876027569814251330**&app\_ver=82242510&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=17786048&plat=0&cert=38918a453d0....ced5788&target\_ver=29  
 <<<< HTTP 200, 20.00B

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=14&c=128

Headers

User-Agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi) (walleye QP1A.190711.019); gzip  
 POST body decoded as protobuf:

<installed software>

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=14&c=128

Headers

User-Agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi) (walleye QP1A.190711.019); gzip  
 POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<device details>

28: "**H4sIAAAAAAAAAAJ...QN1qbW-**"

<...>

<<<< HTTP 200, 25.96KB

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=14&c=128

Headers

User-Agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi) (walleye QP1A.190711.019); gzip  
 POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<device details>

28: "**H4sIAAAAAAAAAAJ...QN1qbW-**"

<...>

GET https://android.clients.google.com/dfde/selfUpdate?ex=1&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)  
 x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMzg3N...NzcyNjg2ODE1NzAy

x-dfe-phenotype: H4sIAAAAAAAAAAC3NUW6C...HiAV3qA9sFZQ

GET https://android.clients.google.com/dfde/delivery?doc=com.android.vending&ot=1&vc=82284210&bvc=82242510&pf=3&pf=5&bda=1&shh=zen2l1nK1Sx2swLcCn16w&ch=OJGKRT0HGZNU-LGa8F7GVizV4g&isbg=1&isid=Nh4XSFAHQGYyljG2rmOJig&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)  
 x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMzg3N...NzcyNjg2ODE1NzAy

x-dfe-device-checkin-consistency-token:

**H4sIAAAAAAAAAAJ...QN1qbW-**

x-dfe-phenotype: H4sIAAAAAAAAAAF...HKBGX/AQ

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675  
 app: com.google.android.apps.messaging  
 gcm\_ver: 17786048

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)  
 X-subtype=466216207879&sender=466216207879&X-X-subtype=466216207879&X-app\_ver=33039848&X-kid=%7CID%7C1%7C&X-osv=29&X-sig=QMiv\_EuCS0...5snL\_Q&X-cliv=fiid-11400000&X-gmsv=17786048&X-pub2=MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ...pxqQIDAQAB&X-X-kid=%7CID%7C1%7C&X-appid=cAHR66fFbG8&X-gmp\_app\_id=1%3A357317899610%3Aandroid%3A4765c0ded882c665&X-app\_ver\_name=3.3.039+%28Xylophone\_RC18\_xxhdp. arm64-v8a.phone%29&app=com.google.android.apps.messaging&device=**3876027569814251330**&app\_ver=33039848&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=17786048&plat=0&cert=0980a1...478c63cfc&target\_ver=28  
 <<<< HTTP 200, 165.00B

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675  
 app: com.android.vending  
 gcm\_ver: 17786048

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)  
 X-subtype=932144863878&sender=932144863878&X-app\_ver=82242510&X-osv=29&X-cliv=fiid-21.0.0&X-gmsv=17786048&X-appid=**dHVKOSLRPFos71S8ynLFp9**&X-scope=\*&X-Goog-Firebase-Installations-Auth=**eyJhbGciOiJFUzI1NiIsIn...**5GdacDg&X-gmp\_app\_id=1%3A221571841318%3Aandroid%3A9c547b5ed466b580&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-app\_ver\_name=22.4.25-21+%5B0%5D+%5BPR%5D+337959405&app=com.android.vending&device=**3876027569814251330**&app\_ver=82242510&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=17786048&plat=0&cert=38918a45....ced5788&target\_ver=29  
 <<<< HTTP 200, 169.00B

The Auth parameter is a jwt token that decodes to:

{

```

"fid": "dHVKOSLRPfo71S8ynLFp9", // Firebase id of Google Play
store app
"projectNumber": 221571841318,
"exp": 1607377486,
"appId": "1:221571841318:android:9c547b5ed466b580"
}
POST https://android.clients.google.com/fdfe/accountSync?nocache_qos=lt
Headers
  user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D
%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buidId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  x-dfe-device-id: 35ca6a89e6662742
  x-dfe-device-config-token: CisaKQoTMzg3N...NzcyNjg2ODE1NzAy
  x-dfe-device-checkin-consistency-token:
H4sIAAAAAAAAAAJ...QN1qbW-
  x-dfe-phenotype: H4sIAAAAAAAAAAF...KBGX/AQ
GET https://play.googleapis.com/download/by-token/download?token=
AOTCm0SZK1wQ...4ab7VCgY&cpn=xbzFd4uUvFUjIFp8&isid=
Nh4XSFAHQGyYljG2rmOJig&isbg=1
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 302, 0.00B
GET https://play.googleapis.com/play/log/timestamp
<<<< HTTP 200, 13.00B
  Set-Cookie: NID=204=aly0ffaSoU5Gdf_9Pfk03...Foam1gNcs; expires=
Tue, 01-Jun-2021 21:44:56 GMT; path=/; domain=.play.googleapis.com;
HttpOnly
POST https://android.clients.google.com/fdfe/uploadDeviceConfig
Headers
  user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D
%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buidId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  x-dfe-device-id: 35ca6a89e6662742
  x-dfe-device-config-token: CisaKQoTMzg3N...NzcyNjg2ODE1NzAy
  x-dfe-device-checkin-consistency-token:
H4sIAAAAAAAAAAJ...QN1qbW-
  x-dfe-phenotype: H4sIAAAAAAAAAAFXOS3...eoDkQHKBGX/AQ
POST body decoded as protobuf:
3: "dHVKOSLRPfo71S8ynLFp9:....35D7araqXOTpK9e" // Firebase id
of Google Play store app

<<<< HTTP 200, 102.00B
POST https://app-measurement.com/a
POST body decoded as protobuf:
<...>
  2: "oem_unlock_success"
<...>
  2: "EVENT_OEM_UNLOCK"
<...>
  13: "manual_install"
  14: "com.google.android.apps.work.oobconfig"
  16: "1.0.249800992"
  17: 10298
  18: 17786
  19: "8f29ff...f7804a3bd"
  20: 0
  21: "93a09622...71b80d1ee8f0e52"
  22: 12815...134672363
<...>
  35: 1593...623648
<...>
<<<< HTTP 204, 0.00B
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D
D%20337959405
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
<device info>
<...>
"\236\022\0...\023com.android.vending\032\016self_update_v2Z4

```

```

\010\3...\000*$
8f29ff...f7804a3bd\000\240\001\001\250\001\346\265\366\330\341."
<...>
  14: "8f29ff...f7804a3bd"
GET https://app-measurement.com/config/app/1%3A327451421140%3
Aandroid%3A9c547b5ed466b580?app_instance_id=
dbd01ced8ae224adb856f280e46b4aa6&platform=android&gmp_version
=17786
<<<< HTTP 200, 1.14KB
GET https://play.googleapis.com/play/log/timestamp
<<<< HTTP 200, 13.00B
  Set-Cookie: NID=204=hWfAruzVXumkgKbFbc...24qgGtczI; expires=Tue,
01-Jun-2021 21:44:56 GMT; path=/; domain=.play.googleapis.com;
HttpOnly
GET https://android.clients.google.com/fdfe/preloads?doc=android.
autoinstalls.config.google.nexus&build_fingerprint=google%2Fwalleye%2
Fwalleye%3A10%2FQP1A.190711.019%2F5790879%3Auser%2Frelease-
keys
Headers
  user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D
%20337959405 (api=3,versionCode=82242510,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buidId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  x-dfe-device-id: 35ca6a89e6662742
  x-dfe-device-config-token: CisaKQoTMzg3N...NzcyNjg2ODE1NzAy
  x-dfe-device-checkin-consistency-token:
H4sIAAAAAAAAAAJ...QN1qbW-
  x-dfe-data-service-subscriber: H4sIAAA...AAAA
  x-dfe-phenotype: H4sIAAAAAA...KBGX/AQ
POST https://app-measurement.com/a
POST body decoded as protobuf:
<...>
  14: "com.android.vending"
  16: "22.4.25-21 [0] [PR] 337959405"
  17: 33019
  18: 17786
  19: "8f29ff...f7804a3bd"
  20: 0
  21: "dbd01ced8ae224adb856f280e46b4aa6"
  22: 12815...134672363
  23: 1
  25: "1:327451421140:android:9c547b5ed466b580"
  28: 1
  30: "f7wtUnM4ELM"
<...>
<< HTTP 204, 0.00B
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: Android/com.android.vending/22.4.25-21 [0] [PR]
337959405
  Cookie: NID=204=MZzSuI9jLzfP1A...4yDs81kb2g;
POST body decoded as protobuf:
<...>
<device info>
<...>
<<<< HTTP 200, 11.00B
GET https://app-measurement.com/config/app/1%3A493454522602%3
Aandroid%3A4877c2b5f408a8b2?app_instance_id=
ba888f690100a811ce140fe5548d4554&platform=android&gmp_version
=17786
<<<< HTTP 200, 4.87KB
GET https://r2---sn-q0c7m76.gvt1.com/play-apps-download-default/
download/by-id/AF3DWBd7LwDQllXqL...cZvih3A?cpn=
xbzFd4uUvFUjIFp8&initcwndbps=12630&mh=Lm&mm=31&mn=sn-
q0c7m76&ms=au&mt=1606772208&mv=m&mvi=2&pl=19&expire
=1606945496&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q;
initcwndbps,mh,mm,mn,ms,mv,mvi,pl&signature=BAE6D89399...8615184E
&key=am3
Headers
  User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10;
Pixel 2 Build/QP1A.190711.019)
<<<< HTTP 200, 6.67MB
OPTIONS https://beacons.gcp.gvt2.com/domainreliability/upload-nel
POST https://beacons.gcp.gvt2.com/domainreliability/upload-nel

```



## Headers

```

user-agent: com.android.vending/82242510 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/87.0.4280.13)
{"age":0,"body":{"elapsed_time":460,"method":"GET","phase":"","application
","protocol":"h2","referrer":"","sampling_fraction":0.05,"server_ip
":"74.125.193.100","status_code":200,"type":"ok"},"type":"network-error","
url":"https://android.clients.google.com/dfde/preloads?doc=android.
autoinstalls.config.google.nexus&build_fingerprint=google%2Fwalleye%2
Fwalleye%3A10%2FQP1A.190711.019%2F5790879%3Auser%2Frelease-
keys","user_agent":"Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%
5D%20337959405 (api=3,versionCode=82242510, sdk=29, device=walleye,
hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel
%202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)"}

```

&lt;&lt;&lt;&lt; HTTP 200, 0.00B

POST https://app-measurement.com/a

POST body decoded as protobuf:

&lt;...&gt;

```

13: "manual_install"
14: "com.google.android.apps.maps"
16: "10.16.7"
17: 16250
18: 17786
19: "8f29ff...f7804a3bd"
20: 0
21: "ba888f690100a811ce140fe5548d4554"
22: 12815...134672363

```

&lt;...&gt;

30: "dxlZIRG9g4U"

&lt;...&gt;

&lt;&lt;&lt;&lt; HTTP 204, 0.00B

GET https://safebrowsing.googleapis.com/v4/threatListUpdates:fetch?&amp;ct=application%2Fxml-protobuf&amp;req=ChMKB0dtc0NvmU...YRI1dIww

```

GET https://android.clients.google.com/dfde/preloads?doc=android.
autoinstalls.config.google.nexus&build_fingerprint=google%2Fwalleye%2
Fwalleye%3A10%2FQP1A.190711.019%2F5790879%3Auser%2Frelease-
keys

```

## Headers

```

user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%
20337959405 (api=3,versionCode=82242510, sdk=29, device=walleye,
hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel
%202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)

```

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3N...NzcyNjg2ODE1NzAy

x-dfe-device-checkin-consistency-token:

H4sIAAAAAAAAAAJ...QN1qbW-

x-dfe-data-service-subscriber: H4sIAAA...AAAA

x-dfe-phenotype: H4sIAAAAAAAAAAF...oDkQHKBGX/AQ

```

POST https://www.googleapis.com/experimentsandconfigs/v1/
getExperimentsAndConfigs?r=6

```

## Headers

X-SERVER-TOKEN: CAESKQDyih0h8i9i...IHVVaGWZmTu

POST body decoded as protobuf:

&lt;...&gt;

1: 3876027569814251330

&lt;device details&gt;

5: "204=MZzSu19jLzfP1A...4yDs81kb2g"

&lt;...&gt;

```

POST https://android-safebrowsing.google.com/safebrowsing/clientreport/
download-multi

```

## Headers

```

user-agent: Android-Finsky/22.4.25-21 [0] [PR] 337959405 (
versionCode=82242510, sdk=29, device=walleye, hardware=walleye, product=
walleye, build=QP1A.190711.019; user)

```

POST body decoded as protobuf:

&lt;...&gt;

13: 35ca6a89e6662742

23: "3f97c722-9f47-4af1-8df1-c1fda576c18a"

&lt;...&gt;

3: "3f97c722-9f47-4af1-8df1-c1fda576c18a"

4: "CgbcMrRWPj0S6ScKBnFJuu...ADlGA"

&lt;...&gt;

GET https://www.gstatic.com/gpp-server/r2\_20200807

## Headers

```

user-agent: com.android.vending/82242510 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/87.0.4280.13)

```

&lt;&lt;&lt;&lt; HTTP 200, 772.00B

&lt;and more similar&gt;

GET https://android.clients.google.com/dfde/deviceSettings

## Headers

```

user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%
20337959405 (api=3,versionCode=82242510, sdk=29, device=walleye,
hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel
%202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)

```

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3N...NzcyNjg2ODE1NzAy

x-dfe-data-service-subscriber: H4sIAAA...AAAA

x-dfe-phenotype: H4sIAAAAAAAAAAF...BXeoDkQHKBGX/AQ

GET https://android.clients.google.com/dfde/delivery?doc=android.

```

autoinstalls.config.google.nexus&ot=1&vc=1000&bv=1&pf=1&pf=2&pf
=3&pf=4&pf=5&pf=7&bf=0&fdcf=1&fdcf=2&ch=4

```

```

wkyazMs5mp2qPUI4MeBHKfWPU&dtok=AB-xQnpOW73...g4JsCJWL1&
ia=false&isid=cO88K6IMRN2kNuwdn71G_w&nocache_qos=lt

```

Headers

```

user-agent: Android-Finsky/22.4.25-21%20%5B0%5D%20%5BPR%5D%
20337959405 (api=3,versionCode=82242510, sdk=29, device=walleye,
hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel
%202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)

```

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3N...NzcyNjg2ODE1NzAy

x-dfe-device-checkin-consistency-token:

H4sIAAAAAAAAAAJ...QN1qbW-

x-dfe-phenotype: H4sIAAAAAAAAAAF...kQHKBGX/AQ

GET https://gstatic.com/matchmaker/template\_table/19010802/2/en-us/

```

template_table_main_0c27eb5b51312d80b7e2b8e638c2a046.zip

```

## Headers

user-agent: superpacks

&lt;&lt;&lt;&lt; HTTP 301, 320.00B

GET https://connectivitycheck.gstatic.com/generate\_204

&lt;&lt;&lt;&lt; HTTP 204, 0.00B

GET https://www.gstatic.com/matchmaker/template\_table/19010802/2/en-us/

```

template_table_main_0c27eb5b51312d80b7e2b8e638c2a046.zip

```

## Headers

user-agent: superpacks

&lt;&lt;&lt;&lt; HTTP 200, 975.00B

GET https://connectivitycheck.gstatic.com/generate\_204

&lt;&lt;&lt;&lt; HTTP 204, 0.00B

GET https://gstatic.com/webref-ondevice/aiai/20111701/2/en-us/

```

superpacks_manifest.zip

```

## Headers

user-agent: superpacks

&lt;&lt;&lt;&lt; HTTP 301, 282.00B

GET https://www.gstatic.com/webref-ondevice/aiai/20111701/2/en-us/

```

superpacks_manifest.zip

```

## Headers

user-agent: superpacks

&lt;&lt;&lt;&lt; HTTP 200, 201.02KB

GET https://pai.googlezip.net/download/by-token/download?token=

```

AOTCm0RB...D1gY-qzBM&cpn=3iFyOO8W-qVIXJtu

```

## Headers

```

user-agent: Android-Finsky/22.4.25-21 [0] [PR] 337959405 (
versionCode=82242510, sdk=29, model=Pixel_2, engine=OkHttp)

```

GET https://connectivitycheck.gstatic.com/generate\_204

&lt;&lt;&lt;&lt; HTTP 204, 0.00B

GET https://www.gstatic.com/webref-ondevice/aiai/20111701/2/en-us/

```

global_f699401badb471fb30a70482f019e7ef.zip

```

## Headers

user-agent: superpacks

&lt;&lt;&lt;&lt; HTTP 200, 10.22MB

GET https://www.google.com/async/ddljson?async=\_fmt:pb&amp;client=ms-

```

android-google&hl=en-US&oe=utf-8&safe=images&gcc=ie&ctzn=Europe
%2FDublin&ctf=0&v=9.91.14.21.arm64&ntyp=1&ram_mb=3656

```

## Headers

x-client-opt-in-context: H4sIAAAAA...DAJ3NFgBWA AAAA

x-client-data: aqUDH4sIAAAAA...d5g5lxlGAAA

&lt;&lt;&lt;&lt; HTTP 200, 0.00B

POST https://www.google.com/m/voice-search/down?pair=a1475369-20dd

```

-42d8-862c-75b311ef95d8

```

POST https://www.google.com/m/voice-search/up?pair=a1475369-20dd-42

```

d8-862c-75b311ef95d8

```

POST body:



```

b"\x00\x00\xc5H#\xf5\xc8\x05...\x10\x01\x18\x01"
<<< HTTP 401, 1.60KB
POST https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.
AssetLinks/Check
POST body:
b"\x00\x00\x00\x00\xc5\x12*delegate_permission/common.
handle_all_urls*\x1b\n\x19\n\x17https://play.google.com2z\x12x\n\x
x13com.android.vending\x12a\n_F0:FD:6C:5B:41:0F:25:CB:25:C3:B5
:33:46:C8:97:2F:AE:30:F8:EE:74:11:DF:91:04:80:AD:6B:2D:60:DB:83"
POST body decoded as protobuf:
Failed
<<< HTTP 200, 8.44KB
POST https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.
AssetLinks/Check
POST body:
b"\x00\x00\x00\x00\xc8\x12*delegate_permission/common.
handle_all_urls*\x1e\n\x1c\n\x1ahttps://market.android.com2z\x12x\n\x
x13com.android.vending\x12a\n_F0:FD:6C:5B:41:0F:25:CB:25:C3:B5
:33:46:C8:97:2F:AE:30:F8:EE:74:11:DF:91:04:80:AD:6B:2D:60:DB:83"
<<< HTTP 200, 8.59KB
GET https://connectivitycheck.gstatic.com/generate_204
<<< HTTP 204, 0.00B
POST https://android.clients.google.com/c2dm/register3
Headers
  Authorization: AidLogin 3876027569814251330:4707843177977026675
  app: com.android.vending
  gcm_ver: 17786048
  User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)
X-subtype=932144863878&sender=932144863878&X-app_ver
=82284210&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=17786048&X-appid
=dHVKOSLRPFo571S8ynLFp9&X-scope=*X-Goog-Firebase-
Installations-Auth=eyJhbGciOiJIJFZl...V5GdacDg&X-gmp_app_id=1%3
A221571841318%3Aandroid%3A9c547b5ed466b580&X-firebase-app-
name-hash=R1dAH9Uj7M-ynoznwBdw01LxhI&X-app_ver_name
=22.8.42-21+%5B0%5D+%5BPR%5D+342741419&app=com.android.
vending&device=3876027569814251330&app_ver=82284210&info=s-
xTeoyqJEUQQKri541rkWVljs2xYRC&gcm_ver=17786048&plat=0&cert
=38918a45...ed5788&target_ver=29
<<< HTTP 200, 169.00B
The Auth value is a jwt token that decodes to give the firebase id "fid":
"dHVKOSLRPFo571S8ynLFp9"
POST https://android.clients.google.com/fdfe/uploadDeviceConfig
Headers
  user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  x-dfe-device-id: 35ca6a89e6662742
  x-dfe-device-checkin-consistency-token:
H4sIAAAAAAAAAAJ...QN1qbW-
  x-dfe-phenotype: <...>H4sIAAAAAAAAAAB3OS...Fd6gORAcOZf8B
POST body decoded as protobuf:
<list of installed software>
<language details>
<GPU details>
<hardware capabilities>
<device details>
POST https://www.googleapis.com/experimentsandconfigs/v1/
getExperimentsAndConfigs?r=1&c=128
Headers
  User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi) (walleye QP1A.190711.019); gzip
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details>
28: "H4sIAAAAAAAAAAJ...QN1qbW-"
<list of installed software>
<language details>
<GPU details>
<hardware capabilities>
POST https://www.googleapis.com/experimentsandconfigs/v1/

```

```

getExperimentsAndConfigs?r=14&c=128
Headers
  User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi) (walleye QP1A.190711.019); gzip
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details>
28: "H4sIAAAAAAAAAAJ...QN1qbW-"
<...>
GET https://connectivitycheck.gstatic.com/generate_204
<<< HTTP 204, 0.00B
POST https://www.googleapis.com/experimentsandconfigs/v1/
getExperimentsAndConfigs?r=14&c=128
Headers
  User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi) (walleye QP1A.190711.019); gzip
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details>
28: "H4sIAAAAAAAAAAJ...QN1qbW-"
<...>
GET https://android.clients.google.com/fdfe/selfUpdate?ex=1&susp=
EAEYASAC&nocache_qos=lt
Headers
  user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  x-dfe-device-id: 35ca6a89e6662742
  x-dfe-device-config-token: CisaKQoTMz3Nj...zcyNzQwNzUxMzAy
  x-dfe-phenotype: <...>H4sIAAAAAAAAAAB3OS...Fd6gORAcOZf8B
GET https://android.clients.google.com/fdfe/delivery?doc=com.android.
vending&ot=1&vc=82284210&bvc=82284210&pf=3&pf=5&da=2&bda=2&
shh=zen2IIInK1Sx2swLcCn16w&ch=OJGKRT0HGZNU-LG8F7GViztV4g
&isbg=1&isid=TIBFvfuQLCzSE3g8eGDQQ&nocache_qos=lt
Headers
  user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  x-dfe-device-id: 35ca6a89e6662742
  x-dfe-device-config-token: CisaKQoTM...NzUxMzAy
  x-dfe-device-checkin-consistency-token:
H4sIAAAAAAAAAAJ...QN1qbW-
  x-dfe-phenotype: <...>H4sIAAAAAAAAAAB3OS...Fd6gORAcOZf8B
POST https://android.clients.google.com/fdfe/accountSync?nocache_qos=lt
Headers
  user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
  x-dfe-device-id: 35ca6a89e6662742
  x-dfe-device-config-token: CisaKQoTM...NzUxMzAy
  x-dfe-device-checkin-consistency-token:
H4sIAAAAAAAAAAJ...QN1qbW-
  x-dfe-phenotype: <...>H4sIAAAAAAAAAAB3OS...Fd6gORAcOZf8B
POST body decoded as protobuf:
1 {
1: "dHVKOSLRPFo571S8...35D7araqXOTpK9e" // Firebase id of
Google Play store app
}
GET https://play.googleapis.com/play/log/timestamp
<<< HTTP 200, 13.00B
Set-Cookie: NID=204=qn_4MqZ9sBW...wXhIqFZWys; expires= Tue, 01-
Jun-2021 21:45:49 GMT; path=/; domain=.play.googleapis.com; HttpOnly

```

**POST** https://play.googleapis.com/play/log?format=raw&proto\_v2=true  
 Headers  
 User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419  
**POST** body decoded as protobuf:  
 <...>  
 1: **3876027569814251330**  
 <device details>  
 <...>  
 14: **"8f29ff...f7804a3bd"**

**GET** https://play.googleapis.com/download/by-token/download?token=AOTCm0QDokD...Iqz7zyN7U&cpn=mCmCmQiyNPrFxQH&isid=TIBFvfuQLCzSE3g8eGDQQ&isbg=1  
 Headers  
 User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10; Pixel 2 Build/QP1A.190711.019)  
 <<< HTTP 302, 0.00B  
**GET** https://play.googleapis.com/play/log/timestamp  
 <<< HTTP 200, 13.00B  
**Set-Cookie:** NID=204=zBJ7ORlrF\_PaYC...NdIibVI; expires=Tue, 01-Jun-2021 21:45:50 GMT; path=/; domain=play.googleapis.com; HttpOnly  
**GET** https://android.clients.google.com/fdfe/preloads?doc=android.autoinstalls.config.google.nexus&build\_fingerprint=google%2Fwalleye%2Fwalleye%3A10%2FQP1A.190711.019%2F5790879%3Auser%2Frelease-keys  
 Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)  
 x-dfe-device-id: **35ca6a89e6662742**  
 x-dfe-device-config-token: CisaKQoTM...NzUxMzAy  
 x-dfe-device-checkin-consistency-token:  
**H4sIAAAAAAAAAAJ...QN1qbW-**  
 x-dfe-data-service-subscriber: **H4sIAAAA...AAAA**  
 x-dfe-phenotype: H4sIAAAAAAAAA...AAA  
 x-dfe-encoded-targets: CAESGLOVgQb...f8B

**POST** https://play.googleapis.com/play/log?format=raw&proto\_v2=true  
 Headers  
 User-Agent: Android/com.android.vending/22.8.42-21 [0] [PR] 342741419  
 Cookie: NID=204=MZzSu19jLzFP1A...4yDs81kb2g;  
**POST** body decoded as protobuf:  
 <device details>  
 <...>

**GET** https://r5---sn-q0cedn7s.gvt1.com/play-apps-download-default/download/by-id/AF3DWBfKzGpZLDiMDFxTo...aikl0g?cpn=mCmCmQiyNPrFxQH&initwndbps=12930&mh=xm&mm=31&mn=sn-q0cedn7s&ms=au&mt=1606772208&mv=m&mvi=5&pl=19&expire=1606945550&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q;initwndbps,mh,mm,mn,ms,mv,mvi,pl&signature=10DE7E1...49718&key=am3

Headers  
 User-Agent: AndroidDownloadManager/10 (Linux; U; Android 10; Pixel 2 Build/QP1A.190711.019)  
 <<< HTTP 200, 288.40KB  
**GET** https://android.clients.google.com/fdfe/delivery?doc=android.autoinstalls.config.google.nexus&ot=1&vc=1000&bvc=1&pf=1&pf=2&pf=3&pf=4&pf=5&pf=7&bf=0&fdcf=1&fdcf=2&ch=4wkyazMs5mp2qPU14MeBHKfWPU&dtok=AB-xQnp...FR6&ia=false&isid=W1WCa\_tzQ\_WO\_xaniQHfIA&nocache\_qos=lt  
 Headers  
 user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)  
 x-dfe-device-id: **35ca6a89e6662742**  
 x-dfe-device-config-token: CisaKQoTM...NzUxMzAy  
 x-dfe-device-checkin-consistency-token:  
**H4sIAAAAAAAAAAJ...QN1qbW-**  
 x-dfe-phenotype: H4sIAAAAAAAAA...QEAAA  
 x-dfe-encoded-targets: CAESGL...oEZf8B  
**GET** https://connectivitycheck.gstatic.com/generate\_204  
 <<< HTTP 204, 0.00B

**GET** https://pai.googlezip.net/download/by-token/download?token=AOTCm0Sh...gY&cpn=wz4mwkE9aZ0N9t67  
 Headers  
 user-agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (versionCode=82284210,sdk=29,model=Pixel 2,engine=Cronet;quic=1;http2=1;nel=0;hr=1)

**GET** https://connectivitycheck.gstatic.com/generate\_204  
 <<< HTTP 204, 0.00B  
**POST** https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.AssetLinks/Check  
**POST** body:  
 b`x00\x00\x00\x00\xc8\x12\*delegate\_permission/common.handle\_all\_urls\*\x1e\n\x1c\n\x1ahttps://market.android.com2z\x12x\n\x13com.android.vending\x12a\n\_F0:FD:6C:5B:41:0F:25:CB:25:C3:B5:33:46:C8:97:2F:AE:30:F8:EE:74:11:DF:91:04:80:AD:6B:2D:60:DB:83`  
**POST** https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.AssetLinks/Check  
**POST** body:  
 b`x00\x00\x00\x00\xc5\x12\*delegate\_permission/common.handle\_all\_urls\*\x1b\n\x19\n\x17https://play.google.com2z\x12x\n\x13com.android.vending\x12a\n\_F0:FD:6C:5B:41:0F:25:CB:25:C3:B5:33:46:C8:97:2F:AE:30:F8:EE:74:11:DF:91:04:80:AD:6B:2D:60:DB:83`  
**POST** body decoded as protobuf:  
 Failed

<<< HTTP 200, 8.44KB  
**GET** https://connectivitycheck.gstatic.com/generate\_204  
**POST** https://android.clients.google.com/fdfe/uploadDynamicConfig  
 Headers  
 user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)  
 x-dfe-device-id: **35ca6a89e6662742**  
 x-dfe-device-checkin-consistency-token:

**H4sIAAAAAAAAAAJ...QN1qbW-**  
 x-dfe-phenotype: <...>**H4sIAAAAAAAAAAB...AcoEZf8B**

**POST** body decoded as protobuf:  
 1 {  
 1: "GMT+00:00"  
 2: ""  
 4: **"dHVKO5LRpFOs71S8...35D7araXOTpK9e"** *// Firebase id of Google Play store app*  
 }

**GET** https://connectivitycheck.gstatic.com/generate\_204  
 <<< HTTP 204, 0.00B  
**GET** https://play.googleapis.com/play/log/timestamp  
 <<< HTTP 200, 13.00B

**Set-Cookie:** NID=204=GGHBkK4zuxAu...w829g; expires=Tue, 01-Jun-2021 21:51:03 GMT; path=/; domain=play.googleapis.com; HttpOnly  
**POST** https://play.googleapis.com/play/log?format=raw&proto\_v2=true  
 Headers  
 User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419

**POST** body decoded as protobuf:  
 <...>  
 1: **3876027569814251330**

<device details>  
 <...>  
 14: **"8f29ff...f7804a3bd"**  
 <...>

**GET** https://play.googleapis.com/play/log/timestamp  
 <<< HTTP 200, 13.00B  
**Set-Cookie:** NID=204=XOOgRZfN\_g...FZogiO4I; expires=Tue, 01-Jun-2021 21:51:03 GMT; path=/; domain=play.googleapis.com; HttpOnly  
**POST** https://play.googleapis.com/play/log?format=raw&proto\_v2=true  
 Headers  
 User-Agent: Android/com.android.vending/22.8.42-21 [0] [PR] 342741419

Cookie: NID=204=MZzSu19jLzFP1A...4yDs81kb2g;  
**POST** body decoded as protobuf:  
 <...>

<device details> 18: 18113913957644263262  
 <...>

**GET** https://connectivitycheck.gstatic.com/generate\_204  
 <<< HTTP 204, 0.00B  
**GET** https://connectivitycheck.gstatic.com/generate\_204

```

<<<< HTTP 204, 0.00B
GET https://play.googleapis.com/play/log/timestamp
<<<< HTTP 200, 13.00B
Set-Cookie: NID=204=plOfJo4p3miG5wL2CcsfZMNtREfJ-JI_EKd-
h5243oAo4xuAAi1Jm-
Wox8GEqwtuUWcumfAQIITfk_HN3wtof1sQGgOnjKhJBFHAoDwATdLREpJxE3sE_CoM=MZzSuI9jLzfP1A...4yDs81kb2g"
-m0UpkkJf6Mv-5AgjpRG-ATGcR1OWYxl7VCIZ9iQ-Fx2d-gkc; expires=
Tue, 01-Jun-2021 22:06:24 GMT; path=/; domain=play.googleapis.com;
HttpOnly
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
User-Agent: Android/com.android.vending/22.8.42-21 [0] [PR]
342741419
Cookie: NID=204=MZzSuI9jLzfP1A...4yDs81kb2g;
POST body decoded as protobuf:
<device details><...>
GET https://connectivitycheck.gstatic.com/generate_204
<<<< HTTP 204, 0.00B
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5
D%20342741419
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details>
<...>
14: "8f29ff...f7804a3bd"
1<...>
GET https://www.googleapis.com/android_video/v1/config?make=Google&
model=Pixel%202&product=walleye&device=walleye&device=
3876027569814251330&apptype=1&devtype=1&fs=f
Headers
User-Agent: com.google.android.videos/4.4.43(Linux; U; Android 10;
en_US; Pixel 2 Build/QP1A.190711.019) gzip
<<<< HTTP 200, 7.28KB
POST https://play.googleapis.com/log/batch
Headers
X-SERVER-TOKEN: CAESKQ...gy5f8JUPTaTxZ
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
<...>
<...>
5: "S\010\36...\020\000"
6: "BUGLE_COUNTERS"
<...>
Set-Cookie: NID=204=JDGo-eArJlrAsjLL...0UQeL3vYXow; expires=Tue,
01-Jun-2021 22:39:51 GMT; path=/; domain=googleapis.com; HttpOnly
POST https://play.googleapis.com/log/batch
Headers
X-SERVER-TOKEN: CAESKQ...gy5f8JUPTaTxZ
Cookie: NID=204=JDGo-eArJlrAsjLL...0UQeL3vYXow
User-Agent: Android/com.google.android.gms/17786048 (walleye QP1A
.190711.019); gzip
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
<...>
5: ";\010\240\255...\020\000"
6: "PSEUDONYMOUS_ID_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 18446744073709551615
<...>
6: "ANDROID_AUTH"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
<...>
5: "243\001\0...16\022*12.0.199517396-
carrierservices_V12W_1_RC27\03...0\006\003
UNKNOWN_SIM_CALL_MANAGER@\002x\00... \020\000"
6: "CARRIER_SERVICES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
}
4: 1606775990209
5: "\206\00...000"
6: "CARRIER_SERVICES_ANDROID_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
<...>
"6\010\267\262\3... \020\000"
6: "ANDROID_MESSAGING"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
<...>
\010\313\206...020\000"
6: "BUGLE_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
<...>
5: "226\001\010\341\262\363\330\341.2p*[\ncom.google.
android.apps.messaging\022\3... \020\000"
6: "ANDROID_MESSAGING_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
<...>
5: "p\010\377\265\363\330\341.2j*5\n\035com.google.
intelligence.sense\022\... \020\000"
6: "PIXEL_AMBIENT_SERVICES_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 18446744073709551615
<...>
5: "x\010\304\271\363\330\341.\022\tiapists2B:1\n\n\035com
.google.intelligence.sense\020... \020\000"
6: "ICING"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 18446744073709551615
<...>
5: "224\001\010\310\2... \n\024TURBO_ANDROID_PRIMES
\030\001 \001(\000x\000\202\001\002\030\0...32\033\n\023
GOOGLE_NOW_LAUNCHER\030\001 \000...\020\000"
6: "PIXEL_AMBIENT_SERVICES_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
5: "|\010\3...2\031\n\021CLEARCUT_LOG_LOSS
\030... \001\020\000"
<...>
5: "g\010\311\272\... \032%\n\035
PIXEL_AMBIENT_SERVICES_PRIMES\030\001 \001(\000x
\...010\001\020\000"
<...>
5: "Y\01...6\n\016ANDROID_DIALER\030\001 \001...4\n\024
GMAIL_ANDROID_PRIMES\030... \n\016WIFI_ASSISTANT\030\... \022
WESTWORLD_COUNTERS\030... \n\014APP_USAGE_1P\030... \n\006
NETREC\030... \n\014GAL_PROVIDER\030... \n\010GMS_CORE
\030... \020\000"

```

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<...>
5: "...n\017GMS_CORE_PEOPLE\030...\n\021
CLEARCUT_LOG_LOSS\030...\013ANDROID_GSA\030...\n\030
SAFETYHUB_ANDROID_PRIMES\030...\n\014GMM_COUNTERS
\030...\020\000"
<...>
5: "U\0...22\n\nMATCHSTICK\030...1\n\tpHENOTYPE\030...\026\n
\016BUGLE_COUNTERS\030...\021\n\tLATIN_IME\030...\020\000"
<...>
5: "S\01...20\n\010DL_FONTS\030...\032\026\n\016
ANDROID_BACKUP\030...\021COPRESENCE_NO_IDS\030...\n\024
MAGICTETHER_COUNTERS\030...\020\000"
<...>
5: ""\010\31...2\033\n\023CLIENT_LOGGING_PROD\030...\024
EASY_UNLOCK_COUNTERS\030...\024ACTIVITY_RECOGNITION
\030...\n\030GOOGLE_KEYBOARD_COUNTERS\030...\031
ANDROID_CONTACTS_COUNTERS\030\020\000"
<...>
5: "W\01...4\n\014BEACON_GCORE\030...\032""\n\032
ANDROID_IME_ANDROID_PRIMES\030...\020\000"
<...>
5: ""\010...272\001\004\010\001\020\000"
6: "METALOG_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
12: 18446744073709551615
<...>"1\010\336\277\3...\020\000"
6: "SENSE_DND"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 18446744073709551615
<...>
5: "7\010\35...020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 18446744073709551615
<...>
1: 3876027569814251330
<device details>
<...> 5: ""\226\001\010\336\373\363\330\341.2Y*D\n\035com.google
.android.apps.turbo\022\0271.9.0.247950067.release\030...\020\000"
6: "TURBO_ANDROID_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> 12: 1606770600
}
4: 1606775990209
5: ""\223\003\010\34...com.google.android.apps.wellbeing*\r1
.0.2503085232\0020\00... \000\022\rBinder:9104_3\030\204\007""Vcom
.google.android.apps.wellbeing.appconfig.limit.impl.
AppUsageLimitObserverApiWrapper*0
getDeprecatedRegisterAppUsageLimitObserverMethod2mUsageStatsManager
#registerAppUsageLimitObserver(int, String[], long, TimeUnit,
PendingIntent) does not exist:\n\n\010api_callX\266\310\220\326\001x
\00...000"
6: "CLIENT_LOGGING_PROD"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 1606770600
}
4: 1606775990209
5: ""\234\001\010\360\20...1\020\000"
6: "WESTWORLD_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> 12: 1606770600
}
4: 1606775990209
5: "S\01...20\n\010DL_FONTS\030...\032\026\n\016
ANDROID_BACKUP\030...\021COPRESENCE_NO_IDS\030...\n\024
MAGICTETHER_COUNTERS\030...\020\000"
<...>
5: ""\010\31...2\033\n\023CLIENT_LOGGING_PROD\030...\024
EASY_UNLOCK_COUNTERS\030...\024ACTIVITY_RECOGNITION
\030...\n\030GOOGLE_KEYBOARD_COUNTERS\030...\031
ANDROID_CONTACTS_COUNTERS\030\020\000"
<...>
5: "W\01...4\n\014BEACON_GCORE\030...\032""\n\032
ANDROID_IME_ANDROID_PRIMES\030...\020\000"
<...>
5: ""\010...272\001\004\010\001\020\000"
6: "METALOG_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
12: 1606770600
<...>
5: "p\010\350\216\364\330\341.2B""@
\030\324\216\364\330\341.""4\n\007walleye\022\007Pixel
2\032\00210""\017QP1A.190711.019*\0000\004:\002ie@
\377\0008...\020\000"
6: "ANDROID_DIALER"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
<...> 6: "SETTINGS_INTELLIGENCE_ANDROID_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
<...>"_\010\312\222\364\330\341.2.\n\031\n\025com.google.android.
as\020\0...020\000"
6: "BRELLA"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: ""\257...001\n\n(com.google.android.settings.intelligence\022(com.
google.android.settings.intelligence\030...\034\n\024extra_wifi_connected
\022\002...037\n\027extra_wifi_disconnected\022\002...\001\022\036/
usercontext/v1/controllerhub/\030\000X\003x\000... \001\022\036/
usercontext/v1/controllerhub/\030\001*...\n\026com.google.android.gms
\022\037com.google.android.gms.herrevad\030\002
\220\311\275\010\001\020\005B\006\n
\002\0109\020\001""&\010\370\322\001\022\036/usercontext/v1/
controllerhub/\030...\020\000"
6: "CONTEXT_MANAGER"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
<...> 5: ""\200\001\010\321\252\364\330\341.2U*@\ncom.google.
android.apps.safetyhub\022\02... \020\000"
6: "SAFETYHUB_ANDROID_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
<...> 5: ""\374\0... \020\000"
6: "CALENDAR_UNIFIED_SYNC"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
2: ""
<device details> 12: 1606770600
<...>
6: "DRIVE"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }

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<...> 6: "MAGICTETHER_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...> "N\010\217\360\...0\001\020\000"
6: "MATCHSTICK"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...> 5: "207\001\010\270\360\364\330\341.2P*;\n\033com.google.
android.apps.gcs\022\0253.5 prod ... \020\000"
6: "WIFI_ASSISTANT_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: "p\010\314\361\3... \020\000"
6: "WIFI_ASSISTANT"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 1606770600
}
4: 1606775990209
5: "F\010\221\362... \020\000"
6: "EASY_UNLOCK_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
"E\010\205\370\3...0\000"
6: "ANDROID_VERIFY_APPS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: ";\010\270\2... \020\000"
6: "WALLPAPER_PICKER_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: "225\001\010\202\206\365\330\341.2j
\005\010\363\001\020\000*7\n\025com.google.android.gm
\022\0278.5.6.199637500.release\030\001 \227\370\237jr\004\n\002@
\000\212\001\024Application.onCreate\272\001... \020\000"
6: "GMAIL_ANDROID_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
4: 1606775990209
5: "E\010\370\254\365\330\341.2\037\002ie2\031\n
\027\010\001\022\023com.android.vendingx\000\210\001... \020\000"
6: "ANDROID_VERIFY_APPS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...> 5: "i\010\322\326\... \020\000"
6: "DL_FONTS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...> 5: "E\010\270\352\365\330\341.2\037\002ie2\031\n
\027\010\001\022\023com.android.vendingx\000... \020\000"
6: "ANDROID_VERIFY_APPS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...> 5: "8\010\2... \020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...> 5: "\221\001\010\341\374\365\330\341.2T*?\n\035com.google.
android.apps.turbo\022\0... \020\000"
6: "TURBO_ANDROID_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: "343\001...199517396-carrierservices_V12W_1_RC27
\0326\010\350\313\340\017\022\3.3.039 (Xylophone_RC18_xxhdp.
arm64-v8a.phone)\002\n\000r
/\010\363\266\367\343\204\343\366\210\364\001\020\300\367
\030\010\030UNKNOWN_SIM_CALL_MANAGER@\002x
\00... \020\000"
6: "CARRIER_SERVICES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: "234\001\010\320\2... \020\000"
6: "WESTWORLD_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: "S\010\245\213\366\330... \020\000"
6: "BUGLE_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: "\010\345... \020\000"
6: "ANDROID_MESSAGING"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: "226\001\010\37...020\000"
6: "ANDROID_MESSAGING_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
5: "\273\002\...2\326\001\n]\n(com.google.android.settings.intelligence
\022(com.google.android.settings.intelligence\030\002
\260\374\340\010\001\020\007Rs\n6\010\002\022\034\n\024
extra_wifi_connected\022\0...2\037\n\027extra_wifi_disconnected
\022\002...01\022\036/usercontext/v1/controllerhub/\... \020\000"
6: "CONTEXT_MANAGER"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
5: "I\010\201\224\366\330\341.2A\n,\n(com.google.android.settings.
intelligence\020\001... \020\000"
6: "BRELLA"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
6: "ANDROID_CONTACTS_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>

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1: 3876027569814251330
<device details>
<...>
5: "\265\001\010\330\233\366\330\341.2G*2\n\031com.google.
android.dialer\022\01625.0.218361296\03...\020\000"
6: "DIALER_ANDROID_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
}
4: 1606775990209
5: "\263\001\010\370...\004\010\001\020\000"
6: "ANDROID_DIALER"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
}
4: 1606775990209
5: "\374\001\0...004\010\001\020\000"
6: "CALENDAR_UNIFIED_SYNC"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
}
4: 1606775990209
5: "\317\013\010\301\265...\020\000"
6: "ICING"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
<...>
"\256\002\01...0\000"
6: "ANDROID_GSA"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
<...>
5: "F\010\332\277\3...0\001\020\000"
6: "MAGICTETHER_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
<...>
5: "F\010\263\303\366\330\34...01\020\000"
6: "EASY_UNLOCK_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
<...>
5: "F
\010\217\3...0\202\001\023\022\017\010\003\022\013\025\016\345\367\222\1606775990983
r\014\005\016\033\r
\030\001\210\001\221\202\250\001\226\212\200\200\200\200\200\200\206\001\268\001\002\001\001\004\010\001\020\000"
6: "MATCHSTICK"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
}
<...>
6: "ANDROID_AUTH"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
5: "\207\001\010\355\351\366\330\341.2P*;\n\033com.google.
android.apps.gcs\022\0253.5 prod (4003 sdk29)\03...\020\000"
6: "WIFI_ASSISTANT_PRIMES"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
<...>
1: 3876027569814251330
<device details>
5: "\n\010\205\264\367\...001\020\000"
6: "ANDROID_CONTACTS_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
POST https://play.googleapis.com/log/batch
Headers
X-SERVER-TOKEN: CAESKQ...gy5f8JUpTaTxZ
POST body decoded as protobuf:
<...>
<device details> }
12: 18446744073709551615
<...>
6: "AUDIT"
<<< HTTP 200, 91.00B
POST https://play.googleapis.com/log/batch
Headers
X-SERVER-TOKEN: CAESKQ...gy5f8JUpTaTxZ
Cookie: NID=204=JDGo-eArJlrAsjLL...0UQeL3vYXow
User-Agent: Android/com.google.android.gms/17786048 (walleye QP1A
.190711.019); gzip
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details> }
12: 18446744073709551615
<...>
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 18446744073709551615
}
4: 1606775990983
5: "\205\001\010...\020\000"
6: "PHENOTYPE_COUNTERS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 18446744073709551615
}
4: 1606775990983
5: ";\010\355\...\020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
<...>
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details> }
12: 1606770600
}
5: "M\010\24...\020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<...>
1: 3876027569814251330
<device details>
}
4: 1606775990983
5: ";\010\203\362...\020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=MZzSuI9jLzfP1A...4yDs81kb2g"
<<<< HTTP 200, 121.00B
GET https://app-measurement.com/config/app/1%3A327451421140%3
Aandroid%3A9c547b5ed466b580?app_instance_id=
dbd01ced8ae224adb856f280e46b4aa6&platform=android&gmp_version
=17786
Headers
If-Modified-Since: Wed, 28 Oct 2020 16:56:05 GMT

```

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<<<< HTTP 304, 0.00B
POST https://app-measurement.com/a
POST body decoded as protobuf:
<...>
  14: "com.android.vending"
  16: "22.8.42-21 [0] [PR] 342741419"
  17: 34024
  18: 17786
  19: "8f29ff...f7804a3bd"
  20: 0
  21: "dbd01ced8ae224adb856f280e46b4aa6"
  22: 12815...134672363
  23: 2
  25: "1:327451421140:android:9c547b5ed466b580"
  26: 1606772654570
  28: 1
  30: "dHVKO5LRPfoS71S8ynLFp9" '// Firebase id of Google Play store
app
<...>
<<<< HTTP 204, 0.00B
GET https://www.google.com/complete/search?oe=utf-8&safe=images&gcc
=ie&ctzn=Europe%2FDublin&ctf=0&v=9.91.14.21.arm64&ntyp=1&ram_mb
=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbs-android-asbl-pb&
qsubts=1606779365403&devloc=0&padt=200&padb=684&gs_pcr=t&q=&cp
=0&psi=hYrtM9wdzRc.1606772640765.0&ech=1&dpr=2.625&gs_pcr=1&
xssi=t&getexp=1
Headers
  x-client-data: aqUDH4sIAA...5g1xgIAAA
<<<< HTTP 200, 5.54KB
GET https://play.googleapis.com/play/log/timestamp
<<<< HTTP 200, 13.00B
  Set-Cookie: NID=204=PhjsVUBhxs3MN8...iljwunZO4; expires=Tue, 01-
Jun-2021 23:44:32 GMT; path=/; domain=play.googleapis.com; HttpOnly
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: Android/com.android.vending/22.8.42-21 [0] [PR]
342741419
  Cookie: NID=204=JDGo-eArJlrAsjLL...0UQeL3vYXow;
POST body decoded as protobuf:
<device details>
POST https://www.googleapis.com/experimentsandconfigs/v1/
getExperimentsAndConfigs?r=13
Headers
  X-SERVER-TOKEN: CAESKQDyi0h8i9i...IhVaGWZmTu
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
  <device details>
  }
  5: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
POST https://www.google.com/m/voice-search/down?pair=54ce9385
-2849-4ebc-baa4-b1acbc8cbdb2
POST https://www.google.com/m/voice-search/up?pair=54ce9385-2849-4
ebc-baa4-b1acbc8cbdb2
Headers
  x-device-elapsed-time: 7713562810807
POST body:
b'\x00\x00\xc5H#\xf5\xc8\x05\xf...\x12\n\x0...\x01'
POST https://www.googleapis.com/experimentsandconfigs/v1/
getExperimentsAndConfigs?r=6
Headers
  X-SERVER-TOKEN: CAESKQDyi0h8i9i...IhVaGWZmTu
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
  <device details>
  }
  5: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: com.google.android.videos/4.4.43.8(Linux; U; Android 10;
en_US; Pixel 2 Build/QP1A.190711.019) gzip
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
  <device details>
  }
  5: "a92ab18bae24ceb8"
<device details>
GET https://www.gstatic.com/android/snet/snet.flags
<<<< HTTP 200, 809.00B
GET https://www.gstatic.com/android/snet/03152019-10002011.snet
<<<< HTTP 200, 283.70KB
GET https://connectivitycheck.gstatic.com/generate_204
<<<< HTTP 204, 0.00B
GET https://connectivitycheck.gstatic.com/generate_204
<<<< HTTP 204, 0.00B
GET https://connectivitycheck.gstatic.com/generate_204
<<<< HTTP 204, 0.00B
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: com.google.android.videos/4.4.43.8(Linux; U; Android 10;
en_US; Pixel 2 Build/QP1A.190711.019) gzip
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
  2: "a92ab18bae24ceb8"
<device details>
GET https://www.google.com/complete/search?oe=utf-8&safe=images&gcc
=ie&ctzn=Europe%2FDublin&ctf=0&v=9.91.14.21.arm64&ntyp=1&ram_mb
=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbs-android-asbl-pb&
qsubts=1606785784078&devloc=0&padt=200&padb=684&gs_pcr=t&q=&cp
=0&psi=hYrtM9wdzRc.1606772640765.0&ech=2&dpr=2.625&gs_pcr=1&
xssi=t&getexp=1
Headers
  x-client-data: apkDH4sIAAAA...AAA
<<<< HTTP 200, 10.27KB
GET https://connectivitycheck.gstatic.com/generate_204
<<<< HTTP 204, 0.00B
GET https://connectivitycheck.gstatic.com/generate_204
<<<< HTTP 204, 0.00B
GET https://connectivitycheck.gstatic.com/generate_204
<<<< HTTP 204, 0.00B
GET https://www.google.com/async/ddljson?async=_fmt:pb&client=ms-
android-google&hl=en-US&oe=utf-8&safe=images&gcc=ie&ctzn=Europe
%2FDublin&ctf=0&v=9.91.14.21.arm64&ntyp=1&ram_mb=3656
Headers
  x-launcher-type: com.google.android.apps.nexuslauncher
  x-client-opt-in-context: H4sIAAAAAAAAAAONi4WAVYB...263
n4X_jtMsCswIAAA
<<<< HTTP 200, 1.49KB
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: com.google.android.videos/4.4.43.8(Linux; U; Android 10;
en_US; Pixel 2 Build/QP1A.190711.019) gzip
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
  2: "a92ab18bae24ceb8"
<device details>
GET https://connectivitycheck.gstatic.com/generate_204
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: com.google.android.videos/4.4.43.8(Linux; U; Android 10;
en_US; Pixel 2 Build/QP1A.190711.019) gzip
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
  2: "a92ab18bae24ceb8"
<device details>
GET https://www.gstatic.com/icing/idd/nicknames-mapping/nicknames-
mapping-global_1481328343.txt
<<<< HTTP 200, 18.99KB
<and similar>
GET https://www.google.com/complete/search?oe=utf-8&safe=images&gcc
=ie&ctzn=Europe%2FDublin&ctf=0&v=9.91.14.21.arm64&ntyp=1&ram_mb
=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbs-android-asbl-pb&

```

qsubits=1606792554506&devloc=0&padt=200&padb=684&gs\_pcr=t&q=&cp=0&psi=hYrtM9wdzRc.1606772640765.0&ech=3&dpr=2.625&gs\_pcr=1&xssi=t&getexp=1

Headers

x-client-data: apkDH4sIAAAAAAAAAABX...swIAAA

<<< HTTP 200, 10.02KB

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=2

Headers

X-SERVER-TOKEN: CAESKQDyi0h8i9i...IHVaGWZmTu

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<device details>

5: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"

<...>

POST https://play.googleapis.com/play/log?format=raw&proto\_v2=true

Headers

User-Agent: com.google.android.videos/4.4.43.8(Linux; U; Android 10; en\_US; Pixel 2 Build/QP1A.190711.019) gzip

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

2: "a92ab18bae24ceb8"

<device details>

GET https://connectivitycheck.gstatic.com/generate\_204

<<< HTTP 204, 0.00

GET https://www.google.com/complete/search?oe=utf-8&safe=images&gcc=ie&ctzn=Europe%2FDublin&ctf=0&v=9.91.14.21.arm64&ntyp=1&ram\_mb=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbs-android-asbl-pb&qsubits=1606799324885&devloc=0&padt=200&padb=684&gs\_pcr=t&q=&cp=0&psi=hYrtM9wdzRc.1606772640765.0&ech=4&dpr=2.625&gs\_pcr=1&xssi=t&getexp=1

Headers

x-client-data: <...>apkDH4sIAAAAAAAAAABX...NukLswIAAA

<<< HTTP 200, 14.12KB

POST https://play.googleapis.com/play/log?format=raw&proto\_v2=true

Headers

User-Agent: com.google.android.videos/4.4.43.8(Linux; U; Android 10; en\_US; Pixel 2 Build/QP1A.190711.019) gzip

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

2: "a92ab18bae24ceb8"

<device details>

POST https://www.googleapis.com/usercontext/v1/controllerhub/getconfig?

key=AlzaSyAP-gf...mXHzIk

POST body decoded as protobuf:

<...>

8: "CAESKQDyi0...Q1Eo6DjyYpp"

<<< HTTP 200, 3.51KB

POST https://play.googleapis.com/play/log?format=raw&proto\_v2=true

Headers

User-Agent: com.google.android.videos/4.4.43.8(Linux; U; Android 10; en\_US; Pixel 2 Build/QP1A.190711.019) gzip

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

2: "a92ab18bae24ceb8"

<device details>

GET https://www.google.com/async/ddljson?async=\_fmt:pb&client=ms-android-google&hl=en-US&oe=utf-8&safe=images&gcc=ie&ctzn=Europe%2FDublin&ctf=0&v=9.91.14.21.arm64&ntyp=1&ram\_mb=3656

Headers

x-launcher-type: com.google.android.apps.nexuslauncher

x-client-opt-in-context: H4sIAAAAAA...DAJ3NFgBWAAAA

x-client-data: <...>apkDH4sIAAAAAAAAAABX...NukLswIAAA

<<< HTTP 200, 1.49KB

POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7BOnBjZPEk4rYwOiz-ITI

Headers

User-Agent: DroidGuard/17786048

POST body decoded as protobuf:

<device details>

1: "SERIAL"

2: "HT7AC1A04090"

<...>

<<< HTTP 200, 47.85KB

POST https://android.googleapis.com/checkin

Headers

Cookie: NID=204=CkQnussnT...NIo6wwGWg

POST body decoded as protobuf:

2: **3876027569814251330**

3: "1-d3b88569e765065f8f4e2e2857bf7879081c137b"

<device details>

7: **858797951683846810**

9: "e60d4b46d158"

10: "357537080984248"

11: ""

12: "Europe/Dublin"

13: 0x41559e6d59911873

14: 3

15: "bfMkwynjHzXGBCp2WT62otR8JkI="

16: "HT7AC1A04090"

<...>

24: "CgYde...VxEeiypDIYK0uw"

GET https://ota.googlezip.net/packages/ota-api/google\_walleye\_walleye/b4f5ad3168f13fc49103a99d497206c7dceb0491.zip

Headers

AUTHORIZATION: AJeBEBxKbpI78H...Z7Y5AwHm5SqA

DDVI: ABFEt1Xd-4yNjfkye...xR5QqkxFM

<<< HTTP 302, 0.00B

<and more similar>

POST https://www.googleapis.com/experimentsandconfigs/v1/

getExperimentsAndConfigs?r=1&c=128

Headers

User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210, sdk=29, device=walleye, hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel %202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a;armeabi-v7a;armeabi) (walleye QP1A.190711.019); gzip

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<device details>

7: "com.android.vending"

<<< HTTP 200, 90.46KB

GET https://android.clients.google.com/fdfe/selfUpdate?ex=1&susp=EAEYASACKgljb25maWcuZW4%3D&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3, versionCode=82284210, sdk=29, device=walleye, hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel %202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMz3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEZf8B

POST https://android.clients.google.com/fdfe/accountSync?nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3, versionCode=82284210, sdk=29, device=walleye, hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel %202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMz3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1Xd-4yNjfkye...

xR5QqkxFM

x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEZf8B

POST body decoded as protobuf:

1 {

1: "dHVKO5LRPfos71S8...35D7araqXOTpK9e" // Firebase id of Google Play store app

}

GET https://play.googleapis.com/play/log/timestamp

<<< HTTP 200, 13.00B

Set-Cookie: NID=204=YgJ06F6L4k1cCTXQhvt...sa8\_1qY\_M; expires=Wed, 02-Jun-2021 06:48:40 GMT; path=/; domain=play.googleapis.com; HttpOnly



POST https://play.googleapis.com/play/log?format=raw&proto\_v2=true  
 Headers

User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<device details>

<...>

<<<< HTTP 200, 11.00B

GET https://android.clients.google.com/fdfe/preloads?doc=android.

autoinstalls.config.google.nexus&build\_fingerprint=google%2Fwalleye%2Fwalleye%3A10%2FQP1A.190711.019%2F5790879%3Auser%2Frelease-keys

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1Xd-4yNjfyke...

xR5QqkxFM

x-dfe-data-service-subscriber: **H4sIAAA...AAAA**

x-dfe-phenotype: <...>**H4sIAAAAAAAAAAAB...AcoEZf8B**

GET https://play.googleapis.com/play/log/timestamp

<<<< HTTP 200, 13.00B

Set-Cookie: NID=204=cUgbeoPYOBSr3hy...n810vpDDniTTE; expires=Wed, 02-Jun-2021 06:48:41 GMT; path=/; domain=play.googleapis.com; HttpOnly

POST https://play.googleapis.com/play/log?format=raw&proto\_v2=true

Headers

User-Agent: Android/com.android.vending/22.8.42-21 [0] [PR]

342741419

Cookie: NID=204=CkQnussnT....Nl06wwGWg;

POST body decoded as protobuf:

<device details>

<...>

<<<< HTTP 200, 11.00B

POST https://android.clients.google.com/fdfe/autoUpdate?nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1Xd-4yNjfyke...

xR5QqkxFM

x-dfe-phenotype: <...>**H4sIAAAAAAAAAAAB...AcoEZf8B**

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

GET https://android.clients.google.com/fdfe/delivery?doc=android.

autoinstalls.config.google.nexus&ot=1&vc=1000&bvc=1&pf=1&pf=2&pf=3&pf=4&pf=5&pf=7&bf=0&fdcf=1&fdcf=2&ch=4wlkyazMs5mp2qPUI4MeBHKfWPU&dtok=AB-...q-6&ia=false&isid=lb1KsdUOqsuHs\_omC5dUVg&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1Xd-4yNjfyke...

xR5QqkxFM

x-dfe-phenotype: <...>**H4sIAAAAAAAAAAAB...AcoEZf8B**

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

GET https://pai.googlezip.net/download/by-token/download?token=

AOTCm0RBib...gSY&cpn=ii104qTjvDRlo\_Sd

Headers

user-agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (versionCode=82284210,sdk=29,model=Pixel 2,engine=Cronet;quic=1;http2=1;nel=0;hr=1)

x-pds-is-network-metered: 0

<<<< HTTP 200, 22.09KB

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

GET https://android.clients.google.com/fdfe/delivery?doc=com.google.android.gms&ot=1&vc=204516037&bvc=17786048&pf=1&pf=2&pf=3&pf=4&pf=5&pf=7&da=2&bf=0&fdcf=1&fdcf=2&ch=OJGKRT0HGZNU-LGa8F7GViztV4g&ia=false&isbg=1&isid=9qsZKdNWSOm8RBA4HGBpaA&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1Xd-4yNjfyke...

xR5QqkxFM

x-dfe-phenotype: <...>**H4sIAAAAAAAAAAAB...AcoEZf8B**

GET https://play.googleapis.com/download/by-token/download?token=

AOTCm0Q7fE6Lc...Fbpi72E&cpn=DcYcgvovYSgzIZLU&isid=9

qsZKdNWSOm8RBA4HGBpaA&isbg=1

Headers

user-agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (

versionCode=82284210,sdk=29,model=Pixel 2,engine=Cronet;quic=1;http2=1;nel=0;hr=1)

x-pds-is-network-metered: 0

<<<< HTTP 302, 0.00B

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

GET https://r4---sn-q0c7m76.gvt1.com/play-apps-download-default/download/by-id/AF3DWBd7LwDQll...pBTU?cpn=DcYcgvovYSgzIZLU&initcwndbps=13590&mh=6Z&mm=31&mn=sn-q0c7m76&ms=au&mt=1606805100&mv=m&mvi=4&pl=19&expire=1606978131&ip=37...B849F05C8F4C128FE704C356C979F85.295

F22D9593AFF8E28BBE886BC977721B9F0BF81&key=am3

Headers

user-agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (

versionCode=82284210,sdk=29,model=Pixel 2,engine=Cronet;quic=1;http2=1;nel=0;hr=1)

X-PDS-Is-Network-Metered: 0

<<<< HTTP 200, 32.94MB

GET https://play.googleapis.com/download/by-token/download?token=

AOTCm0QI2hhSddFsMHBVNiY4y38kuL6z5uuYTFpmvQVDx2-

myXDLjV2daXT8YudNBFwQOOU5hCnjf9D7sZA8mzgRaZlhZBKcIwD0TVSgu1BOZDwV

-O1qiJzgWJd4gfSYT-474325

vAvQyZ5vLxEr9WvZ5184CnWaabTn05BhomFBMYBfSfElSIX12yaF0ho4Ay5Wbni75J4I8

-9\_xg0t9jYvWQKKvsGdsfA\_L9PSSDOgPNnqTDrdeHGZSUSiJl0yoQ8Duc6F18SoxWvWV

-OYIFZduFedI8bBqeYAEWc&cpn=JzoZupHydAE8aW\_L&isid=9

qsZKdNWSOm8RBA4HGBpaA&isbg=1

Headers

user-agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (

versionCode=82284210,sdk=29,model=Pixel 2,engine=Cronet;quic=1;http2=1;nel=0;hr=1)

x-pds-is-network-metered: 0

<<<< HTTP 302, 0.00B

GET https://r2---sn-q0cedn7s.gvt1.com/play-apps-download-default/download/by-id/AF3DWBd7LwDQllXq...qdqk?cpn=JzoZupHydAE8aW\_L&

initcwndbps=12500&mh=j9&mm=31&mn=sn-q0cedn7s&ms=au&mt=1606805100&mv=m&mvi=2&pl=19&expire=1606978143&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q;initcwndbps,mm,mm,

mn,ms,mv,mvi,pl&signature=6B100E84F...0A642C452&key=am3

Headers

User-Agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (versionCode=82284210, sdk=29, model=Pixel 2, engine=Cronet; quic=1; http2=1; nel=0; hr=1)

X-PDS-Is-Network-Metered: 0

<<< HTTP 200, 114.59KB

GET https://connectivitycheck.gstatic.com/generate\_204

<<< HTTP 204, 0.00B

GET https://connectivitycheck.gstatic.com/generate\_204

<<< HTTP 204, 0.00B

GET https://android.clients.google.com/fdfe/delivery?doc=com.google.android.trichromelibrary&ot=1&vc=424019833&fdcf=1&fdcf=2&ia=false&isbg=1&isid=tO35Ng6nQVGTNVrmVGBGAQ&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3, versionCode=82284210, sdk=29, device=walleye, hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel%20, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a; armeabi-v7a; armeabi)

x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1Xd-4yNjfkYeM9...

JxR5QqkxFM

x-dfe-phenotype: <...>**H4sIAAAAAAAAAAB...AcoEzF8B**

<<< HTTP 200, 650.00B

GET https://play.googleapis.com/download/by-token/download?token=AOTCm0SgHRUqn944bd...AXnU&cpn=o7aScvZ6pd93sAA3

GET https://g.tenor.com/v1/categories?key=AB2ELZTOKHY&media\_filter=minimal&locale=en\_US&safesearch=mild

POST https://cloudconfig.googleapis.com/config

POST body:

b'\x1f\x8b\x08\x00...x00\x00'

<<< HTTP 200, 154.00B

GET https://www.gstatic.com/android/keyboard/dictionarypack/Wheelharp-normal/rm7hiq7n5yf--laimain\_en\_us\_d3\_20180802.dict

Headers

user-agent: superpacks

<<< HTTP 200, 4.78MB

GET https://r2---sn-q0cedn7s.gvt1.com/play-apps-download-default/download/by-id/AF3DWBfkGpzLDiMD...VE3Q?cpn=o7aScv...sAA3&ctier=L&initcwndbps=12500&mh=j6&mm=31&mn=sn-q0cedn7s&ms=au&mt=1606805100&mv=m&mvi=2&pl=19&expire=1606978159&ip=37.228.208.145&ipbits=0&sparams=expire,ip,q,initcwndbps,mh,mm,mn,ms,mv,mvi,pl,ctier&signature=68B07384...530DFCF&key=am3

Headers

User-Agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (versionCode=82284210, sdk=29, model=Pixel 2, engine=Cronet; quic=1; http2=1; nel=0; hr=1)

X-PDS-Is-Network-Metered: 0

<<< HTTP 200, 59.27MB

GET https://www.gstatic.com/android/keyboard/dictionarypack/Wheelharp-normal/metadata\_for\_launch\_noac.json

Headers

user-agent: superpacks

<<< HTTP 200, 262.23KB

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=7&c=1

Headers

X-SERVER-TOKEN: **CAESKQDyi0h8i9i...IHVaGWZmTu**

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<...>

33: 18446744073709551615

<...>

7: "com.google.android.platform.window\_manager\_native\_boot"

<<< HTTP 200, 642.82KB

GET https://www.gstatic.com/android/keyboard/modelpack/emoji/20190401132437/superpacks\_manifest.zip

Headers

user-agent: superpacks

<<< HTTP 200, 5.13KB

GET https://www.gstatic.com/android/keyboard/ondevice\_recognizer/superpacks-manifest-20181012.json

Headers

user-agent: superpacks

<<< HTTP 200, 478.00B

GET https://www.gstatic.com/android/keyboard/emoji/20190401132437/en.zip

Headers

user-agent: superpacks

<<< HTTP 200, 59.62KB

GET https://connectivitycheck.gstatic.com/generate\_204

<<< HTTP 204, 0.00B

GET https://pagead2.googlesyndication.com/pagead/gen\_204?id=gmob-apps&action=gmscore\_upgrade&device=Google%20Pixel%202&locale=en\_US&js=204516037.204516000&os=10&api=29&lta=false&eids=318475418&appid=com.google.android.gms&previous\_gmscore\_version=17786048

<<< HTTP 204, 0.00B

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675

app: com.google.android.gms

gcm\_ver: 204516037

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=496232013492&X-X-subscription=496232013492&sender=496232013492&X-X-subtype=496232013492&X-app\_ver=204516037&X-osv=29&X-cliv=iid=204516000&X-gmsv=204516037&X-appid=embdod44p88&X-scope=GCM&X-subscription=496232013492&X-app\_ver\_name=20.45.16+%28120400-%7B%7Bcl%7D%7D%29&app=com.google.android.gms&device=**3876027569814251330**&app\_ver=204516037&info=s-x**TeoyqJEUQQKri541rkWVljs2xYRc**&gcm\_ver=204516037&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788&target\_ver=30

<<< HTTP 200, 158.00B

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675

app: com.google.android.gms

gcm\_ver: 204516037

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=745476177629&X-X-subscription=745476177629&sender=745476177629&X-X-subtype=745476177629&X-app\_ver=204516037&X-osv=29&X-cliv=iid=204516000&X-gmsv=204516037&X-appid=embdod44p88&X-scope=DIRECTBOOT&X-subscription=745476177629&X-app\_ver\_name=20.45.16+%28120400-%7B%7Bcl%7D%7D%29&app=com.google.android.gms&device=**3876027569814251330**&app\_ver=204516037&info=s-x**TeoyqJEUQQKri541rkWVljs2xYRc**&gcm\_ver=204516037&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788&target\_ver=30

<<< HTTP 200, 158.00B

POST https://www.googleapis.com/androidantibase/v1/x/create?alt=PROTO

&key=AlzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIz-ITI

Headers

User-Agent: DroidGuard/204516037

POST body decoded as protobuf:

<device details>

1: "SERIAL"

2: "**HT7AC1A04090**"

<device details>

<<< HTTP 200, 47.89KB

POST https://www.googleapis.com/androidantibase/v1/x/create?alt=PROTO

&key=AlzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIz-ITI

Headers

User-Agent: DroidGuard/204516037

POST body decoded as protobuf:

<device details>

1: "SERIAL"

2: "**HT7AC1A04090**"

<device details>

<<< HTTP 200, 47.95KB

POST https://android.googleapis.com/checkin

Headers

Cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4

POST body decoded as protobuf:

2: **3876027569814251330**

<...>

9: "**e60d4b46d158**"

10: "**357537080984248**"

11: ""

12: "Europe/Dublin"

13: **41559e6d59911873**

14: 3

15: "**bfMkwynjHzXGBPc2WT62otR8JkI**"

16: "HT7AC1A04090"

<software details>

24: "CgYVkaOztS4S2mUKBoIj9...QqkxFM"

<...>

<<< HTTP 200, 164.15KB

POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO &key=AlzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIZ-ITI

Headers

User-Agent: DroidGuard/204516037

POST body decoded as protobuf:

<...>

<device details>2 {

1: "SERIAL"

2: "HT7AC1A04090"

<device details>

<...>

<<< HTTP 200, 52.89KB

POST https://ssl.google-analytics.com/batch

Headers

User-Agent: GoogleAnalytics/204.5.16 (Linux; U; Android 10; en-us;

Pixel 2 Build/QP1A.190711.019)

a=1686710085&utmc=DigitalWidget&aip=1&an=Clock&tid=UA-61414137-1&utt=4&t=timing&\_s=0&av=6.1.1+%28238466778%29&utv=Widget+Data+Fetch&v=1&\_v=ma11.0.11&ul=en-us&aid=com.google.android.deskclock&cid=da1a982f-9cd0-4216-9810-c3e5ca15227c&sr=1080x1794&ht=1606771973819&qt=33400121&\_gmsv=204.5.16

<<< HTTP 200, 35.00B

POST https://phonedeviceverification-pa.googleapis.com/google.internal.communications.phonedeviceverification.v1.PhoneDeviceVerification/GetConsent

Headers

x-goog-api-key: AlzaSyAP-gf...mXHzIk

x-android-package: com.google.android.gms

x-goog-spatula: CjYKfMnVbS5nb29n...Fwu6/s+CCz+wBKgA=

POST body:

b'\x00\x00\x00F6\n\x9b\x01\n\x98\x01embdod44p88...x06Google\x1a\$09e08ae7-1ef0-4b54-a630-831f308ee056'\x02\x08\x01@\x01'

POST body decoded as protobuf:

Failed

<<< HTTP 200, 131.00B

POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO &key=AlzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIZ-ITI

Headers

User-Agent: DroidGuard/204516037

POST body decoded as protobuf:

<...>

<device details>2 {

1: "SERIAL"

2: "HT7AC1A04090"

<device details>

<...>

<<< HTTP 200, 50.92KB

GET https://android.clients.google.com/fdfe/delivery?doc=com.google.android.webview&ot=1&vc=424019833&bvc=373018658&pf=1&pf=2&pf=3&pf=4&pf=5&pf=7&da=2&bf=0&fdcf=1&fdcf=2&ch=Hzh8sl4Aae\_KSQRKMBg4J033UU&ia=false&isbg=1&isid=tO35Ng6nQVGTNVrmVGBGAQ&nocache\_qos=lt

Headers

User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210, sdk=29, device=walleye, hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel%202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMz3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1U0t\_Q1L75..

OmnPUM1mWNI9mvmYlHimY

x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEzF8B

<<< HTTP 200, 2.49KB

POST https://www.google.com/m/voice-search/down?pair=15d47f68-b234-4cef-b70e-0a2c44362240

<<< HTTP 500, 1.69KB

POST https://www.google.com/m/voice-search/up?pair=15d47f68-b234-4cef-b70e-0a2c44362240

POST body:

b'\x00\x00\x005H#\xf5\x08\x05...1\x18\x01'

<<< HTTP 200, 3.91KB

GET https://play.googleapis.com/download/by-token/download?token=AOTcm0Tv3-n...e23crMY&cpn=WdkAeJ2aYLn...VGBGAQ&isbg=1

Headers

User-Agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (versionCode=82284210, sdk=29, model=Pixel 2, engine=Cronet, quic=1; http2=1; nel=0; hr=1)

x-pds-is-network-metered: 0

<<< HTTP 302, 0.00B

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=7&c=1

Headers

X-SERVER-TOKEN: CAESOQDyi0h8n...WSSWHEg

POST body decoded as protobuf:

<...>

1: 3876027569814251330

<...>

5: "204=nzTYtxJCBYaNoo...XvuWW4"

<...>

<<< HTTP 200, 456.11KB

GET https://www.gstatic.com/images/icons/material/apps/weather/2x/mostly\_cloudy\_night\_light\_color\_96dp.png

<<< HTTP 200, 2.33KB

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675

app: com.google.android.googlequicksearchbox

gcm\_ver: 204516037

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=1086610230652&sender=1086610230652&X-app\_ver=300951992&X-osv=29&X-cliv=fiid-UNKNOWN&X-gmsv=204516037&X-appid=c12fbNIO-js&X-scope=\*&X-gmp\_app\_id=1%3A1086610230652%3AAndroid%3A131e4c3db28fca84&X-Firebase-Client=fire-iiid%2F18.0.1+fire-core%2F16.1.0\_p+fire-analytics%2F16.5.1+fire-android%2F&X-app\_ver\_name=9.91.14.21.arm64&app=com.google.android.googlequicksearchbox&device=3876027569814251330&app\_ip=300951992&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788&target\_ver=28

<<< HTTP 200, 158.00B

GET https://r5----sn-q0c7rn76.gvt1.com/play-apps-download-default/download/by-id/AF3DWBd7LwD...K0?cpn=WdkAeJ2aYLn\_yLfm&initwndbps=13590&mh=l0&mm=31&mn=sn-q0c7rn76&ms=au&mt=1606805100&mv=m&mvi=5&pl=19&expire=1606978178&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q;initwndbps,mh,mm,mn,ms,mv,mvi,pl&signature=A1C022699...C6EB7&key=am3

Headers

User-Agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (versionCode=82284210, sdk=29, model=Pixel 2, engine=Cronet, quic=1; http2=1; nel=0; hr=1)

X-PDS-Is-Network-Metered: 0

<<< HTTP 200, 25.53MB

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675

app: com.google.android.gms

gcm\_ver: 204516037

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=466216207879&X-X-subscription=466216207879&sender=466216207879&X-X-subtype=466216207879&X-app\_ver=204516037&X-osv=29&X-cliv=iiid-204516000&X-gmsv=204516037&X-appid=embdod44p88&X-scope=GCM&X-subscription=466216207879&X-app\_ver\_name=20.45.16+%28120400-%7B%7Bc1%7D%7D%29&app=com.google.android.gms&device=3876027569814251330&app\_ip=204516037&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788&target\_ver=30

<<< HTTP 200, 158.00B

POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO &key=AlzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIZ-ITI

Headers

User-Agent: DroidGuard/204516037

POST body decoded as protobuf:

<device details>2 {

1: "SERIAL"

2: "HT7AC1A04090"



<device details>

<<<< HTTP 200, 42.88KB

POST https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIZ-ITI

Headers

User-Agent: DroidGuard/204516037

POST body decoded as protobuf:

<device details>

- 1: "SERIAL"
- 2: "HT7AC1A04090"

<device details>

<...>

<<<< HTTP 200, 5.38KB

POST https://www.googleapis.com/androidcheck/v1/attestations/adAttest?key=AlzaSyDaepk5bynjTA7ZhzF\_0fzIHIXAKZl3dA

Headers

User-Agent: GmsCore/204516037 (walleye QP1A.190711.019); gzip

POST body decoded as protobuf:

- 1 {
- 1: "8f29ff...f7804a3bd"

<...>

2: "CgYA3bi9AtUSpWQKBqva...gA"

<<<< HTTP 200, 117.00B

POST https://www.googleapis.com/androidantiabuse/v1/x/create\_lite?alt=PROTO&key=AlzaSyBofcZsgLSS7BOnBjZPEkk4rYwzOIZ-ITI

Headers

User-Agent: GmsCore/204516037 (walleye QP1A.190711.019); gzip

POST body decoded as protobuf:

<device details>

<<<< HTTP 200, 340.69KB

POST https://instantmessaging-pa.googleapis.com/google.internal.communications.instantmessaging.v1.IM/RegisterSilent

Headers

te: trailers

x-goog-api-key: AlzaSyAP-gf...\_mXHhZIk  
 x-android-package: com.google.android.gms  
 x-android-cert: 38918A453D07199354F8B19AF05EC6562CED5788  
 sec-x-google-grpc: 1  
 origin: android-app://com.google.android.gms  
 x-goog-spatula: CjYKfMnVbSSnb29n...Fwu6/s+CCz+wBKgA=  
 grpc-accept-encoding: gzip  
 grpc-timeout: 99558219u

POST body:

b'\x00\x00\x00... \x8a\x02 \x16com.google.android.gms'

<<<< HTTP 200, 0.00B

GET https://play.googleapis.com/download/by-token/download?token=AOTCm0QsY...NCU&cpn=9-ngE--nd0KA1CW6&isid=tO35Ng6nQVGTNVrmVGbGAQ&isbg=1

Headers

user-agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (versionCode=82284210, sdk=29, model=Pixel 2, engine=Cronet; quic=1; http2=1; nel=0; hr=1)

x-pds-is-network-metered: 0

<<<< HTTP 302, 0.00B

GET https://r3---sn-q0c7m76.gvt1.com/play-apps-download-default/download/by-id/AF3DWBd7L...9Q?cpn=9-ngE--nd0KA1CW6&initwndbps=13930&mh=LZ&mm=31&mn=sn-q0c7rn76&ms=au&mt=1606805329&mv=m&mv=3&pl=19&expire=1606978188&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q;initwndbps,mh,mm,mn,ms,mv,mvi,pl&signature=6E453C47DB2D843389A85F0E74EE8AB...C391&key=am3

Headers

User-Agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (versionCode=82284210, sdk=29, model=Pixel 2, engine=Cronet; quic=1; http2=1; nel=0; hr=1)

X-PDS-Is-Network-Metered: 0

<<<< HTTP 200, 21.00KB

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

GET https://app-measurement.com/config/app/1%3A1086610230652%3Aandroid%3A131e4c3db2fca84?app\_instance\_id=6bd6aa6f4194f9c71eb99734486e0080&platform=android&gmp\_version=204516

<<<< HTTP 200, 2.32KB

GET https://android.clients.google.com/fdfe/delivery?doc=com.android.chrome&ot=1&vc=424019833&bvc=373018658&pf=1&pf=2&pf=3&pf=4&pf=5&pf=7&da=2&bf=0&fdcf=1&fdcf=2&ch=OJGKRT0HGZNU-LGa8F7GVizV4g&ia=false&isbg=1&isid=\_BCLkT\_8S16AaKG0siPiXA&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3, versionCode=82284210, sdk=29, device=walleye, hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel %202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a; armeabi-v7a; armeabi)

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1U0t\_Q1tL75..

OmnPuM1mWNi9mvmYlHimY

x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEZf8B

<<<< HTTP 200, 6.54KB

POST https://android.clients.google.com/fdfe/moduleDelivery

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3, versionCode=82284210, sdk=29, device=walleye, hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel %202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a; armeabi-v7a; armeabi)

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1U0t\_Q1tL75..

OmnPuM1mWNi9mvmYlHimY

x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEZf8B

POST body decoded as protobuf:

<...>

POST https://app-measurement.com/a

POST body decoded as protobuf:

<...>

13: "manual\_install"

14: "com.google.android.googlequicksearchbox"

16: "9.91.14.21.arm64"

17: 16250

18: 204516

19: "8f29ff...f7804a3bd"

20: 0

21: "6bd6aa6f4194f9c71eb99734486e0080"

22: 12815...134672363

<...>

<< HTTP 204, 0.00B

GET https://play.googleapis.com/download/by-token/download?token=AOTCm0RyC97nHU5...J34&cpn=zyDQmkbEGR5cmXa&isid=\_BCLkT\_8S16AaKG0siPiXA&isbg=1

<and similar>

GET https://android.clients.google.com/fdfe/delivery?doc=com.google.android.apps.wellbeing&ot=1&vc=208987&bvc=56719&pf=1&pf=2&pf=3&pf=4&pf=5&pf=7&bf=0&fdcf=1&fdcf=2&ch=Tr3QI4Dx-gtmQUkfcvNWJdunbp8&ia=false&isbg=1&isid=99sFQc5kRUGjAjKOlje-AA&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3, versionCode=82284210, sdk=29, device=walleye, hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel %202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a; armeabi-v7a; armeabi)

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1U0t\_Q1tL75..

OmnPuM1mWNi9mvmYlHimY

x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEZf8B

<<<< HTTP 200, 1.27KB

GET https://play.googleapis.com/download/by-token/download?token=AOTCm...UG1J-NAu8l&cpn=w9zUvllmZkbf1SBS&isid=99sFQc5kRUGjAjKOlje-AA&isbg=1

<and similar>

POST https://play.googleapis.com/play/log?format=raw&proto\_v2=true

POST body decoded as protobuf:

<...>



```

1: 3876027569814251330
<device details>
<....>
GET https://android.clients.google.com/fdfe/delivery?doc=com.google.ar.core
&ot=1&vc=202940503&bvc=0&pf=1&pf=2&pf=3&pf=4&pf=5&pf=7&da
=3&bf=0&fdcf=1&fdcf=2&ch=n6UNALD0vapdjzcb6pgvtZi35pc&ia=false&
isbg=1&isid=Q2uecjcATheASlr7hz_INQ&nocache_qos=lt
Headers
user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buidId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
x-dfe-device-id: 35ca6a89e6662742
x-dfe-device-config-token: CisaKQoTMzg3NjAyN...
A2NzcyNzkzNDA2NzM1
x-dfe-device-checkin-consistency-token: ABFEt1U0t_Q1tL75..
OmnPuM1mWNi9mvmYlHimY
x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEZf8B
<<< HTTP 200, 4.15KB
GET https://play.googleapis.com/download/by-token/download?token=
AOTCm0R02MB6QuCzmdN...YAGpQ&cpn=SkB3o-h7cOYo7D8o&isid=
Q2uecjcATheASlr7hz_INQ&isbg=1
Headers
user-agent: Android-Finsky/22.8.42-21 [0] [PR] 342741419 (
versionCode=82284210,sdk=29,model=Pixel 2,engine=Cronet;quic=1;http2
=1;nel=0;hr=1)
x-pds-is-network-metered: 0
<<< HTTP 302, 0.00B
<and similar>
GET https://android.clients.google.com/fdfe/delivery?doc=com.google.
android.apps.cloudprint&ot=1&vc=147&bvc=142&pf=1&pf=2&pf=3&pf
=4&pf=5&pf=7&bf=0&fdcf=1&fdcf=2&ch=
JLskwF5H4K76aKWKdmF52bYtPgA&ia=false&isbg=1&isid=
RDk5Oj0NTxKjvnRB105Txg&nocache_qos=lt
Headers
user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,
hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel
%202,buidId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)
x-dfe-device-id: 35ca6a89e6662742
x-dfe-device-config-token: CisaKQoTMzg3N...NDA2NzM1
x-dfe-device-checkin-consistency-token: ABFEt1U0t_Q1tL75z8A..9
mvmYlHimY
x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEZf8B
GET https://play.googleapis.com/download/by-token/download?token=
AOTCm0R_vshhoEwORqWQc...Fi4Cjm_A&cpn=0UzcD99gUvArs0yD&
isid=RDk5Oj0NTxKjvnRB105Txg&isbg=1
<and similar>
POST https://play.googleapis.com/log/batch
Headers
x-server-token: CAESKQDyi0h8...HWUVYYKGowA
user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4
POST body decoded as protobuf:
<....>
1: 3876027569814251330
<device details>
5: "\252\001\...\022*12.0.199517396-carrierservices_V12W_1_RC27
\0326(0...t\030UNKNOWN_SIM_CALL_MANAGER@\002x
\...\020\000"
6: "CARRIER_SERVICES"
<....>
1: 3876027569814251330
<device details>
5: "c\010\244\324\276\332\341.2H\nF\")\n\035\n\033com.google.
android.contacts\n\004\n\002OK...\020\000"
6: "STREAMZ_ANDROID_GROWTH"
<....>
1: 3876027569814251330
<device details>
5: "\213\001\010\320\375\262\332\341.2p*[ncom.google.android.
apps.messaging\022\3.3.039 (Xylophone_RC18_xxhdp.arm64-v8a.phone)
\030...\020\000"
6: "ANDROID_MESSAGING_PRIMES"
<....>
1: 3876027569814251330
<device details>
5: ">\010\235\373\240\332...\020\000"
6: "STREAMZ_GCM"
<....>
1: 3876027569814251330
<device details>
5: "F\010\214\247\235\332\341.2$\362\002\n\031
PeriodicContextualMetrics\020...\020\000"
6: "LATIN_IME"
<....>
1: 3876027569814251330
<device details>
5: "d\010\231\315\27...\020\000"
6: "ANDROID_CONTACTS_COUNTERS"
<....>
1: 3876027569814251330
<device details>
5: "\010\376\306\277\332\341.2A*,\n\031com.google.android.
videos\022\0104.4.43.8...\020\000"
6: "PLAY_MOVIES_ANDROID_PRIMES"
<....>
1: 3876027569814251330
<device details>
}
4: 1606805451828
5: "x\010\331\372\262\332\341.2R\010\001\022com.google.android.
apps.messaging*\n%\n\027Noto Color Emoji Compat\02...\020\000"
6: "DL_FONTS"
<....>
1: 3876027569814251330
<device details>
}
4: 1606805451828
5: "I\010\215\37...\020\000"
6: "BUGLE_COUNTERS"
<....>
1: 3876027569814251330
<device details>
}
4: 1606805451828
5: "\213\001\010\323\201\272\332\341.2Y*D\n\035com.google.
android.apps.turbo\022...\020\000"
6: "TURBO_ANDROID_PRIMES"
<....>
1: 3876027569814251330
<device details>
}
4: 1606805451828
5: "I\010\275\324\231...\020\000"
6: "PSEUDONYMOUS_ID_COUNTERS"
<....>
1: 3876027569814251330
<device details>
}
4: 1606805451828
5: "w\010\233\200\273\332\341.2K*6\n\033com.google.android.
contacts\022\0203.5.51.249995595\030...\020\000"
6: "ANDROID_CONTACTS_PRIMES"
<....>
1: 3876027569814251330
<device details>
}
4: 1606805451828
5: "Q\010\255\374\262\332...\020\000"

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6: "ANDROID_MESSAGING"
<...>
  1: 3876027569814251330
<device details> 33: 18446744073709551615
5: ""341\001\010\374...\001\020\000"
6: "CLEARCUT_FUNNEL"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>

<<< HTTP 200, 163.00B
POST https://play.googleapis.com/log/batch
Headers
  x-server-token: CAESKQDyi0h8...HWUVYYKGowA
  user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
  cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: ""\010\210\332\300...1\020\000"
6: "CARRIER_SERVICES"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: ""216\003\010\...023com.android.vending\022\0...020location-
history\022\002\010\00...\021location-accuracy\022\002...020\000"
6: "STREAMZ_HERREVED"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: ""\216\003\010\317\374\300\350\341.2\254\003\n\251\003\n
\003wra\032I\n\003wrb\022\001c\032=:com.google.android.gms
....\020\000"
6: "DROIDGUARD"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "F\010\334\206...\020\000"
6: "PROXIMITY_AUTH_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "S\010\204\354\301...\020\000"
6: "TAP_AND_PAY_APP"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "c\010\220\343\300\350...\020\000"
6: "GMS_CORE_PEOPLE"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "c\010\353\265\304\350\341.2H\nF")\n\035\n\033com.google.
android.contacts\n\004\n\002OK\022\002\0...020\000"
6: "STREAMZ_ANDROID_GROWTH"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "<\010\325\334...\020\000"
6: "EASY_UNLOCK_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "<\010\321\237\302\350\341.2""002ie2\033\n
\027\010\001\022\023com.android.vending\020...\020\000"
6: "ANDROID_VERIFY_APPS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: ""250\002\0...000R\0209.91.14.21.arm64x...\001\020\000"
6: "ANDROID_GSA"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "x\010\300\305\3...\003\022'\n^https://www.gstatic.com/android/
keyboard/onddevice_recognizer/superpacks-manifest-20181012.json
\032...\020\000"
6: "LATIN_IME"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "\340\002\010\352\207...\020\000"
6: "ANDROID_CHECKIN_METRICS_LOG"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "d\010\346\255\301...\020\000"
6: "ANDROID_CONTACTS_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "B\010\313...1\020\000"
6: "PLATFORM_STATS_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615
<...>
5: "=\010\240...\020\000"
6: "MATCHSTICK"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
  1: 3876027569814251330
<device details>
  33: 18446744073709551615

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33: 18446744073709551615
<...>
5: "\307\001\010...\020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
}
12: 1606790400
}
4: 1606805454367
5: "-\010\350\303\300...\020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "C\010\256\210\301\350...\020\000"
6: "ANDROID_BACKUP"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\177\010\274\306\300\350\341.2d*O\n(com.google.android.
settings.intelligence\022...\020\000"
6: "SETTINGS_INTELLIGENCE_ANDROID_PRIMES"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "I\010\26...\020\000"
6: "BUGLE_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "I\010\316\...1\020\000"
6: "BUGLE_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "I\010\350\313\301\350...1\020\000"
6: "MATCHSTICK_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "X\010\245\346\300\350\341.20" "$09e08ae7-1ef0-4b54-a630-831
f308ee056(\0012\006\010...\020\000"
6: "CONSTELLATION"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "I\010\352\303\300\35...\020\000"
6: "PSEUDONYMOUS_ID_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\010\336\271\...\004\010\001\020\000"
6: "GAL_PROVIDER"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "q\010\264\312\301\350\341.2:\n8\020\001:2Request of optional
module download of ocr failed.@\001X\001x\...20\000"
6: "VISION"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
6: "VISION"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\242\004\010\321\240\303\350\341.2\356\003\022<...\com.
google.android.apps.wellbeing*\r1.0.3404671552\0020\000\032\350\001\
n\014\010\000\025\000\000\000\000\035\000\000\000\000\022\014
BG Thread #3\030\204\007" "Ncom.google.android.apps.wellbeing.
appconfig.service.impl.UsageLimitServiceImpl*4
lambda$updateLimitsAfterConfigurationChangeLocked$192>Migrating
limits: delete %d obsolete limits, add %d new limitsh\254\002:\276\001\
n\252\001Broadcast to com.google.android.apps.wellbeing.appconfig.
service.impl.UsageLimitServicePackageReplacedBroadcastReceiver_Receiver
android.intent.action.MY_PACKAGE_REPLACED\n\017handleBroadcast
'\001h\001X\37...com.google.android.apps.wellbeing*\r1
.0.3404671552\0020\000\032\300\001\n
\014\010\000\025\000\000\000\000\035\000\000\000\000\022\014
BG Thread #3\030\204\007" "Acom.google.android.apps.wellbeing.autodnd
.impl.AutoDndManagerImpl*\032lambda$setAutoDndSupport$324Auto
DND support connectionless gcore call timed outB\007\n\005\n\003pelh
\262\002:\252\001\n\226\001Broadcast to com.google.android.apps.
wellbeing.autodnd.ui.
AutoDndUiPackageReplacedBroadcastReceiver_Receiver android.intent.
action.MY_PACKAGE_REPLACED\n\017handleBroadcast'\001h\00...
com.google.android.apps.wellbeing*\r1
.0.3404671552\0020\000\032\261\001\n
\014\010\000\025\000\000\000\000\035\000\000\000\000\022\014
BG Thread #3\030\204\007" "Ccom.google.android.apps.wellbeing.autodnd
.impl.AutoDndSupportHelper*\022checkLastTimestamp25Last successful
support value was over 1 day old (%s)hW:\252\001\n\226\001Broadcast
to com.google.android.apps.wellbeing.autodnd.ui.
AutoDndUiPackageReplacedBroadcastReceiver_Receiver android.intent.
action.MY_PACKAGE_REPLACED\n\017handleBroadcast'\001h\001X
\231\310\267\...com.google.android.apps.wellbeing*\r1
.0.3404671552\0020\000\032\272\005\n
\014\010\000\025\000\000\000\000\000\035\000\000\000\000\022\016
Lite Thread #1\030\204\007" "Pcom.google.android.apps.wellbeing.
bedtime.bridge.impl.ClockBedtimeProviderBridge*\022
getBedtimeSchedule2\Error calling get_bedtime_info providerB\205\004\
n\202\004\n" "java.lang.IllegalArgumentException#\037android.content.
ContentResolver2\004call:\024ContentResolver.java@\367\017$##*\037
android.content.ContentResolver2\004call:\024ContentResolver.java@
\346\017$##*\003ekt2\001c@{\$##*\003ekn2\001a:\002PG@\003$##*\003
ekn2\001c@\n$##*\003ept2\001a:\002PG@\003$##*\003rve2\002aZ:\002
PG@\002$##*\003oky2\002aZ:\002PG@\002$##*\003sat2\003run:\002
PG@t$##*\003net2\003run:\002PG@\001$##*\java.util.concurrent.
ThreadPoolExecutor2\trunWorker:\027ThreadPoolExecutor.java@\217\t$
##*\java.util.concurrent.ThreadPoolExecutor$Worker2\003run:\027
ThreadPoolExecutor.java@\201\005$##*\003ncm2\003run@&$##*\020java.
lang.Thread2\003run:\013Thread.java@\227\007Sh$:\242\001\n
\216\001Broadcast to com.google.android.apps.wellbeing.bedtime.manager.
SyncBedtimeBroadcastReceiver_Receiver android.intent.action.
MY_PACKAGE_REPLACED\n\017handleBroadcast'\001h\001X\22...
com.google.android.apps.wellbeing*\r1
.0.3404671552\0020\000\032\245\001\n
\014\010\000\025\000\000\000\000\035\000\000\000\000\022\016
Lite Thread #1\030\204\007" "@com.google.android.apps.wellbeing.
bedtime.manager.BedtimeManager*\034syncBedtimeScheduleFromClock2
Couldn't read bedtime from Clockhi:\242\001\n\216\001Broadcast to

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com.google.android.apps.wellbeing.bedtime.manager.
SyncBroadcastReceiver android.intent.action.
MY_PACKAGE_REPLACED\n\017handleBroadcast\001h\001X...com.
google.android.apps.wellbeing*\r1.0.3404671552\0020\000\032\270\001\
n\014\010\000\025\000\000\000\000\035\000\000\000\022\016
Lite Thread #2\030\204\007">com.google.android.apps.wellbeing.
winddown.impl.WindDownLogger**
logWindDownSessionEndedToClearcutAndDevice2&Wind down schedule
missing start time.h\201\001:254\001\n\230\001Broadcast to com.
google.android.apps.wellbeing.winddown.impl.
WindDownPackageReplacedBroadcastReceiver_Receiver android.intent.
action.MY_PACKAGE_REPLACED\n\017handleBroadcast\001h\001X
\34...020\000"
6: "CLIENT_LOGGING_PROD"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "?\010\274\362\300...\020\000"
6 {
9: 0x45524f43475f4150
}
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details> 33: 18446744073709551615
<...>
5: ">\010\342...\020\000"
6 {
9: 0x45524f43475f4150
}
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\351\016\010\362\364\300\350\341.\022\007install2\301\001\n
\276\001\n\03320.45.16 (120400-344294571)
\020\253\211\226\244\001\030\021 \004(\0002d\n\0052.1.0\022\023
The Android Project\032\006Dalvik"\0030.9*\023The Android
Project2$Dalvik Virtual Machine Specification8\000@\000H...\020\000"
6: "GMS_CORE"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "C\010\346\272\3...\020\000"
6: "MAGICTETHER_COUNTERS"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
}
4: 1606805454367
5: "w\010\220\351\300\350\341.2K*6\n\033com.google.android.
contacts\022\0203.5.51.249995595\030\001 \267...1\020\000"
6: "ANDROID_CONTACTS_PRIMES"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\233\001\010...1\020\000"
6: "ANDROID_AUTH"
7: "204=nzTYtxJCBYaNoo...XvuWW4"
<...>
<<<< HTTP 200, 277.00B
POST https://play.googleapis.com/log/batch
Headers
x-server-token: CAESKQDyi0h8...HWUUYKGoWA

```

```

user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details>
5: "\252\00...0\016\022*12.0.199517396-
carrierservices_V12W_1_RC27\0326\010\350\313\340\017\022\3.3.039
(Xylophone_RC18_xhdpi.arm64-v8a.phone)\...\002\n\00*...\020\000"
6: "CARRIER_SERVICES"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "7\010\354\264\352\343\341.\022\034com.google.android.apps.
mapsx\000\21...020\000"
6: "APP_USAGE_1P"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
<...>
6: "GMAIL_ANDROID_PRIMES"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
<...>
"A\010\236...\020\000"
6: "BRELLA"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "i\010\307\303\327\346\341.2C\n,\n(com.google.android.settings.
intelligence\020\001...\020\000"
6: "BRELLA"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "\010\306\341\274\344\341.2P*;\n\033com.google.android.apps.
gcs\022\0253.5 prod (4003 sdk29)\030\001 \...1\020\000"
6: "WIFI_ASSISTANT_PRIMES"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
<...>
5: "c\010\363\2....1\020\000"
6: "GMS_CORE_PEOPLE"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "c\010\345\246\237\347\341.2H\nF")\n\035\n\033com.google.
android.contacts\n\004\n\0...020\000"
6: "STREAMZ_ANDROID_GROWTH"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "\213\001\010\277\317\223\347\341.2p*[\ncom.google.android.
apps.messaging\022\3.3.039 (Xylophone_RC18_xhdpi.arm64-v8a.phone)
\030...\020\000"
6: "ANDROID_MESSAGING_PRIMES"
7: "204=CkQnussnT....Ni06wwGWg"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\223\001\010...\020\000"
6: "GOOGLE_KEYBOARD_COUNTERS"
7: "204=CkQnussnT....Ni06wwGWg"
<...>

```



```

1: 3876027569814251330
<device details>
5: ">\010\261\333...\020\000"
6: "STREAMZ_GCM"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "<\010\370\235\276\350\341.2"'\002ie2\033\n
\027\010\001\022\023com.android.vending\020\0....\020\000"
6: "ANDROID_VERIFY_APPS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
"\346\003\010\252\253\310\347\...0\262\021.\n%com.google.android.
apps.nexuslauncher\020\275\005\030\...\020\000"
6: "ANDROID_GSA"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "0\010\333\360\277\35...1\020\000"
6: "LATIN_IME"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "F\010\275\216\304\344\341.2S\362\002\n\031
PeriodicContextualMetrics\020\000\030...\020\000"
6: "LATIN_IME"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "\357\001\010\273\2... \000"
6: "CALENDAR_UNIFIED_SYNC"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "d\010\276\237...\020\000"
6: "ANDROID_CONTACTS_COUNTERS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "\|\010\223\212\320\343\341.2A*.\n\031com.google.android.
videos\022\0104.4...\020\000"
6: "PLAY_MOVIES_ANDROID_PRIMES"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "\267\013\010\257\254...\004\010\001\020\000"
6: "ICING"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
6: "ACTIVITY_RECOGNITION"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
"C\010\220\310\2...020\000"
6: "MATCHSTICK"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: ",\010\337\264\300...\020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "x\010\253\314\223\347\341.2R\010\001\022com.google.android.
apps.messaging*)n%\n\n\027Noto Color Emoji Compat
\025\000\000\310B...\004\010\001\020\000"
6: "DL_FONTS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\010\250\373\277\350\341.2:\010\000\022,com.google.android.
gms.fonts.state.bundled.0*\010\020\037\030\000\333\267\001x
\000\210\001\252\240\352\017\202\001\010...\020\000"
6: "DL_FONTS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "\177\010\213\301\327\346\341.2d*O\n(com.google.android.
settings.intelligence\022\0341.1.0.254034946.storeRelease
\030\...\020\000"
6: "SETTINGS_INTELLIGENCE_ANDROID_PRIMES"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "I\010\335\315...\020\000"
6: "BUGLE_COUNTERS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "G\010\354\3... \020\000"
6: "BUGLE_COUNTERS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "j\0... \036/usercontext/v1/controllerhub/\030\001*\022\010\...n(com.
google.android.settings.intelligence\022(com.google.android.settings.
intelligence\030\...\020\000"
6: "CONTEXT_MANAGER"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "N\010\352\240...\001\020\000"
6: "GMM_COUNTERS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "I\010\337...\020\000"
6: "GOOGLE_NOW_LAUNCHER"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "\213\001\010\301\243\343\344\341.2Y*D\n\035com.google.
android.apps.turbo\022\0271.9...\020\000"
6: "TURBO_ANDROID_PRIMES"
7: "204=CkQnussnT....NIo6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "I\010\210\...\001\020\000"
6: "PSEUDONYMOUS_ID_COUNTERS"
7: "204=CkQnussnT....NIo6wwGWg"
<...>

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1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\010\2...\020\000"
6: "GAL_PROVIDER"
7: "204=CkQnussnT....NiO6wwGWg"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "\211\003\01...3"com.google.android.apps.wellbeing*\r
.02503085232\0020\000\032\2...00\022\016Binder:26473_4
\030\204\007"Vcom.google.android.apps.wellbeing.appconfig.limit.impl.
AppUsageLimitObserverApiWrapper*0
getDeprecatedRegisterAppUsageLimitObserverMethod2mUsageStatsManager
#registerAppUsageLimitObserver(int, String[], long, TimeUnit,
PendingIntent) does not exist:\n\n\010api_callX
\266\310\220...\020\000"
6: "CLIENT_LOGGING_PROD"
7: "204=CkQnussnT....NiO6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "\220\01...1\n\03217.7.86 (120408-256199907)\020\343\231\225z
\030\021\004(\0102d\n\0052.1.0\022\023The Android Project\032\006
Dalvik"*\0030.9*\023The Android Project2SDalvik Virtual Machine
Specification8\000@\000H\305...\020\000"
6: "GMS_CORE"
7: "204=CkQnussnT....NiO6wwGWg"
<...>
1: 3876027569814251330
<device details>
33: 18446744073709551615
<...>
5: "<\010\324\351...\004\010\001\020\000"
6: "MAGICTETHER_COUNTERS"
7: "204=CkQnussnT....NiO6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "w\010\266\323\233\347\341.2K*6\n\033com.google.android.
contacts\022\0203.5.51.249995595\03...\020\000"
6: "ANDROID_CONTACTS_PRIMES"
7: "204=CkQnussnT....NiO6wwGWg"
<...>
1: 3876027569814251330
<device details>
5:
"\230\001\010\235\305\223...\000\004\030\001\260\001\002\272\001\004\010\03876027569814251330
6: "ANDROID_AUTH"
7: "204=CkQnussnT....NiO6wwGWg"
<...>
1: 3876027569814251330
<device details>
5: "V\010\303\315\223\...\004\010\001\020\000"
6: "ANDROID_MESSAGING"
7: "204=CkQnussnT....NiO6wwGWg"
POST https://play.googleapis.com/log/batch
Headers
x-server-token: CAESKQdyi0h8...HWUVYYKGowA
user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en-US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4
POST body decoded as protobuf:
<...>
1: 3876027569814251330
<device details>
}
4: 1606805455062
5: "7\010\257\222\260\334\341.\022\034com.google.android.apps.
mapsx\000\210...1\020\000"
6: "APP_USAGE_IP"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
}
4: 1606805455062
5: "1606805455062"
6: "DIALER_ANDROID_PRIMES"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "i\010\206\334\254\334\341.2C\n,\n(com.google.android.settings.
intelligence\020\,...\020\000"
6: "BRELLA"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\010\223\301\373\334\341.2P*;\n\033com.google.android.apps.
gcs\022\0253.5 prod (4003 sdk29)\03...\020\000"
6: "WIFI_ASSISTANT_PRIMES"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\010\311\243\364\332\341.2P*;\n\033com.google.android.apps.
gcs\022\0253.5 prod (... \020\000"
6: "WIFI_ASSISTANT_PRIMES"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "7\010\324\267\254\334...\020\000"
6: "PHOTOS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "c\010\225\3...\020\000"
6: "PHOTOS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "c\010\312\245\270\334\341.2H\nF")\n\035\n\033com.google.
android.contacts\n\004\n\002OK\022\002\...\031GrowthKit.
PeriodicSyncJob\n\007\n\005ERROR\022\002...\020\000"
6: "STREAMZ_ANDROID_GROWTH"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\213\001\010\205\323\254\334\341.2p*[\ncom.google.android.
apps.messaging\022\3.3.039...\004\010\001\020\000"
6: "ANDROID_MESSAGING_PRIMES"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: ">\010\312\226\...\010\001\020\000"
6: "STREAMZ_GCM"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: ">\010\207\...\002\272\001\004\010\001\020\000"
6: "STREAMZ_GCM"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>

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1: 3876027569814251330
<device details>
5: "\217\001\010... \272\001\004\010\001\020\000"
6: "WESTWORLD_COUNTERS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\245\002\010\213\300... \010\001\020\000"
6: "ANDROID_GSA"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\250\002\010... \020\000"
6: "ANDROID_GSA"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "F\010\250\300\200\334\341.2S\362\002\n\031
PeriodicContextualMetrics\02...1\020\000"
6: "LATIN_IME"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "F\010\257\314\330\335\341.2S\362\002\n\031
PeriodicContextualMetrics\020\... \020\000"
6: "LATIN_IME"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\361\001\010\305... \020\000"
6: "CALENDAR_UNIFIED_SYNC"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "d\010\304\236...2\272\001\004\010\001\020\000"
6: "ANDROID_CONTACTS_COUNTERS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\\010\201\223\255\334\341.2A*\n\031com.google.android.
videos\02... \010\001\020\000"
6: "PLAY_MOVIES_ANDROID_PRIMES"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "C\010\370\337\342\334\341.... \020\000"
6: "MATCHSTICK"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\010\204\210\255... \004\010\001\020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\010\216\275\254\334... \020\000"
6: "CLEARCUT_LOG_LOSS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "x\010\260\322\254\334\341.2R\010\001\022com.google.android.
apps.messaging*)n%\n\n\027Noto Color Emoji Compat
\025\000\000... \001\020\000"
6: "DL_FONTS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\177\010\202\332\254\334\341.2d*O\n(com.google.android.
settings.intelligence\022\0341.1.0.254034946.storeRelease
\03... \010\001\020\000"
6: "SETTINGS_INTELLIGENCE_ANDROID_PRIMES"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "I\010\327\322\... \020\000"
6: "BUGLE_COUNTERS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\260\002\010\220\333\254\334\341.2\201\002\032\326\001\n
]\n(com.google.android.settings.intelligence\022... \020\000"
6: "CONTEXT_MANAGER"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "K\010\374\247\256... \001\020\000"
6: "GMM_COUNTERS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
6: "ANDROID_DIALER"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\213\001\010\335\303\361\335\341.2Y*D\n\035com.google.
android.apps.turbo\022\0271.9.0.247950067.release\030... \020\000"
6: "TURBO_ANDROID_PRIMES"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "I\010\337\312\...000"
6: "PSEUDONYMOUS_ID_COUNTERS"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\211\003\010\...03\com.google.android.apps.wellbeing*\r1
.0.2503... \016Binder:16330_3\030\204\007\com.google.android.apps.
wellbeing.appconfig.limit.impl.AppUsageLimitObserverApiWrapper*0
getDeprecatedRegisterAppUsageLimitObserverMethod2mUsageStatsManager
#registerAppUsageLimitObserver(int, String[], long, TimeUnit,
PendingIntent) does not exist:\n\n\010api_callX
\266\310\220\32...010\001\020\000"
6: "CLIENT_LOGGING_PROD"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\365\014...2\023The Android Project\032\006Dalvik
\0030.9*\023The Android Project2SDalvik Virtual Machine
Specification8\000@\000H\305\374...1\020\000"
6: "GMS_CORE"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "\342\014\010\3...01\n\03217.7.86 (120408-256199907)
\020\343\231\225z\030\021 \004\0102d\n\0052.1.0\022\023The
Android Project\032\006Dalvik\0030.9*\023The Android
Project2SDalvik Virtual Machine Specification8\000@\000H
\305\374\252...1\020\000"
6: "GMS_CORE"
7: "204=JDGo-eArJlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330

```

```

<device details>
5: "w\010\236\321\264\334\341.2K*6\n\033com.google.android.
contacts\022\...\020\000"
6: "ANDROID_CONTACTS_PRIMES"
7: "204=JDGo-eAr.JlrAsjLL...0UQeL3vYXow"
<...>
1: 3876027569814251330
<device details>
5: "Q\010\216...1\004\010\001\020\000"
6: "ANDROID_MESSAGING"
7: "204=JDGo-eAr.JlrAsjLL...0UQeL3vYXow"
<...>
<<< HTTP 200, 277.00B
POST https://play.googleapis.com/log/batch
Headers
x-server-token: CAESKQDyi0h8...HWUVYYKGowA
user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=ANONYMOUS
POST body decoded as protobuf:
<...>
<device details>
33: 18446744073709551615
<...>
5: "p\010\224\256\304\350\341.2U\nB""\034\n\006\n\004WIFI\n\
n\n\010NO_ERROR\n\002\030...72\001\004\010\001\020\000"
6: "STREAMZ_GCM"
<...>
<device details>
<...>
5:
""\201\002\010\351\264\263\335\341.2\345\001\010\270\304\342\004
z$92636a3d-1499-4748-8206-653ad728d8ad\200\001\001\372\001
Cgoogle/walleye/walleye:10/QP1A.190711.019/5790879:user/release-keys
\222\002$3f97c722-9f47-4af1-8df1-
c1fda576c18a\250\002\00...1\020\000"
6: "ANDROID_SNET_JAR"
<...>
<device details>
5: "{\010\263\3...4\342\004\030\001J$92636a3d
-1499-4748-8206-653ad728d8adR$3f97c722-9f47-4af1-8df1-
c1fda576c18a\000h\00... \020\000"
6: "ANDROID_SNET_GCORE"
<...>
<device details>
5: "{\010\365\246\33... \020\000"
6: "ANDROID_SNET_GCORE"
<...>
<device details>
5: ""\376\022\010\23...0\001\032$3f97c722-9f47-4af1-8df1-
c1fda576c18a""$92636a3d-1499-4748-8206-653ad728d8adB
\010\010\200\270\231\030\354?J\245\002system_ca_cert_store,
setuid_files,gmscore,phonesky,device_state,locale,selinux_status,event_log,
mount_options,app_dir_wr,internal_logs,default_packages,su_files,settings,
ssl_proxy,sd_card_test,attest,carrier_info,logcat,connection_info,
snet_verify_apps_api_usage,app_ops,snet_network_watchlistRCgoogle/
walleye/walleye:10/QP1A.190711.019/5790879:user/release-keysj
\002\020\0...26""r\n$com.google.android.apps.pixelmigrate \000*
... \001\020\000"
6: "ANDROID_SNET_IDLE"
<...>
<device details>
5: ""\212\01...01\032$3f97c722-9f47-4af1-8df1-c1fda576c18a""
$05d46602-fea3-4852-8d3b-8e9b42c9d858B\r\010\200\270\231)
\020\305\277\212\005\030\224$J\245\002system_ca_cert_store,
setuid_files,gmscore,phonesky,device_state,locale,selinux_status,event_log,
mount_options,app_dir_wr,internal_logs,default_packages,su_files,settings,
ssl_proxy,sd_card_test,attest,carrier_info,logcat,connection_info,
snet_verify_apps_api_usage,app_ops,snet_network_watchlistRCgoogle/
walleye/walleye:10/QP1A.190711.019/5790879:user/release-keysj
\002\020\000p\000\212\001S\n\007android \000* \353\310F 1,\221w
\250D\201\342r\... \020\000"
6: "ANDROID_SNET_IDLE"
<...>
<device details>
33: 18446744073709551615
""9\010\267\305\301\350\341.2\033\n\026com.google.android.gms

```

```

\020\277\01... \020\000"
6: "GLAS"
<...>

```

POST https://play.googleapis.com/log/batch

Headers

```

x-server-token: CAESKQDyi0h8...HWUVYYKGowA
user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4

```

POST body decoded as protobuf:

<extensive telemetry>

POST https://play.googleapis.com/log/batch

Headers

```

x-server-token: CAESKQDyi0h8...HWUVYYKGowA
user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4

```

POST body decoded as protobuf:

<telemetry>

POST https://play.googleapis.com/log/batch

Headers

```

x-server-token: CAESKQDyi0h8...HWUVYYKGowA
user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4

```

POST body decoded as protobuf:

<telemetry>

POST https://play.googleapis.com/log/batch

Headers

```

x-server-token: CAESKQDyi0h8...HWUVYYKGowA
user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4

```

POST body decoded as protobuf:

<telemetry>

POST https://android.clients.google.com/fdfe/moduleDelivery

Headers

```

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
%20342741419 (api=3,versionCode=82284210, sdk=29, device=walleye,
hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel
%202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)

```

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1U0t\_Q1tL75..

OmnPuM1mWNi9mvmYlHimY

x-dfe-phenotype: <...>H4sIAAAAAAAAAAB...AcoEZf8B

POST body decoded as protobuf:

<...>

GET https://play.googleapis.com/download/by-token/download?token=

A0Cm...7gjm3&cpn=5EMtibiHN590QuP

<and similar>

POST https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.

AssetLinks/Check

POST body:

```

b'\x00\x00\x00\x00\xd4\x12*delegate_permission/common.
handle_all_urls*\x1d\n\x1b\n\x19https://photos.google.com2\x86\x01\
\x12\x83\x01\n\x1ecom.google.android.apps.photos\x12a\n_3D:7A
:12:23:01:9A:A3:9D:9E:A0:E3:43:6A:B7:C0:89:6B:FB:4F:B6:79:F4:DE:5F:
E7:C2:3F:32:6C:8F:99:4A'

```

GET https://android.clients.google.com/fdfe/delivery?doc=com.google.

```

android.ims&ot=1&vc=30301649&bvc=30021351&pf=1&pf=2&pf=3&pf
=4&pf=5&pf=7&bf=0&fdcf=1&fdcf=2&ch=bdmrc-B_BaG-zpM0N1GtFn-
t3BA&ia=false&isbg=1&isid=-X9s8fuiSZyvpfg1oTbWLG&nocache_qos=lt

```

Headers

```

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D
%20342741419 (api=3,versionCode=82284210, sdk=29, device=walleye,
hardware=walleye, product=walleye, platformVersionRelease=10, model=Pixel
%202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-
v8a;armeabi-v7a;armeabi)

```

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...

A2NzcyNzkzNDA2NzM1

x-dfe-device-checkin-consistency-token: ABFEt1U0t\_Q1tL75..



OmnPuM1mWNi9mvmYLHimY

x-dfe-phenotype: <...>**H4sIAAAAAAAAAAB...AcoEZf8B**

<<<< HTTP 200, 1.75KB

**GET** https://play.googleapis.com/download/by--token/download?token=AOTC...Ej\_cfs-&cpn=HN\_tRT\_0S43vuDa3&isid=

X9s8fuiSZyvpfg1oTbWLG&isbg=1

**GET** https://r3---sn-q0cedn7s.gvt1.com/play-apps-download-default/download/by--id/AF3DWBd7...yeVLU?cpn=HN\_tRT\_0S43vuDa3&initcwndbps=12500&mh=7d&mm=31&mn=sn-q0cedn7s&ms=au&mt=1606805100&mv=m&mvi=3&pl=19&expire=1606978265&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q,initcwndbps,mh,mm,mn,ms,mv,mvi,pl&signature=44B88D94...DCD690&key=am3

<<<< HTTP 200, 5.30MB

**POST** https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.AssetLinks/Check

POST body:

b'\x00\x00\x00\x00\xd4\x12\*delegate\_permission/common.handle\_all\_urls\*\x1d\n\x1b\n\x19https://photos.google.com2\x86\x01\x12\x83\x01\n\x1ecom.google.android.apps.photos\x12a\n\_3D:7A:12:23:01:9A:A3:9D:9E:A0:E3:43:6A:B7:C0:89:6B:FB:4F:B6:79:F4:DE:5F:E7:C2:3F:32:6C:8F:99:4A'

<<<< HTTP 200, 1.52KB

**POST** https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.AssetLinks/Check

POST body:

b'\x00\x00\x00\x00\xc9\x12\*delegate\_permission/common.handle\_all\_urls\*\x12\n\x10\n\x0ehttps://goo.gl2\x86\x01\x12\x83\x01\n\x1ecom.google.android.apps.photos\x12a\n\_3D:7A:12:23:01:9A:A3:9D:9E:A0:E3:43:6A:B7:C0:89:6B:FB:4F:B6:79:F4:DE:5F:E7:C2:3F:32:6C:8F:99:4A'

<<<< HTTP 200, 2.61KB

**POST** https://digitalassetlinks.googleapis.com/google.digitalassetlinks.v1.AssetLinks/Check

Headers

POST body:

b'\x00\x00\x00\x00\xd4\x12\*delegate\_permission/common.handle\_all\_urls\*\x1d\n\x1b\n\x19https://photos.app.goo.gl2\x86\x01\x12\x83\x01\n\x1ecom.google.android.apps.photos\x12a\n\_3D:7A:12:23:01:9A:A3:9D:9E:A0:E3:43:6A:B7:C0:89:6B:FB:4F:B6:79:F4:DE:5F:E7:C2:3F:32:6C:8F:99:4A'

<<<< HTTP 200, 904.00B

**GET** https://play.googleapis.com/download/by--token/download?token=AOTCm0...KOp-LKN4&cpn=ZjBuWq72\_5wSjXIT&isid=

X9s8fuiSZyvpfg1oTbWLG&isbg=1

Headers

<and similar>

**POST** https://play.googleapis.com/play/log?format=raw&proto\_v2=true

POST body decoded as protobuf:

<...>

1: **3876027569814251330**

<device details> 18: 18113913957644263262

<...>

**POST** https://firebaseinstallations.googleapis.com/v1/projects/google.com:cakemix/installations

Headers

X-Android-Package: com.google.android.apps.docs  
{"fid":"eTmJS\_D0SoawgKS2H8ApwX","appId":"1:378076965553:android:aba773073125b303","authVersion":"","FIS\_v2":"","sdkVersion":"","a:16.3.4\_1p"}

<<<< HTTP 200, 575.00B

**POST** https://growth-pa.googleapis.com/google.internal.identity.growth.v1.GrowthApiService/GetPromos

POST body decoded as protobuf:

<...>

**POST** https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675  
app: com.google.android.apps.docs

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=378076965553&sender=378076965553&X-app\_ver=204410640&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-appid=eTmJS\_D0SoawgKS2H8ApwX&X-scope=\*&X-Goog-Firebase-Installations-Auth=eyJhbGciOi...K6Uw&X-gmp\_app\_id=1%3A378076965553%3AAndroid%3Aaba773073125b303&X-Firebase-Client=fire-installations%2F16.3.4\_1p+fire-core%2F19.3.2\_1p+fire-fcm%2F20.1.7\_1p+fire-android%2F4+fire-iiid%2F21.0.1&X-firebase-app-name-hash=R1dAH9U17M-

ynoZnwBdw01tLxhI&X-Firebase-Client-Log-Type=1&X-app\_ver\_name=2.20.441.06.40&app=com.google.android.apps.docs&device=3876027569814251330&app\_ver=204410640&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=38918.../2ced5788&target\_ver=30

**GET** https://play.googleapis.com/download/by--token/download?token=AOTCm0...9xh0p&cpn=p9JFRCYoRb13TAU&isid=exN24KoRTYib1piBtgbGUw&isbg=1

<and similar>

**POST** https://firebaseinstallations.googleapis.com/v1/projects/google.com:api--project-68971793635/installations

Headers

X-Android-Package: com.google.android.videos  
{"fid":"ddBCvzfH7Ma7NY5yDuY34G","appId":"1:68971793635:android:739ea3b3fe8d5f2a","authVersion":"","FIS\_v2":"","sdkVersion":"","a:16.3.4\_1p"}

**OPTIONS** https://beacons.gvt2.com/domainreliability/upload-nel

Headers

origin: https://android.clients.google.com  
user-agent: com.android.vending/82284210 (Linux; U; Android 10; en\_US; Pixel 2; Build/QP1A.190711.019; Cronet/88.0.4314.2)

**GET** https://play.googleapis.com/download/by--token/download?token=AOTCm...P5gsU&cpn=CNtKMLcqsjFvHtQc&isid=

NiZF4f9GTp2CNJbnbxbpRQ&isbg=1

**POST** https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675  
app: com.google.android.videos

X-subtype=68971793635&sender=68971793635&X-app\_ver=42400182&X-

osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-appid=

ddBCvzfH7Ma7NY5yDuY34G&X-scope=\*&X-Goog-Firebase-

Installations-Auth=eyJhbGciOiJFUzI1Ni...VdxA&X-gmp\_app\_id=1%3

A68971793635%3AAndroid%3A739ea3b3fe8d5f2a&X-Firebase-Client=fire-

installations%2F16.3.4\_1p+fire-core%2F19.3.2\_1p+fire-fcm%2F20.1.7\_1p

+fire-android%2F4+fire-iiid%2F21.0.1&X-firebase-app-name-hash=

R1dAH9U17M-ynoZnwBdw01tLxhI&X-Firebase-Client-Log-Type=1&X-

app\_ver\_name=4.24.17&app=com.google.android.videos&device=

**3876027569814251330**&app\_ver=42400182&info=s-

xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert

=24bb24c05e...b613a600&target\_ver=29

<<<< HTTP 200, 169.00B

**POST** https://beacons.gvt2.com/domainreliability/upload-nel

Headers

user-agent: com.android.vending/82284210 (Linux; U; Android 10;

en\_US; Pixel 2; Build/QP1A.190711.019; Cronet/88.0.4314.2)

[{"age":0,"body":{"elapsed\_time":542,"method":"GET","phase":"application

","protocol":"h2","referrer":"","sampling\_fraction":0.05,"server\_ip

":"74.125.193.101","status\_code":200,"type":"ok"},"type":"network-error"

url":"https://android.clients.google.com/fdfe/delivery?doc=com.google.

android.marvin.talkback&ot=1&vc=60105837&bvc=60102761&pf=1&pf

=2&pf=3&pf=4&pf=5&pf=7&bf=0&fdcf=1&fdcf=2&ch=

m0JMLSetUaQm34LtpkcdyukRGE&ia=false&isbg=1&isid=

NiZF4f9GTp2CNJbnbxbpRQ&nocache\_qos=lt","user\_agent":"Android-

Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,

versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=

walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A

.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;

armeabi"]]

<<<< HTTP 200, 0.00B

**POST** https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675

app: com.google.android.videos

gcm\_ver: 204516037

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=859429584213%2C68971793635%2C316244322451&sender

=859429584213%2C68971793635%2C316244322451&X-app\_ver

=42400182&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-

appid=ddBCvzfH7Ma7NY5yDuY34G&X-scope=\*&X-Goog-Firebase-

Installations-Auth=eyJhbGciOi...dxA&X-gmp\_app\_id=1%3A68971793635

%3AAndroid%3A739ea3b3fe8d5f2a&X-firebase-app-name-hash=

R1dAH9U17M-ynoZnwBdw01tLxhI&X-app\_ver\_name=4.24.17&app=com.

google.android.videos&device=3876027569814251330&app\_ver

=42400182&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver

=204516037&plat=0&cert=24bb24c...13a600&target\_ver=29

<<<< HTTP 200, 168.00B

**POST** https://growth-pa.googleapis.com/google.internal.identity.growth.v1.GrowthApiService/GetPromos

## Headers

user-agent: grpc-java-cronet/1.33.0-SNAPSHOT

POST body decoded as protobuf:

<device details>

POST https://firebaseinstallations.googleapis.com/v1/projects/dialer-c31d5/installations

## Headers

X-Android-Package: com.google.android.dialer  
 {"fid":"dykHvII2RZalJDQWNtOBmo","appId":"1:26797372319:android:20175c14e5cce2a3e543aa","authVersion":"FIS\_v2","sdkVersion":"a:16.3.4\_1p"}

GET https://lh3.googleusercontent.com/

upC49MJ6hnag7DPEI4xiuBjeOBy\_MgrqKGURc\_VVmsprzYb85AsnB2uzZLrkP085Tkd

=w173-h173

<<<< HTTP 200, 6.44KB

GET https://lh3.googleusercontent.com/

gwJ13rtysGoO42okYMXmKNSni\_ZN4fDUQS3AZMGNRd\_VAfyHvdnZcndSIDP085Tkd

=w173-h173

<<<< HTTP 200, 10.28KB

<and similar>

POST https://android.clients.google.com/c2dm/register3

## Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675

app: com.google.android.dialer

X-subtype=148555192515&sender=148555192515&X-app\_ver=6602715&X-osv=29&X-cliv=fiid-21.0.0&X-gmsv=204516037&X-appid=dykHvII2RZalJDQWNtOBmo&X-scope=\*&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUzI1Ni...7ufzHW15yg&X-gmp\_app\_id=1%3A26797372319%3Aandroid%3A20175c14e5cce2a3e543aa&X-Firebase-Client=fire-installations%2F16.3.4\_1p+fire-core%2F19.3.2\_1p+fire-iid%2F21.0.0+fire-fcm%2F20.1.7\_1p+fire-android%2F&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-Firebase-Client-Log-Type=1&X-app\_ver\_name=57.0.341875790&app=com.google.android.dialer&device=3876027569814251330&app\_ver=6602715&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=203997bc46b...39&target\_ver=30

<<<< HTTP 200, 169.00B

POST https://android.clients.google.com/c2dm/register3

## Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675

app: com.google.android.dialer

X-subtype=26797372319&sender=26797372319&X-app\_ver=6602715&X-osv=29&X-cliv=fiid-21.0.0&X-gmsv=204516037&X-appid=dykHvII2RZalJDQWNtOBmo&X-scope=\*&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUzI1NiIn...zHW15yg&X-gmp\_app\_id=1%3A26797372319%3Aandroid%3A20175c14e5cce2a3e543aa&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-app\_ver\_name=57.0.341875790&app=com.google.android.dialer&device=3876027569814251330&app\_ver=6602715&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=203997...&target\_ver=30

<<<< HTTP 200, 169.00B

POST https://android.clients.google.com/c2dm/register3

## Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675

app: com.google.android.dialer

X-subtype=dykHvII2RZalJDQWNtOBmo%3  
 AAPA91bHj8m6TT0iGtiq\_IJGyS34euuoag4MNAYbfMrZSIIZKOIZdozef-h1LXSEjZgxfI4nYbIQEcyWm-Fx9blp2be41y7KtBJcCyeupnt14xE9RQXrWYOm2TU70uo4UnVPk\_Q-4ZrNS&X-gcm.topic=%2Ftopics%2FVerifiedCall&sender=dykHvII2RZalJDQWNtOBmo%3  
 AAPA91bHj8m6TT0iGtiq\_IJGyS34euuoag4MNAYbfMrZSIIZKOIZdozef-h1LXSEjZgxfI4nYbIQEcyWm-Fx9blp2be41y7KtBJcCyeupnt14xE9RQXrWYOm2TU70uo4UnVPk\_Q-4ZrNS&X-app\_ver=6602715&X-osv=29&X-cliv=fiid-21.0.0&X-gmsv=204516037&X-appid=dykHvII2RZalJDQWNtOBmo&X-scope=%2Ftopics%2FVerifiedCall&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUz...5yg&X-gmp\_app\_id=1%3A26797372319%3Aandroid%3A20175c14e5cce2a3e543aa&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-app\_ver\_name=57.0.341875790&app=com.google.android.dialer&device=3876027569814251330&app\_ver=6602715&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=203997b...439&target\_ver=30

<<<< HTTP 200, 6.00B

POST https://phonedeviceverification-pa.googleapis.com/google.internal.communications.phonedeviceverification.v1.PhoneDeviceVerification/

## GetConsent

## Headers

x-goog-spatula: CjYKFMNvbS5nb29n...Fwu6/s+CCz+wBKgA=

POST body:

b"\x00\x00\x00\x1f\n...\x07Pixel 2\x82\x01\x06Google\x1a\$7e4a8036-41aa-49ab-bd9e-7d010af89b69"\x02\x08\x07\*\n\x0cpackage\_name\x12\x19com.google.android.dialer\*\n\x11\n\tpolicy\_id\x12\x04hint\*\n\x0bcalling\_api\x12\x11verifyPhoneNumber\*\n\x0fcalling\_package\x12\x19com.google.android.dialer\*\n\x10certificate\_hash\x12\x1cIdmXvEa4eS3JdHq9IwVpBx+aBDk=\n\x01'

GET https://connectivitycheck.gstatic.com/generate\_204

<<<< HTTP 204, 0.00B

POST https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=6&c=1

## Headers

X-SERVER-TOKEN: CAESODYi0h8n...WSSWHEG

POST body decoded as protobuf:

<...>

1: 3876027569814251330

<...>

33: 18446744073709551615

<...>

5: "204=nzTYtxJCBYaNoo...XvuWW4"

<...>

GET https://play.googleapis.com/download/by-token/download?token=AOTcm0...9yhhfb&cpn=wJDsCgAj43cCH5\_H&isid=1fICmmBVTBOI3Ux5a2xzLQ&isbg=1

Headers

<and similar>

POST https://firebaseinstallations.googleapis.com/v1/projects/google.com:orange-headphones/installations

## Headers

X-Android-Package: com.google.android.music  
 {"fid":"dKXS9kGT5Kd5CWuV\_-fsP","appId":"1:241337957434:android:7e6a51e66a32559bd3c903","authVersion":"FIS\_v2","sdkVersion":"a:16.3.4\_1p"}

<<<< HTTP 200, 583.00B

GET https://r1---sn-q0c7rn76.gvt1.com/play-apps-download-default/download/by-id/AF3DWBd7Lw...9SXpE?cpn=pedEWZph5ihUpLCT&initewndbps=13590&mh=Cy&mm=31&mn=sn-q0c7rn76&ms=au&mt=1606805100&mv=m&mvi=1&pl=19&expire=1606978395&ip=37.228.208.145&ipbits=0&sparams=expire,ipbits,ip,q,initewndbps,mh,mm,mn,ms,mv,mvi,pl&signature=DC5B1E8576BCADD...3C48B5FCC2B&key=am3

POST https://android.clients.google.com/c2dm/register3

## Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675

app: com.google.android.music

X-subtype=241337957434&sender=241337957434&X-app\_ver=89161&X-osv=29&X-cliv=fiid-21.0.0&X-gmsv=204516037&X-appid=dKXS9kGT5Kd5CWuV\_-fsP&X-scope=\*&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUzI1NiIn...DiUqxa-A&X-gmp\_app\_id=1%3A241337957434%3Aandroid%3A7e6a51e66a32559bd3c903&X-Firebase-Client=fire-installations%2F16.3.4\_1p+fire-core%2F19.3.2\_1p+fire-iid%2F21.0.0+fire-fcm%2F20.1.7\_1p+fire-android%2F&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-Firebase-Client-Log-Type=1&X-app\_ver\_name=8.28.8916-1.V&app=com.google.android.music&device=3876027569814251330&app\_ver=89161&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=38918...ed5788&target\_ver=28

<<<< HTTP 200, 169.00B

POST https://android.clients.google.com/c2dm/register3

## Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675

X-subtype=dykHvII2RZalJDQWNtOBmo%3

AAPA91bHj8m6TT0iGtiq\_IJGyS34euuoag4MNAYbfMrZSIIZKOIZdozef-h1LXSEjZgxfI4nYbIQEcyWm-Fx9blp2be41y7KtBJcCyeupnt14xE9RQXrWYOm2TU70uo4UnVPk\_Q-4ZrNS&X-gcm.topic=%2Ftopics%2FVerifiedCall&sender=dykHvII2RZalJDQWNtOBmo%3  
 AAPA91bHj8m6TT0iGtiq\_IJGyS34euuoag4MNAYbfMrZSIIZKOIZdozef-h1LXSEjZgxfI4nYbIQEcyWm-Fx9blp2be41y7KtBJcCyeupnt14xE9RQXrWYOm2TU70uo4UnVPk\_Q-4ZrNS&X-app\_ver=6602715&X-osv=29&X-cliv=fiid-21.0.0&X-gmsv=204516037&X-appid=dykHvII2RZalJDQWNtOBmo&X-scope=%2Ftopics%2FVerifiedCall&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUz...ur7ufzHW15yg&X-gmp\_app\_id=1%3A26797372319%3Aandroid%3

<<<< HTTP 200, 169.00B

POST https://android.clients.google.com/c2dm/register3

## Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675

X-subtype=dykHvII2RZalJDQWNtOBmo%3

AAPA91bHj8m6TT0iGtiq\_IJGyS34euuoag4MNAYbfMrZSIIZKOIZdozef-h1LXSEjZgxfI4nYbIQEcyWm-Fx9blp2be41y7KtBJcCyeupnt14xE9RQXrWYOm2TU70uo4UnVPk\_Q-4ZrNS&X-gcm.topic=%2Ftopics%2FVerifiedCall&sender=dykHvII2RZalJDQWNtOBmo%3  
 AAPA91bHj8m6TT0iGtiq\_IJGyS34euuoag4MNAYbfMrZSIIZKOIZdozef-h1LXSEjZgxfI4nYbIQEcyWm-Fx9blp2be41y7KtBJcCyeupnt14xE9RQXrWYOm2TU70uo4UnVPk\_Q-4ZrNS&X-app\_ver=6602715&X-osv=29&X-cliv=fiid-21.0.0&X-gmsv=204516037&X-appid=dykHvII2RZalJDQWNtOBmo&X-scope=%2Ftopics%2FVerifiedCall&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUz...ur7ufzHW15yg&X-gmp\_app\_id=1%3A26797372319%3Aandroid%3

A20175c14e5cce2a3e543aa&X=firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-app\_ver\_name=57.0.341875790&app=com.google.android.dialer&device=3876027569814251330&app\_ver=6602715&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=203997bc...a0439&target\_ver=30  
<<<< HTTP 200, 6.00B

POST https://phonedeviciverification-pa.googleapis.com/google.internal.communications.phonedeviciverification.v1.PhoneDeviceVerification/GetConsent

Headers

x-goog-spatula: CjYKfMnVbS5nB29n...Fwu6/s+CCz+wBKgA=

POST body:

b'\x00\x00\x00...+aBDk=@\x01'

<<<< HTTP 200, 131.00B

GET https://android.clients.google.com/fdfe/delivery?doc=com.google.android.deskclock&ot=1&vc=63101498&bvc=61100212&pf=1&pf=2&pf=3&pf=4&pf=5&pf=7&bf=0&fdcf=1&fdcf=2&ch=OJGKRT0HGZNU-LGa8F7GViztV4g&ia=false&isbg=1&isid=7jp39H91QTuACDISr8wWSA&nocache\_qos=lt

Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210,sdk=29,device=walleye,hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: 35ca6a89e6662742

x-dfe-device-config-token: CisaKQoTMzg3NjAyN...

A2NzcyNzkzNDA2NzZl

x-dfe-device-checkin-consistency-token: ABFEt1U0t\_Q1tL75..

OmnPum1mWni9mvmYLHimY

x-dfe-phenotype: <...>H4sIAAAAAAAB...AcoEzF8B

POST https://firebaseinstallations.googleapis.com/v1/projects/android-safety/installations

Headers

X-Android-Package: com.google.android.apps.safetyhub  
{"fid":"ek7ytZ9aSiKy0SAAWJhdit","appId":"1:624645263144:android:1:10151a8275516624a4ca1d","authVersion":"FIS\_v2","sdkVersion":"a:16.3.4\_1p"}

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.apps.safetyhub  
gcm\_ver: 204516037

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=624645263144&sender=624645263144&X-app\_ver=10006303&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-appid=ek7ytZ9aSiKy0SAAWJhdit&X-scope=\*&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUzI1N...IVqrEZgr&X-gmp\_app\_id=1%3A624645263144%3Aandroid%3A10151a8275516624a4ca1d&X-Firebase-Client=fire-installations%2F16.3.4\_1p+fire-core%2F19.3.2\_1p+fire-fcm%2F20.1.7\_1p+fire-android%2F+fire-iid%2F21.0.1&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-Firebase-Client-Log-Type=1&X-app\_ver\_name=1.3.340477158.lpr&app=com.google.android.apps.safetyhub&device=3876027569814251330&app\_ver=10006303&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=937be3b8...7a0ca212a46b1&target\_ver=29  
<<<< HTTP 200, 169.00B

POST https://play.googleapis.com/play/log?format=raw&proto\_v2=true

Headers

User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419

POST body decoded as protobuf:

<...>

1: 3876027569814251330

<device details> 18: 18113913957644263262

<...>

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.apps.safetyhub  
X-subtype=ek7ytZ9aSiKy0SAAW...WJVCIZ-QAvw568x&X-gcm.topic=%2Ftopics%2Fandroid-safety-test&X-delete=1&sender=ek7ytZ9aSiKy0SAAW...WJVCIZ-QAvw568x&X-app\_ver=10006303&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-appid=ek7ytZ9aSiKy0SAAWJhdit&X-scope=%2Ftopics%2Fandroid-safety-test&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUzI1N...ilVqrEZgr&X-gmp\_app\_id=1%3A624645263144%3Aandroid%3

A10151a8275516624a4ca1d&X=firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-app\_ver\_name=1.3.340477158.lpr&app=com.google.android.apps.safetyhub&device=3876027569814251330&app\_ver=10006303&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=937be3b8be34a87e971ad3160377a0ca212a46b1&target\_ver=29  
<<<< HTTP 200, 6.00B

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.apps.safetyhub

X-subtype=ek7ytZ9aSiKy0SAAW...WJVCIZ-QAvw568x&X-gcm.topic=%2Ftopics%2Fandroid-safety-crisis-cell-global&X-delete=1&sender=ek7ytZ9aSiKy0SAAW...WJVCIZ-QAvw568x&X-app\_ver=10006303&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-appid=ek7ytZ9aSiKy0SAAWJhdit&X-scope=%2Ftopics%2Fandroid-safety-crisis-cell-global&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUzI1N...ilVqrEZgr&X-gmp\_app\_id=1%3A624645263144%3Aandroid%3A10151a8275516624a4ca1d&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-app\_ver\_name=1.3.340477158.lpr&app=com.google.android.apps.safetyhub&device=3876027569814251330&app\_ver=10006303&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=937be3b8be34a87e971ad3160377a0ca212a46b1&target\_ver=29  
<<<< HTTP 200, 6.00B

POST https://beacons.gvt2.com/domainreliability/upload-nel

Headers

user-agent: com.android.vending/82284210 (Linux; U; Android 10; en\_US; Pixel 2; Build/QP1A.190711.019; Cronet/88.0.4314.2)  
[{"age":119714,"body":{"elapsed\_time":61,"method":"POST","phase":"application","protocol":"h2","referrer":"","sampling\_fraction":0.25,"server\_ip":"74.125.193.94","status\_code":200,"type":"ok"},"type":"network-error","url":"https://beacons.gvt2.com/domainreliability/upload-nel","user\_agent":"com.android.vending/82284210 (Linux; U; Android 10; en\_US; Pixel 2; Build/QP1A.190711.019; Cronet/88.0.4314.2)"}]  
POST https://firebaseinstallations.googleapis.com/v1/projects/google.com:api-project-658104395416/installations

Headers

X-Android-Package: com.google.android.apps.maps  
x-firebase-client: fire-installations/16.3.4\_1p fire-core/19.3.2\_1p fire-fcm/20.1.7\_1p fire-android/ fire-analytics/18.0.1 fire-iid/21.0.1  
{"fid":"dxlZIRG9g4U","appId":"1:658104395416:android:f92af935c17dc6589092ed","authVersion":"FIS\_v2","sdkVersion":"a:16.3.4\_1p"}

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.apps.maps

X-subtype=658104395416&sender=658104395416&X-app\_ver=1055201240&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-appid=dxlZIRG9g4U&X-scope=\*&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUzI1N...xyFFq55ftE2HBCM&X-gmp\_app\_id=1%3A658104395416%3Aandroid%3Af92af935c17dc6589092ed&X-Firebase-Client=fire-installations%2F16.3.4\_1p+fire-core%2F19.3.2\_1p+fire-fcm%2F20.1.7\_1p+fire-android%2F+fire-analytics%2F18.0.1+fire-iid%2F21.0.1&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-Firebase-Client-Log-Type=1&X-app\_ver\_name=10.55.2&app=com.google.android.apps.maps&device=3876027569814251330&app\_ver=1055201240&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788&target\_ver=30  
<<<< HTTP 200, 20.00B

POST https://android.clients.google.com/c2dm/register3

Headers

Authorization: AidLogin 3876027569814251330:4707843177977026675  
app: com.google.android.apps.maps

X-subtype=658104395416&sender=658104395416&X-app\_ver=1055201240&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-appid=duj\_PkTpUVYx7JU8jnWhxu&X-scope=\*&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJFUzI1N...xyFFq55ftE2HBCM&X-gmp\_app\_id=1%3A658104395416%3Aandroid%3Af92af935c17dc6589092ed&X-firebase-app-name-hash=R1dAH9Ui7M-ynoznwBdw01tLxhI&X-app\_ver\_name=10.55.2&app=com.google.android.apps.maps&device=3876027569814251330&app\_ver=1055201240&info=s-xTeoyqJEUQQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=38918a453d07199354f8b19af05ec6562ced5788&target\_ver=30  
<<<< HTTP 200, 169.00B

POST https://android.clients.google.com/c2dm/register3







```

<<<< HTTP 204, 0.00B
GET https://connectivitycheck.gstatic.com/generate_204
<<<< HTTP 204, 0.00B
GET https://www.gstatic.com/messages/smarts/smart_actions_ml_models/
emotions_reply_combined_012_confidence.pb
<and similar>
POST https://firebaseinstallations.googleapis.com/v1/projects/google.com:api
-project-1086610230652/installations
Headers
  Cache-Control: no-cache
  X-Android-Package: com.google.android.googlequicksearchbox
  x-goog-fis-android-iid-migration-auth: c12fbNIO-js:APA...X4jv1-iu
{"fid": "c12fbNIO-js", "appId": "1:1086610230652:android:131e4c3db28fca84
", "authVersion": "FIS_v2", "sdkVersion": "a:16.3.4_1p"}
<<<< HTTP 200, 542.00B
GET https://www.gstatic.com/messages/smarts/smart_actions_grammars/
pumpkin_model_config_sticker.pb
<and many similar>
POST https://firebaseinstallations.googleapis.com/v1/projects/google.com:
youtube-android/installations
Headers
  X-Android-Package: com.google.android.youtube
  x-goog-fis-android-iid-migration-auth: fta4z2sOV8I:APA91...
EFijkGUKvMY8amnG6z2jSG4zBdAOCzH_Wmb-
p2D4E0G0m8p6INYpEpr00ObVZZdM_RJJD2wsF-
Y4nMNxFHqkzSS5dqsMGZX5rWOMxpdKgzp-
edzR9UQS1rwRB8IsyDoOhk
{"fid": "fta4z2sOV8I", "appId": "1:414843287017:android:9d526f6607903f60
", "authVersion": "FIS_v2", "sdkVersion": "a:16.3.4_1p"}
GET https://www.youtube.com/csi_204?v=3&s=youtube_android&action=
process&yt_lt=frozen&yt_fi=1&mod_li=0&conn=3&it=proc_k.-210.cfg_a
.191.cfg_c.191.cfg_h.191.app_1.573.f_proc.617&cplatform=mobile&cbr=com
.google.android.youtube&c=android&cmodel=Pixel%202&cos=Android&
csdk=29&cbrver=15.47.36&cver=15.47.36&cosver=10&cbrand=Google&
proc=8
Headers
  user-agent: com.google.android.youtube/15.47.36(Linux; U; Android 10;
en_US; Pixel 2 Build/QP1A.190711.019) gzip
<<<< HTTP 204, 0.00B
GET https://www.googleadservices.com/pagead/conversion/1001680686/?
bundleid=com.google.android.youtube&appversion=15.47.36&osversion
=10&sdksversion=ct-sdk-a-v2.2.4&gms=1&lat=0&rdid=
8f29ff...f7804a3bd&timestam=1606805885.990&remarketing_only=1&
usage_tracking_enabled=0&data.screen_name=%3CAndroid_YT_Open_App
%3E
<<<< HTTP 200, 0.00B
HEAD https://youtubei.googleapis.com/generate_204
Headers
  user-agent: com.google.android.youtube/15.47.36(Linux; U; Android 10;
en_US; Pixel 2 Build/QP1A.190711.019) gzip
<<<< HTTP 204, 0.00B
GET https://www.gstatic.com/webref-ondevice/am/20201129/8315
c6201e0efb2551905d646be01a43fcb35c15.zip
<<<< HTTP 200, 132.67KB
POST https://android.clients.google.com/c2dm/register3
Headers
  Authorization: AidLogin 3876027569814251330:4707843177977026675
app: com.google.android.youtube
  X-subtype=414843287017&sender=414843287017&X-app_ver
=1516234176&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-
appid=fta4z2sOV8I&X-scope=*&X-Goog-Firebase-Installations-Auth=
eyJhbGciOi...YUUX&X-gmp_app_id=1%3A414843287017%3AAndroid%3
A9d526f6607903f60&X-Firebase-Client=fire-installations%2F16.3.4_1p+
fire-core%2F19.3.2_1p+fire-fcm%2F20.1.7_1p+fire-analytics%2F18.0.1+
fire-android%2F+fire-iid%2F21.0.1&X-firebase-app-name-hash=
R1dAH9U17M-ynoznbDw01LxhI&X-Firebase-Client-Log-Type=1&X-
app_ver_name=15.47.36&app=com.google.android.youtube&device=device=
3876027569814251330&target_ver=30
<<<< HTTP 200, 158.00B
GET https://play.googleapis.com/play/log/timestamp
<<<< HTTP 200, 13.00B
Set-Cookie: NID=204=xGX6BfSe5a...WIEH3c; expires=Wed, 02-Jun
-2021 06:58:16 GMT; path=/; domain=play.googleapis.com; HttpOnly
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: Android/com.google.android.music/89161
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
<device details>
"4\010\353\222\312\330\341.\022\rMusicEventLog2
\01...0\326\330\341."
<...>
POST https://play.googleapis.com/play/log?format=raw&proto_v2=true
Headers
  User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5
D%20342741419
POST body decoded as protobuf:
<...>
  1: 3876027569814251330
<device details>
<...>
5: "\360\021\010\277\223\320\350\341.\022\00142\227\001"i\010e
\022\034com.google.android.apps.mapsZ7\010\330...\350\341."
<...>
<<<< HTTP 200, 115.00B
GET https://app-measurement.com/config/app/1%3A456627340871%3
Aandroid%3A4a33510f55155c99?app_instance_id=4
d1fc65466daa482b1633a755f21fe92&platform=android&gmp_version
=204516
Headers
  If-Modified-Since: Mon, 15 Jun 2020 22:23:20 GMT
<<<< HTTP 304, 0.00B
POST https://app-measurement.com/a
POST body decoded as protobuf:
<...>
  2 {
    1 {
      1: "duration_ms"
      3: 204
    }
  }
<...>
  1 {
    1: "tag"
    2: "japanese_phrases"
  }
  1 {
    1: "bytes"
    3: 65
  }
  1 {
    1: "retries"
    3: 0
  }
}
<...>
  2 {
<...>
  2: "dir_app_refresh"
  3: 1606805879140
  4: 1606805860207
}
}
<...>
  14: "com.google.vr.apps.ornament"
  16: "2.10.200512036"
  17: 27012
  18: 204516
  19: "8f29ff...f7804a3bd"
  20: 0
  21: "4d1fc65466daa482b1633a755f21fe92"
  22: 5239675225638311595
  23: 3
  25: "1:456627340871:android:4a33510f55155c99"
<...>
<<<< HTTP 204, 0.00B
POST https://www.googleapis.com/experimentsandconfigs/v1/
getExperimentsAndConfigs?r=1&c=1
Headers
  X-SERVER-TOKEN: CAESQDyioh8n...WSSWHEgPOST body
decoded as protobuf:
1: \textbf{3876027569814251330};i...;33:
18446744073709551615;i...;\http{POST}
https://play.googleapis.com/log/batchHeadersx-server-token:
\textbf{CAESQDyioh8n...HWUVYYKGowA}
  user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)

```

cookie: NID=204=nzTYtxJCBYaNoo...XvuWW4

POST body decoded as protobuf:

<...>

1: 3876027569814251330

<device details>

33: 18446744073709551615

<extensive telemetry>

GET https://www.google.com/complete/search?oe=utf-8&safe=images&gcc=ie&ctzn=Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram\_mb=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbs-android-asbl-pb&qsbs=1606813077094&padt=200&padb=684&cs=0&cds=2&psm=0&gs\_pcr=t&q=&cp=0&psi=pO2fBueV-nI.1606805877557.0&ech=1&dpr=2.625&gs\_pcr=1&xssi=t&getexp=1

Headers

x-client-data: ar8LH4sIAAAAAAAAAA...8wgAAA

<<< HTTP 200, 14.68KB

<and so on – telemetry connections to /log/batch end point are v large and too long to include here>

### B. Connections When Phone Idle & User Not Logged Into Google Account

When the user is logged out and location is disabled the following handset network connections are made:

- 1) Roughly every 6 hours the handset makes a connection to android.googleapis.com/checkin that sends many device identifiers including the handset hardware serial number, AndroidId, the sim IMEI and IMSI and the handset Wifi MAC address. When a sim is inserted into the handset connections are made to android.clients.google.com/fdfe/uploadDynamicConfig, android.googleapis.com/checkin and play.googleapis.com/log/batch which share the handset phone number, sim IMEI and IMSI plus mobile carrier details with Google and link these to the AndroidId, handset hardware serial number and Wifi MAC address.
- 2) The handset connects regularly to Google's SafetyNet device attestation service at www.googleapis.com. These connections send the hardware serial number, RDID device identifier (associated with advertising/measurement<sup>3</sup>) and a DroidGuard opaque binary blob (the contents of this are intentionally obfuscated by Google, so its not clear whether it contains device/user identifiers<sup>4</sup>).
- 3) The handset also connects regularly to what seems to be Google's A/B testing infrastructure at www.googleapis.com/experimentsandconfigs. These connections send a cookie and authentication token together with device details.
- 4) Logging/telemetry data is frequently send (every 10-20 minutes) to play.googleapis.com/log/batch. This telemetry is tagged with device AndroidId and an authentication token. The volume of this telemetry is substantial **give some numbers** but the content is largely opaque (binary protobufs with complex structure). The messages sent to play.googleapis.com/log/batch appear to be aggregated from multiple logging sources, with names including:

CARRIER\_SERVICES, ANDROID\_DIALER,  
ONEGOOGLE\_MOBILE, GOOGLE\_NOW\_

LAUNCHER, DRIVE, COPRESENCE\_NO\_IDS,  
AUTOFILL\_WITH\_GOOGLE, SCOOPY\_EVENTS,  
SCOOPY\_EVENT\_LOG, BEACON\_GCORE, NETREC,  
BRELLA, GOOGLE\_HELP, PHOTOS, CALENDAR,  
CALENDAR\_UNIFIED\_SYNC, BUSINESS\_VOICE,  
IDENTITY\_FRONTEND, GMS\_CORE\_PEOPLE,  
LATIN\_IME, DL\_FONTS, CAR, ICING, ACTIVITY\_  
RECOGNITION, ANDROID\_CONTACTS, ANDROID\_  
GROWTH, ANDROID\_GSA, CLIENT\_LOGGING\_  
PROD, GOOGLLETS, CAST\_SENDER\_SDK,  
ANDROID\_VERIFY\_APPS, ANDROID\_DIALER,  
ANDROID\_BACKUP, ANDROID\_MESSAGING,  
ANDROID\_OTA, ANDROID\_GMAIL, ANDROID\_  
SNET\_GCORE, GAL\_PROVIDER, GLAS, TACHYON\_  
LOG\_REQUEST, CLEARCUT\_FUNNEL, CLEARCUT\_  
LOG\_LOSS, DIALER\_ANDROID\_PRIMES,  
CARRIER\_SERVICES\_ANDROID\_PRIMES, TURBO\_  
ANDROID\_PRIMES, PHOTOS\_ANDROID\_PRIMES,  
ANDROID\_MESSAGING\_PRIMES, GOOGLLETS\_  
ANDROID\_PRIMES, SETTINGS\_INTELLIGENCE\_  
ANDROID\_PRIMES, ANDROID\_GSA\_ANDROID\_  
PRIMES, SAFETYHUB\_ANDROID\_PRIMES,  
WIFI\_ASSISTANT\_PRIMES, DRIVE\_ANDROID\_  
PRIMES, GMAIL\_ANDROID\_PRIMES, STREAMZ\_  
ANDROID\_GROWTH, STREAMZ\_ANDROID\_GSA,  
STREAMZ\_ONEGOOOGLE\_ANDROID, STREAMZ\_  
HERREVAD, STREAMZ\_CALENDAR, STREAMZ\_  
PHOTOS\_ANDROID, STREAMZ\_ANDROID\_AUTH\_  
ACCOUNT, STREAMZ\_GELLER, STREAMZ\_NGA,  
BUGLE\_COUNTERS, PSEUDONYMOUS\_ID\_  
COUNTERS, GMAIL\_COUNTERS, WESTWORLD\_  
COUNTERS, GOOGLE\_KEYBOARD\_COUNTERS,  
ANDROID\_CONTACTS\_COUNTERS, WALLPAPER\_  
PICKER\_COUNTERS, PLATFORM\_STATS\_  
COUNTERS.

The CARRIER\_SERVICES and ANDROID\_DIALER sources are observed to send details of mobile operator and phone number, amongst other things.

- 5) In addition, the Google Play store app also generates its own telemetry/logging, tagged with the AndroidId and rdid persistent device identifiers.
- 6) Several pre-installed system apps make regular network connections that share device identifiers and details. These include:
  - a) The Nexus launcher searchbar connects to www.google.com/complete/search using a cookie and events related to the app are logged by Google Analytics app-measurement.com.
  - b) The Clock app connects to Google Analytics ssl.google-analytics.com/batch.
  - c) The SafetyHub app periodically connects with Google's Firebase service at android.clients.google.com, sending the device AndroidId and the app FirebaseId

<sup>3</sup><https://developers.google.com/ads-data-hub/guides/rdid-matching>

<sup>4</sup><https://github.com/microg/GmsCore/issues/1139>

- d) The Youtube app makes connections to `youtubei.googleapis.com/youtubei/v1/account` and `youtubei.googleapis.com/youtubei/v1/log_event`, both send a device identifier and an authentication token. The Youtube app (or a process on its behalf) also makes connections to `www.googleadservices.com`, sending the `rdid` device identifier used for advertising. In addition, the Youtube app makes periodic probe connections to `/i.ytimg.com/generate_204` and `youtubei.googleapis.com/generate_204`.
- e) The Chrome browser app makes periodic connections to the Google Safe Browsing anti-phishing service `safebrowsing.googleapis.com` and the Chrome update service `update.googleapis.com`. It also connects to `accounts.google.com`. No identifiers are sent.
- f) The Google Docs and Messaging apps (or a process on its behalf) connect to `growth-pa.googleapis.com/google.internal.identity.growth.v1.GrowthApiService/GetPromos`, sending device details but no unique identifiers.
- 7) Connections are made to `mobilenetworkscoring-pa.googleapis.com/v1/GetWifiQuality` that may include a device identifier (via the X-Client-Data header). The purpose of this connection is unclear.
- 8) When the user is logged out and location is enabled no additional handset network connections are observed.

#### Connection details:

The following connection to the checkin endpoint is made roughly every 6 hours:

POST <https://android.googleapis.com/checkin>

Headers

Cookie: `NID=204=sa8sIUm5eJ9...NabihZ3RNI`

POST body decoded as protobuf:

2: `3876027569814251330` *AndroidId*

3: `"1-c76e85ab49fc17e225f48682e0737fdac96aee87"`

<device details>

2: `1606772181912`

6: `"27205"` *Mobile operator*

7: `"27211"` *sim operator*

8: `"WIFI:"`

<...>

16 {

1: `"27211"` *sim operator*

2: `"Tesco Mobile"` *Mobile carrier*

3: `"0"` *Roaming, 0 or 1*

4: `0` *Device feature: voice*

4: `1` *Device feature: data*

4: `2` *Device feature: sms*

6: `"272110103800000"` *sim IMSI, uniquely identifies caller on cellular network*

*network*

7: `"0AFF"` *Mobile*

*Group ID Level 1*

8: `"\025\345"` *SHA-256 hash of sim IMSI*

<...>

9: `"e60d4b46d158"` *Wifi MAC address*

10: `"357537080984248"` *sim IMEI*

11: `""` *When user is logged in this reports the user email address*

12: `"Europe/Dublin"`

13: `0x41559e6d59911873` *Security token*

14: `3`

15: `"bfMkwyjnHzXGBPc2WT62otR8JkI="`

16: `"HT7AC1A04090"` *Handset hardware serial number*

<software installed>

<hardware capabilities>

19: `"wifi"`

20: `0`

22: `0`

24: `"CgYqtj3OocES-2UKBoGpQIpsRtlQQA...Sy6P2voE9Sz"` *Device key: droidguard binary blob*

<...>

The following connections relate to Google's SafetyNet device attestation service:

POST <https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZ...wzOlz-ITI>

Headers

User-Agent: `DroidGuard/204516037`

POST body decoded as protobuf:

<device details>

1: `"SERIAL"`

2: `"HT7AC1A04090"` *Handset hardware serial number*

<...>

POST <https://www.googleapis.com/androidcheck/v1/attestations/adAttest?key=AlzaSyDae...HIXAkZlz3dA>

Headers

User-Agent: `GmsCore/204516037 (walleye QP1A.190711.019); gzip`

POST body decoded as protobuf:

1 {

1: `"8f29fffe-e9ca-486d-aa1b-516f7804a3bd"` *rdid device identifier*

2: `204516037` *gcm\_ver*

3: `1`

4: `1606882007730` *timestamp*

}

2: `"CgZFKAgFrMMSs2QKBrO...EBYiAA"` *Device key: droidguard binary blob*

The following connection appears to be related to A/B testing by Google:

POST <https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=2&c=1>

Headers

X-SERVER-TOKEN: `CAESODQdyi0h8nZpA...Of4WSSWHEg`

POST body decoded as protobuf:

<device details>

5: `"204=GqEvtbegiAcHEQ...Yc6rp4S4vs"` *Cookie*

<installed software and hardware capabilities>

<what appears to be telemetry>

The following telemetry/logging connection is made roughly every 10-20 minutes:

POST <https://play.googleapis.com/log/batch>

Headers

x-server-token: `CAESKQDyioh8ELN...nP7hjetxcHWUVYYKGowA`

POST body decoded as protobuf:

<Device details plus data from various logging sources (which change from connection to connection) is sent. The logging sources include:

CARRIER\_SERVICES, ANDROID\_DIALER, ONEGOOGLE\_MOBILE, GOOGLE\_NOW\_LAUNCHER, DRIVE, COPRESENCE\_NO\_IDS, AUTOFILL\_WITH\_GOOGLE, SCOOPY\_EVENTS, SCOOPY\_EVENT\_LOG, BEACON\_GCORE, NETREC, BRELLA, GOOGLE\_HELP, PHOTOS, CALENDAR, CALENDAR\_UNIFIED\_SYNC, BUSINESS\_VOICE, IDENTITY\_FRONTEND, GMS\_CORE\_PEOPLE, LATIN\_IME (Latin is the internal name for GBoard), DL\_FONTS, CAR, ICING, ACTIVITY\_RECOGNITION, ANDROID\_CONTACTS, ANDROID\_GROWTH, ANDROID\_GSA, CLIENT\_LOGGING\_PROD, GOOGLETTS, CAST\_SENDER\_SDK, ANDROID\_VERIFY\_APPS, ANDROID\_DIALER, ANDROID\_BACKUP, ANDROID\_MESSAGING, ANDROID\_OTA, ANDROID\_GMAIL, ANDROID\_SNET\_GCORE, GAL\_PROVIDER, GLAS, TACHYON\_LOG\_REQUEST, CLEARCUT\_FUNNEL, CLEARCUT\_LOG\_LOSS, DIALER\_ANDROID\_PRIMES, CARRIER\_SERVICES\_ANDROID\_PRIMES, TURBO\_ANDROID\_PRIMES, PHOTOS\_ANDROID\_PRIMES, ANDROID\_MESSAGING\_PRIMES, GOOGLETTS\_ANDROID\_PRIMES, SETTINGS\_INTELLIGENCE\_ANDROID\_PRIMES, ANDROID\_GSA\_ANDROID\_PRIMES, SAFETYHUB\_ANDROID\_PRIMES, WIFI\_ASSISTANT\_PRIMES, DRIVE\_ANDROID\_PRIMES, GMAIL\_ANDROID\_PRIMES, STREAMZ\_ANDROID\_GROWTH, STREAMZ\_ANDROID\_GSA, STREAMZ\_ONEGOOOGLE\_ANDROID, STREAMZ\_HERREVD, STREAMZ\_CALENDAR, STREAMZ\_PHOTOS\_ANDROID, STREAMZ\_ANDROID\_AUTH\_ACCOUNT, STREAMZ\_GELLER,

STREAMZ\_NGA, BUGLE\_COUNTERS,  
PSEUDONYMOUS\_ID\_COUNTERS, GMAIL\_COUNTERS,  
WESTWORLD\_COUNTERS, GOOGLE\_KEYBOARD\_COUNTERS,  
ANDROID\_CONTACTS\_COUNTERS,  
WALLPAPER\_PICKER\_COUNTERS, PLATFORM\_STATS\_COUNTERS>

**In addition, the Google Play store app also generates its own telemetry/logging:**

**POST** [https://play.googleapis.com/play/log?format=raw&proto\\_v2=true](https://play.googleapis.com/play/log?format=raw&proto_v2=true)  
Headers

User-Agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419

POST body decoded as protobuf:

<AndroidId, rrid, device details and opaque binary message data>  
and the following connection appears to be associated with refresh of credentials by the Google Play store app:

**POST** [https://android.clients.google.com/fdfe/accountSync?nocache\\_qos=lt](https://android.clients.google.com/fdfe/accountSync?nocache_qos=lt)  
Headers

user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210, sdk=29,device=walleye, hardware=walleye,product=walleye,platformVersionRelease=10,model=Pixel%202,buildId=QP1A.190711.019,isWideScreen=0,supportedAbis=arm64-v8a;armeabi-v7a;armeabi)

x-dfe-device-id: **35ca6a89e6662742**

x-dfe-device-config-token:

**CisaKQoTMzg3NjAy...2ODUxOTU4Mjg4NTkx**

x-dfe-device-checkin-consistency-token: **ABFEt1Wy28in...YsZqMs5**

x-dfe-phenotype: H4sIAAAAAAAAAAAB...ALQ+64G

POST body decoded as protobuf:

```
1 {
  1: "dHVKO5LRP..pK9e" // Firebase id of Google Play store app
}
```

**Various pre-installed system apps generate connections. The Searchbar regularly generates the following connection:**

**GET** [https://www.google.com/complete/search?oe=utf-8&safe=images&gcc=ie&ctzn=Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram\\_mb=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbs-android-asbl-pb&qsubs=1606856279091&padt=200&padb=684&cs=0&cds=2&psm=0&gs\\_pcr=t&q=&cp=0&psi=bT\\_hbOjp8D8.1606856279097.0&ech=0&dpr=2.625&gs\\_pcr=1&xssi=t](https://www.google.com/complete/search?oe=utf-8&safe=images&gcc=ie&ctzn=Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram_mb=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbs-android-asbl-pb&qsubs=1606856279091&padt=200&padb=684&cs=0&cds=2&psm=0&gs_pcr=t&q=&cp=0&psi=bT_hbOjp8D8.1606856279097.0&ech=0&dpr=2.625&gs_pcr=1&xssi=t)  
Headers

x-client-data: asUMH4sIAAAAAA...YZF\_CQAA

cookie: **NID=204=rTA6udKhrY26XSa...1DRaSIxk**

The following Google Analytics connections are made (apparently by the system Clock, Youtube and Searchbar apps):

**POST** <https://ssl.google-analytics.com/batch>

Headers

User-Agent: GoogleAnalytics/204.5.16 (Linux; U; Android 10; en-us; Pixel 2 Build/QP1A.190711.019)

a=119870568&utc=Bedtime&aip=1&an=Clock&tid=UA-61414137-1&aiid=com.android.vending&utt=118&t=timing&\_s=5&av=6.3.1+28325360271%29&utv=Fetch+Sleep+Data+Success&v=1&\_v=ma203.0.12&ul=en-us&aid=com.google.android.deskclock&cid=da1a982f-9cd0-4216-9810-c3e5ca15227c&sr=1080x1794&ht=1606854832702&qt=58663&\_gmsv=204.5.16

a=119870568&el=Tap&aip=1&an=Clock&tid=UA-61414137-1&aiid=com.android.vending&t=event&\_s=6&av=6.3.1+28325360271%29&v=1&\_v=ma203.0.12&ul=en-us&ea=Show+Tab&aid=com.google.android.deskclock&ec=Alarm&cid=da1a982f-9cd0-4216-9810-c3e5ca15227c&sr=1080x1794&ht=1606854834719&qt=56647&\_gmsv=204.5.16

**GET** [https://www.googleadservices.com/pagead/conversion/1001680686/?bundleid=com.google.android.youtube&appversion=15.47.36&osversion=10&sdksversion=ct-sdk-a-v2.2.4&gms=1&lat=0&rdid=8f29ffe-e9ca-486d-aa1b-516f7804a3bd&timestamp=1606857899.987&remarketing\\_only=1&usage\\_tracking\\_enabled=0&data.screen\\_name=%3CAndroid\\_YT\\_Open\\_App%3E](https://www.googleadservices.com/pagead/conversion/1001680686/?bundleid=com.google.android.youtube&appversion=15.47.36&osversion=10&sdksversion=ct-sdk-a-v2.2.4&gms=1&lat=0&rdid=8f29ffe-e9ca-486d-aa1b-516f7804a3bd&timestamp=1606857899.987&remarketing_only=1&usage_tracking_enabled=0&data.screen_name=%3CAndroid_YT_Open_App%3E)  
Headers

user-agent: **com.google.android.youtube/1516234176** (Linux; U; Android 10; en\_US; Pixel 2; Build/QP1A.190711.019; Cronet/88.0.4314.2)

**POST** <https://app-measurement.com/a>

POST body decoded as protobuf:

<...>

<device details>

12: 0

14: "com.google.android.googlequicksearchbox"

<...>

The following connection by the Safetyhub app periodically connects with Google's Firebase service:

**POST** <https://android.clients.google.com/c2dm/register3>

Headers

Authorization: AidLogin **3876027569814251330**:4707843177977026675

app: com.google.android.apps.safetyhub

User-Agent: Android-GCM/1.5 (walleye QP1A.190711.019)

X-subtype=ek7ytZ9aSiKy...vw568x&X-gcm.topic=%2Ftopics%2Fandroid-safety-test&X-delete=1&sender=ek7ytZ9aSiKy0SAAW...QAvw568x&X-app\_ver=10006303&X-osv=29&X-cliv=fiid-21.0.1&X-gmsv=204516037&X-appid=ek7ytZ9aSiKy0SAAWJhdit&X-scope=%2Ftopics%2Fandroid-safety-test&X-Goog-Firebase-Installations-Auth=eyJhbGciOiJIUzI1Ni...rEZgr&X-gmp\_app\_id=1%3A624645263144%3Aandroid%3A10151a8275516624a4ca1d&X-firebase-app-name-hash=R1dAH9U7iM-ynoznwBdw01LxhL&X-app\_ver\_name=1.3.340477158.lpr&app=com.google.android.apps.safetyhub&device=**3876027569814251330**&app\_ver=10006303&info=s-xTeoyqJEUQKri541rkWVljs2xYRc&gcm\_ver=204516037&plat=0&cert=937be3...a212a46b1&target\_ver=29

<<< HTTP 200, 6.00B

The device parameter is the handset AndroidId and the Auth parameter is a jwt token that decodes to:

```
{
  "fid": "ek7ytZ9aSiKy0SAAWJhdit",
  "...": "...",
  "appid": "1:624645263144:android:10151a8275516624a4ca1d"
}
```

where fid is the Firebase Id, a unique app instance identifier.

The pre-installed Youtube app additionally generates the following connections:

**HEAD** [https://i.ytimg.com/generate\\_204](https://i.ytimg.com/generate_204)

Headers

user-agent: com.google.android.youtube/15.47.36(Linux; U; Android 10; en\_US; Pixel 2 Build/QP1A.190711.019) gzip

**HEAD** [https://youtubei.googleapis.com/generate\\_204](https://youtubei.googleapis.com/generate_204)

Headers

user-agent: com.google.android.youtube/15.47.36(Linux; U; Android 10; en\_US; Pixel 2 Build/QP1A.190711.019) gzip

**POST** [https://youtubei.googleapis.com/youtubei/v1/log\\_event?key=A1zaSyA8e...vz\\_yYM39w](https://youtubei.googleapis.com/youtubei/v1/log_event?key=A1zaSyA8e...vz_yYM39w)

Headers

x-goog-device-auth: **device\_id=AP+lc7/KUrgd/FLH79M4...JTWzW, data=AIBMSbyy1lQn, content=AIBMSbxUqYK...em9aA**

x-goog-visitor-id: CgtMTjJVc...hQSj1y5r-BQ%3D%3D

user-agent: com.google.android.youtube/15.47.36(Linux; U; Android 10; en\_US; Pixel 2 Build/QP1A.190711.019) gzip

POST body decoded as protobuf:

```
<device details>
  1: "CPbLmv4FEliMrQUQloutB...7YqtBRDz-awFEPiFrQU%3D"
  3: "CPbLmv4FEiA3NDE0MTR...YTQwNjcy2y5r-BQ%3D%3D"
  5: "CPbLmv4FEiBhNmZkN...wSKLbs_BIot-H8Eij66vwS"
  <...>
  1: "ms"
  2: "CoACUYx8nEQD1CLxRc9ZadBHK...f3vVls"
  <...>
```

**POST** [https://youtubei.googleapis.com/youtubei/v1/account/get\\_setting?key=A1zaSyA8e...vz\\_yYM39w](https://youtubei.googleapis.com/youtubei/v1/account/get_setting?key=A1zaSyA8e...vz_yYM39w)  
Headers

x-goog-device-auth: **device\_id=AP+lc7/KUrgd/FLH...RwQD5JTWzW, data=AIBMSbWnkRnY, content=AIBMSbyIjmr...IKOo9PQ**

x-goog-visitor-id: CgtMTjJVc0...QSj1y5r-BQ%3D%3D

user-agent: com.google.android.youtube/15.47.36(Linux; U; Android 10; en\_US; Pixel 2 Build/QP1A.190711.019) gzip

POST body decoded as protobuf:

```
<device details>
  1: "CMSjnP4FEliHrQUQi4ytBRDtqi0FEJ...msBRD4ha0F"
  3: "CPHNnP4FEiBIN2Ez...yZrjEo5z-BQ%3D%3D"
  5: "CPHNnP4FEiAzNDg5...SKLbs_BIot-H8Eij66vwS"
  <...>
```

1: "ms"

2: "CoACQohcnE0B...gHmxItMEgE"

<...>

The pre-installed Searchbar app additionally generates the following connection:

**GET** <https://www.google.com/complete/search?oe=utf-8&safe=images&gcc>



```
=ie&ctzn=Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram_mb=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbl-asbl-pb&qsbl=1606863545952&padt=200&padb=684&cs=0&cds=2&psm=0&gs_pcr=t&q=&cp=0&psi=bT_hbOjp8D8.1606856279097.0&ech=1&dpr=2.625&gs_pcr=1&xssi=t&getexp=1
```

#### Headers

```
x-client-data: asYMH4sIAAAAAAAAA...9384R7pHgwkAAA
cookie: NID=204=rTA6udKhrY26XSawV...lqf1DRaSlxk
```

The pre-installed Chrome app additionally generates the following connections:

```
POST https://accounts.google.com/ListAccounts?gpsia=1&source=ChromiumBrowser&json=standard
POST https://update.googleapis.com/service/update2/json?cup2key=10:3589622874&cup2hreq=2c693d6aa38b2...f0b683639
GET https://safebrowsing.googleapis.com/v4/threatListUpdates:fetch?$ct=application%2Fxml-protobuf&$req=ChQKB0dte0Nvc...EgAigB&key=AlzaSyBOOWI0hte3AhpCUZaoGoHa1yYR1d1fw
```

The pre-installed Google Docs and Messaging apps apparently generate the following connections:

```
POST https://growth-pa.googleapis.com/google.internal.identity.growth.v1.GrowthApiService/GetPromos
```

#### Headers

POST body decoded as protobuf:

```
<...>
```

```
4: "com.google.android.apps.docs"
5: "2.20.441.06.40"
```

```
<device details>
```

```
POST https://growth-pa.googleapis.com/google.internal.identity.growth.v1.GrowthApiService/GetPromos
```

POST body decoded as protobuf:

```
<...>
```

```
4: "com.google.android.apps.messaging"
5: "6.8.076 (Ent_RC11.phone_dynamic)"
```

```
<device details>
```

The following connection appears to send information relating to the WiFi network:

```
POST https://mobilenetworkscoring-pa.googleapis.com/v1/GetWifiQuality?key=AlzaSyBrlVt...ZldOeA6ThtVczU
```

#### Headers

```
X-Goog-Spatula: CjYKFmNvbS5nb29...s+CCz+wBKgA=
X-Client-Data:
```

```
CAESKQDyi0h83iGkBBkbXXjoA...I12LD6mQJTbHFzt4WT
```

```
+46DBeKN7TTiPXKePbcGbogPyr4kjVAySq68wLU6GW3Y27211"
```

Other connections include:

```
GET https://connectivitycheck.gstatic.com/generate_204
```

```
GET https://www.gstatic.com/cryptauthvault/v0/cert.xml
```

```
GET https://www.gstatic.com/cryptauthvault/v0/cert.sig.xml
```

When a sim is inserted into the handset the following connections are made which send to Google the sim IMEI, IMSI, operator and phone number and also the mobile carrier name, access point:

```
POST https://android.clients.google.com/fdfe/uploadDynamicConfig
```

#### Headers

```
user-agent: Android-Finsky/22.8.42-21%20%5B0%5D%20%5BPR%5D%20342741419 (api=3,versionCode=82284210, sdk=29, device=walleve, hardware=walleve, product=walleve, platformVersionRelease=10, model=Pixel%202, buildId=QP1A.190711.019, isWideScreen=0, supportedAbis=arm64-v8a;armeabi-v7a;armeabi)
```

```
x-dfe-device-id: 35ca6a89e6662742 Google AndroidId
```

```
x-dfe-device-config-token:
```

```
CisaKQoTMzg3NjAyN...NjA2ODUxNjY4MTQyMzMl
```

```
x-dfe-device-checkin-consistency-token:
```

```
ABFEt1VpT4kdL4uVNJ...fp37M5jZfokccuNOCnef2U7bDsS2p
```

```
x-dfe-phenotype: H4sIAAAAAAAAAAB3OS...5GM6OBYq3pz9D9cD-bQEAAA
```

```
x-dfe-encoded-targets: CAESGLOVgQbWBfMH2A...gORAcOe5ALQ+64G
```

POST body decoded as protobuf:

```
1 {
```

```
1: "GMT+00:00"
```

```
2 {
```

```
1 {
```

```
1: 272110103800000 sim IMSI, uniquely identifies caller on cellular network
```

```
2: "Tesco Mobile" Mobile carrier
```

```
3: "0AFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF" Mobile Group ID Level
```

```
1
```

```
4: "tescomobile.liffeytelecom.com" Mobile carrier APN
```

```
6: 2154
```

```
7: 18446744073709551615
```

```
}
```

```
}
```

```
4: "
```

```
dHVK05LRPfoS71S8ynLFp9:APA91bGObMGa...VY35D7araqXOTpK9e"
```

```
// Firebase id of Google Play store
```

```
app
```

```
}
```

```
POST https://android.googleapis.com/checkin
```

#### Headers

Cookie:

```
NID=204=PFjQqAtzoz5OkevrGAVPUUEMK...iEk92qleStExEeA
```

POST body decoded as protobuf:

```
2: 3876027569814251330 Google AndroidId
```

```
3: "1-ec4e132f413b59b876d584c41a67711ad16e36ca"
```

```
<device details>
```

```
2: 1606772181912
```

```
6: "27205" Mobile operator
```

```
7: "27211" sim operator
```

```
8: "WIFI:"
```

```
9: 0
```

```
14: 2
```

```
15 {
```

```
1: 5
```

```
2: 1
```

```
3: "unspecified"
```

```
4: ""
```

```
5: 0
```

```
}
```

```
16 {
```

```
1: "27211" sim operator
```

```
2: "Tesco Mobile" Mobile carrier
```

```
3: "0" Roaming, 0 or 1
```

```
4: 0 Device feature: voice
```

```
4: 1 Device feature: data
```

```
4: 2 Device feature: sms
```

```
6: "272110103800000" sim IMSI, uniquely identifies caller on cellular network
```

```
7: "0AFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF" Mobile Group ID Level
```

```
1
```

```
8: "\025\345" SHA-256 hash of sim IMSI
```

```
9: 2154
```

```
}
```

```
18: 1
```

```
19: "WIFI"
```

```
21: 2154
```

```
}
```

```
6 {
```

```
12: 0x53552d6e
```

```
}
```

```
9: "e60d4b46d158" Wifi MAC address
```

```
10: "357537080984248" sim IMEI
```

```
11: "" When user is logged in this reports the user email address
```

```
12: "Europe/Dublin"
```

```
13: 0x41559e6d59911873 Security token
```

```
14: 3
```

```
15: "bfMkwynjHzXGBpc2WT62otR8JkI="
```

```
16: "HTTAC1A04090" Handset hardware serial number
```

```
<software installed>
```

```
<hardware capabilities>
```

```
19: "wifi"
```

```
20: 0
```

```
22: 0
```

```
24: "CgYqtj3OocES-2UKBoGpQIpsRtlQQA...Sy6P2voE9Sz" Device key:
```

```
droidguard binary blob
```

```
26: 0
29: 0
30: 0
31: 0
<<<< HTTP 200, 164.21KB
```

POST https://play.googleapis.com/log/batch

Headers

```
x-server-token: CAESKQDyi0h8ELN...xxcHWUVYYKGoWA
user-agent: com.google.android.gms/204516037 (Linux; U; Android 10;
en_US; Pixel 2; Build/QP1A.190711.019; Cronet/85.0.4183.127)
cookie: NID=204=VBQLUjKJoc3FW...X-IC0Ro
```

POST body decoded as protobuf:

<...>

1: 3876027569814251330 AndroidId

<device details>

33: 18446744073709551615

<...>

```
5: "\324\020\010...(48.0.335972766--carrierservices_V48E_RC01
\032\010\340\203\273\022\6.8.076 (Ent_RC11.phone_dynamic)2C\010\003272\022\00211\032\014Tesco
```

Mobile\{"

```
0AFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF(\000\312\001
V\n$15ae83ce-d021-4a9a-9b41-c6a0dbb0221c
\020\013\032\006\022\004\010\002\020\001:$593bf4a8-1874-4255-8
da9-cf851cfba18a\320\001\002\330\001\002\362\001\036+353-
jON9NOoQZznuJ3NifvO2B742X\021x\0...1\016\022(48.0.335972766-
carrierservices_V48E_RC01\030\004\032\010\340\203\273\022
6.8.076 (Ent_RC11.phone_dynamic)\017\n\r+35389...7590r
/\010..."\230\001\001"
```

6: "CARRIER\_SERVICES"

7: "204=VBQLUjKJoc3FWJoecvEe...X-IC0Ro"

<other telemetry>

The +35389...7590 value is the handset phone number.

When the user is logged out and location is enabled no additional handset network connections are observed.

Entering the word "test" in the searchbar generates the following sequence of requests:

```
GET https://www.google.com/complete/search?oe=utf-8&safe=images&gcc
=ie&ctzn=Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram_mb
=3656&ar=0&inm=asst&hl=en-US&noj=1&client=qsbl-android-asbl-pb&
qsbl=1606854486792&devloc=0&padt=200&padb=684&cs=0&cds=2&
psm=0&q=&cp=0&psi=VjSryVYAIVE.1606854486794.2&ech=1&dpr
=2.625&gs_pcr=5&xssi=t
```

Headers

x-client-data: asUMH4sIA...CQAA

cookie: NID=204=rTA6udKhrY26XSavwV1...bxlqf1DRaSIxk

These headers are also repeated in the subsequent connections, one for each key press:

```
GET https://www.google.com/s?oe=utf-8&safe=images&gcc=ie&ctzn=
Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram_mb=3656&
q=t&tch=6&ar=0&inm=asst&hl=en-US&noj=1&client=ms-android-google
&qsbl=1606854489147&wf=pp1&devloc=0&padt=200&padb=684&cs
=0&cds=2&psm=0&pf=i&sc=qsbl-android-asbl-pb&cp=1&psi=
VjSryVYAIVE.1606854486794.2&ech=2&dpr=2.625&hsid=06696c56
```

```
GET https://www.google.com/s?oe=utf-8&safe=images&gcc=ie&ctzn=
Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram_mb=3656&
q=te&tch=6&ar=0&inm=asst&hl=en-US&noj=1&client=ms-android-
google&qsbl=1606854489975&wf=pp1&devloc=0&padt=200&padb
=684&cs=0&cds=2&psm=0&pf=i&sc=qsbl-android-asbl-pb&cp=2&psi
=VjSryVYAIVE.1606854486794.2&ech=3&dpr=2.625&hsid=06696c56
```

```
GET https://www.google.com/s?oe=utf-8&safe=images&gcc=ie&ctzn=
Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram_mb=3656&
q=tes&tch=6&ar=0&inm=asst&hl=en-US&noj=1&client=ms-android-
google&qsbl=1606854490982&wf=pp1&devloc=0&padt=200&padb
=684&cs=0&cds=2&psm=0&pf=i&sc=qsbl-android-asbl-pb&cp=3&psi
=VjSryVYAIVE.1606854486794.2&ech=4&dpr=2.625&hsid=06696c56
```

```
GET https://www.google.com/s?oe=utf-8&safe=images&gcc=ie&ctzn=
Europe%2FDublin&ctf=0&v=11.38.8.23.arm64&ntyp=1&ram_mb=3656&
q=test&tch=6&ar=0&inm=asst&hl=en-US&noj=1&client=ms-android-
google&qsbl=1606854491660&wf=pp1&devloc=0&padt=200&padb
=684&cs=0&cds=2&psm=0&pf=i&sc=qsbl-android-asbl-pb&cp=4&psi
=VjSryVYAIVE.1606854486794.2&ech=5&dpr=2.625&hsid=06696c56
```

## C. Connections When Interacting With Settings App

Summary:

- 1) The helptrc process makes connections to firebaseinstallations.googleapis.com and android.clients.google.com. These send the Firebase Id and the device Android Id.
- 2) A connection is made to pagead2.googleadsyndication.com that appears to send identifiers
- 3) Telemetry is sent to www.google.com/tools/feedback/mobile/escalation-options-post. This is tagged with the device Android Id, the sim IMEA and includes mobile carrier details as well as information on the radio signal strength, battery level, volume settings, number of handset reboots, whether the phone is rooted.

Connection details:

POST https://firebaseinstallations.googleapis.com/v1/projects/google.com:

google-help/installations

Headers

```
X-Android-Package: com.google.android.apps.helptrc
x-firebase-client: fire-installations/16.3.4_1p fire-core/19.2.0_1p fire-iid
/20.3.0 fire-fcm/20.1.7_1p fire-android/
{"fid":"dxg7hfTNT4Sg9MWTwg4EIp","appId":"1:1009060896380:android
:a7517ce0085a7435","authVersion":"FIS_v2","sdkVersion":"a:16.3.4_1p"}
```

POST https://android.clients.google.com/c2dm/register3

Headers

```
Authorization: AidLogin 3876027569814251330:4707843177977026675
app: com.google.android.apps.helptrc
User-Agent: Android-GCM/1.5 (walleey QP1A.190711.019)
X-subtype=1009060896380&sender=1009060896380&X-app_ver=988&X-
osv=29&X-cliv=fiid-20.3.0&X-gmsv=204516037&X-appid=
dxg7hfTNT4Sg9MWTwg4EIp&X-scope=*&X-Goog-Firebase-
Installations-Auth=eyJhbGciOiJIU...7Bc8&X-gmp_app_id=1%3
A1009060896380%3Aandroid%3Aa7517ce0085a7435&X-Firebase-Client=
fire-installations%2F16.3.4_1p+fire-core%2F19.2.0_1p+fire-iid%2F20.3.0+
fire-fcm%2F20.1.7_1p+fire-android%2F&X-firebase-app-name-hash=
R1dAH9U17M-ynoznbDw01LxhI&X-Firebase-Client-Log-Type=1&X-
app_ver_name=3.8.1&app=com.google.android.apps.helptrc&device=
3876027569814251330&app_ver=988&info=-
xTeoyqJEUQQKri541rkWVljs2xYRc&gcm_ver=204516037&plat=0&cert
=2914b664...c0928bf1&target_ver=29
```

```
GET https://pagead2.googleadsyndication.com/pagead/gen_204?id=gmob-apps
&action=ads_settings_page_view&device=Google%20Pixel%202&js
=204516037.204516000&os=10&api=29&eids=
318493186%2C318475418%2C318489659&appid=com.google.android.gms
```

POST https://www.google.com/tools/feedback/mobile/escalation-options-post?e=

POST body decoded as protobuf:

```
1 {
  1: "com.google.android.settings.intelligence"
  2: "1.1.0.254034946.storeRelease"
}
2 {
  1 {
    12: 0x53552d6e
  }
  2: "Pixel 2"
  3: "10"
  4: "Tesco Mobile"
  7: "walleey"
}
3 {
  3: "android_home"
  4: "1606852517646_8624383984708281235"
  5 {
    1: "noe_network_type"
```

```

2: "13"
}
5 {
1: "noe_decimal_gsf_id"
2: "3876027569814251330"
}
5 {
1: "noe_bad_reboots_last_day"
2: ""
}
5 {
1: "noe_battery_level"
2: "100"
}
5 {
1: "noe_good_reboots_last_week"
2: ""
}
5 {
1: "noe_battery_scale"
2: "100"
}
5 {
1: "noe_battery_stats"
2: ""
}
5 {
1: "noe_wear_version_code"
2: ""
}
5 {
1: "noe_wear_version_name"
2: ""
}
5 {
1: "noe_ringer_volume"
2: "5"
}
5 {
1: "gms:googlehelp:async_help_psd_collection_time_ms"
2: "0"
}
5 {
1: "noe_camera_version_code"
2: "61060551"
}
5 {
1: "noe_camera_version_name"
2: "7.4.201.322479879"
}
5 {
1: "noe_battery_anomaly_names"
2: ""
}
5 {
1: "noe_battery_anomaly_types"
2: ""
}
5 {
1: "noe_sim_state"
2: "5"
}
5 {
1: "noe_storage_available"
2: "52529065984"
}
5 {
1: "noe_good_reboots_last_day"
2: ""
}
5 {
1: "noe_update_url"
2: "https://ota.googlezip.net/packages/ota-api/google_walleye_walleye/
b4f5ad3168f13fc49103a99d497206c7dceb0491.zip"
}
5 {
1: "noe_security_patch"

```

```

2: "2019-09-05"
}
5 {
1: "noe_wifi_strength"
2: "-29"
}
5 {
1: "noe_ram_available"
2: "1987584000"
}
5 {
1: "noe_incremental"
2: "5790879"
}
5 {
1: "noe_battery_present"
2: "true"
}
5 {
1: "noe_usb_data_role"
2: "2"
}
5 {
1: "noe_timezone"
2: "Europe/Dublin"
}
5 {
1: "noe_ram_total"
2: "3834560512"
}
5 {
1: "noe_usb_functions"
2: "0"
}
5 {
1: "noe_cellular_radio_type"
2: "CellInfoWcdma"
}
5 {
1: "noe_google_play_services_version_code"
2: "204516037"
}
5 {
1: "noe_google_play_services_version_name"
2: "20.45.16 (120400-344294571)"
}
5 {
1: "noe_num_bluetooth_connections"
2: "0"
}
5 {
1: "noe_base_os"
2: ""
}
5 {
1: "noe_wifi_speed"
2: "72"
}
5 {
1: "noe_wifi_state"
2: "3"
}
5 {
1: "noe_product"
2: "walleye"
}
5 {
1: "noe_display_name"
2: "QP1A.190711.019"
}
5 {
1: "noe_screen_brightness_mode"
2: "1"
}
5 {
1: "noe_notification_max_volume"
2: "7"
}

```

```

}
5 {
  1: "noe_build_id"
  2: "QP1A.190711.019"
}
5 {
  1: "noe_ringer_max_volume"
  2: "7"
}
5 {
  1: "noe_battery_voltage"
  2: "4348"
}
5 {
  1: "noe_music_volume"
  2: "8"
}
5 {
  1: "noe_voice_call_volume"
  2: "5"
}
5 {
  1: "noe_preview_sdk_int"
  2: "0"
}
5 {
  1: "noe_gps_enabled"
  2: "false"
}
5 {
  1: "noe_codename"
  2: "REL"
}
5 {
  1: "noe_headset_attached"
  2: "false"
}
5 {
  1: "noe_wifi_security_key_valid"
  2: "true"
}
5 {
  1: "noe_display_timeout"
  2: "30000"
}
5 {
  1: "noe_telephony_stats_signal_flag"
  2: ""
}
5 {
  1: "noe_is_rooted"
  2: "true"
}
5 {
  1: "noe_dump_datetime"
  2: "2020-12-01 19:55:17"
}
5 {
  1: "noe_music_max_volume"
  2: "25"
}
5 {
  1: "noe_fingerprint"
  2: "google/walleye/walleye:10/QP1A.190711.019/5790879:user/release-
keys"
}
5 {
  1: "noe_voice_call_max_volume"
  2: "7"
}
5 {
  1: "noe_device_under_thirty"
  2: "1"
}
5 {
  1: "noe_cellular_strength"
  2: "4"
}
}
5 {
  1: "noe_storage_total"
  2: "55906295808"
}
5 {
  1: "noe_wifi_available"
  2: "true"
}
5 {
  1: "noe_alarm_max_volume"
  2: "7"
}
5 {
  1: "noe_bluetooth_enabled"
  2: "true"
}
5 {
  1: "noe_is_volte_available"
  2: "false"
}
5 {
  1: "noe_wifi_connected"
  2: "true"
}
5 {
  1: "noe_system_volume"
  2: "5"
}
5 {
  1: "noe_imei"
  2: "357537080984248"
}
5 {
  1: "noe_type"
  2: "user"
}
5 {
  1: "noe_google_app_version_code"
  2: "301117632"
}
5 {
  1: "noe_google_app_version_name"
  2: "11.38.8.23.arm64"
}
5 {
  1: "noe_board"
  2: "walleye"
}
5 {
  1: "noe_brand"
  2: "google"
}
5 {
  1: "noe_radio"
  2: "g8998-00012-1905270706"
}
5 {
  1: "noe_bad_reboots_last_week"
  2: ""
}
5 {
  1: "noe_cellular_dbm"
  2: "-77"
}
5 {
  1: "noe_brightness_level"
  2: "19"
}
5 {
  1: "noe_location_mode"
  2: "0"
}
5 {
  1: "noe_bootloader"
  2: "mw8998-002.0078.00"
}
}

```



```

5 {
  1: "noe_phone_type"
  2: "1"
}
5 {
  1: "noe_telephony_diagnostic_signal_flag"
  2: ""
}
5 {
  1: "noe_sdk_int"
  2: "29"
}
5 {
  1: "noe_battery_health"
  2: "2"
}
5 {
  1: "gms:googlehelp:sync_help_psd_collection_time_ms"
  2: "0"
}
5 {
  1: "noe_notification_volume"
  2: "5"
}
5 {
  1: "noe_network_operator"
  2: "Tesco Mobile"
}
5 {
  1: "genie-eng:app_pkg_name"
  2: "com.google.android.settings.intelligence"
}
5 {
  1: "noe_usb_power_role"
  2: "2"
}
5 {
  1: "noe_system_max_volume"
  2: "7"
}
5 {
  1: "noe_charging_status"
  2: "2"
}
5 {
  1: "noe_google_play_store_version_code"
  2: "82284210"
}
5 {
  1: "noe_google_play_store_version_name"
  2: "22.8.42-21 [0] [PR] 342741419"
}
5 {
  1: "noe_alarm_volume"
  2: "6"
}
5 {
  1: "noe_battery_status"
  2: "5"
}
12: 988
13: "3.8.1"
}
4: "help.mobile"
5: ""
6: 21

```