No.	Item	Information
1	Smartphone Brand :	SONY
2	Smartphone Model :	XQ-AT52
3	Smartphone Name :	Xperia 1 II
4	Operating System :	Android 10
5	Built-In Software of the Smartphone is as follows :	58.1.A.1.178

No	Publisher	App Name (Package Name)	Version	App Type	Data Layer		Communication Protocol Layer		Applications Layer			
					Accesses Sensitive Data Type	Supported Wireless Technologies	Need credential to logged in?	Terminate and Stay Resident?	Function Description	Declared Permission	Remote data server (IP/DN/Company title/connection type)	Listening ports
1	Google	Android Auto (com.google.andorid.projection.gearhead)	1.1.801650-stub	Factory Preloaded Software	Type 1	Mobile Network, WiFi, GPS	No		Simple UI for Driving mode	(1) Calendar: read calendar notification (2) Call log: rad call log data on drive mode UI (3) Contacts: read Contact information for in comming and out going call (4) Location: navigate via Google Map (5) Phone: pick up and make voice call (6) SMS: read received the SMS on drive mode UI (7) Microphone: record audio	NA (Google)	
2	Google	Calendar (com.google.android.calendar)	2020.44.1-340608778-release	Factory Preloaded Software	Type 1	Mobile Network, WiFi, GPS	Yes		Google Calendar app	(1) Calendar: read calendar events and details, add or modify calendar events and send emails to guests without owners' knowledge (2) Contacts: read your contacts	NA (Google)	
3	Sony Mobile	Camera (com.sonyericsson.android.camera)	2.6.1.A.0.10	Factory Preloaded Software	Type 2	Mobile Network, WiFi, GPS	No		Camera App	(1) Camera: take pictures and videos (2) Files and media: modify/delete contents in storage, read the contents in your storage such as picture or video file into memory and access the mdeia file for preview	NA (Google)	
4	Google	Chrome (com.android.chrome)	86.0.4210.198	Factory Preloaded Software	NA (Google)	Mobile Network, WiFi, GPS	Yes		Browser app	(1) Location: access approximate location (network-based), access precise location (GPS and network-based)	NA (Google)	NA (Google)
5	Sony Mobile	Cinema Pro (com.sonymobile.cinemapro)	1.3.1.A.0.13	Factory Preloaded Software	No	No	No		Professional movie recording app	(1) Camera: take pictures and videos (2) Microphone: record audio (3) File and media: modify/delete contents in storage, read the contents in your storage	Sony Mobile Data Platform	NA (Google)
6	Google	Clock (com.google.android.deskclock)	6.3.1 (325360271)	Factory Preloaded Software	NA (Google)	NA (Google)	No		Alarm & Clock	No permissions requested (1) Calendar: read calendar notification (2) Files and media: read the contents of your storage	NA (Google)	
7	Google	Contacts (com.sonymobile.android.contacts)	1.7.31	Factory Preloaded Software	Type 1	No Mobile Network, WiFi, Bluetooth	No		Contacts app	(1) Call logs: read call log (2) Contacts: read your contacts, modify your contacts, find accounts on the device (3) SMS: read your text messages (SMS or MMS) (4) Files and media: read the contents of your storage (5) Phone: directly call phone numbers, read phone status and identity	NA (Google)	NA (Google)
8	Google	Digital Wellbeing (com.google.android.apps.wellbeing)	1.0.334333145	Software without Icons	NA (Google)	NA (Google)	No		Digital Wellbeing	NA (Google) (1) 體能活動紀錄 (2) Location: access approximate location (network-based), access precise location (GPS and network-based) (3) Files and media: read the contents of your storage	NA (Google)	NA (Google)
9	Google	Drive (com.google.android.apps.docs)	2.20.441.05.45	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, WiFi	Yes		Google file storage and synchronization service	(1) Camera: take pictures and videos (2) Contacts: find accounts on the device, read your contacts (3) Files and media: read the contents in your storage, modify/delete contents in your storage	NA (Google)	NA (Google)
10	Google	Duo (com.google.android.apps.tachyon)	111.0.342864135.DR113_RC03	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network	Yes		Google video chat app	(1) Call logs: write call log (2) Camera: take pictures and videos (3) Contacts: read your contacts, modify your contacts, find accounts on the device (4) Microphone: record audio (5) Files and media: modify/delete SD card contents, read the contents of your SD card (6) Phone: read phone status and identity	NA (Google)	NA (3rd party app)
11	Sony Mobile	Dynamic Vibration (com.sonymobile.mediavibration)	1.0.0	Software without Icons	Type 3	No	No		Advanced Haptic feedback system	No permissions requested	Sony Mobile Data Platform	NA (Google)
12	Sony Mobile	External monitor (com.sonymobile.extmonitotapp)	1.1.A.0.6	Software without Icons	Type 3	No	No		Input the video and sound signal from external camera via wired	No permissions requested	Sony Mobile Data Platform	NA (Google)
13	Facebook	Facebook (com.facebook.katana)	stub (59.1.10)	Factory Preloaded Software	No Type 1	WiFi, Mobile Network	Yes		Social Networking Service	No permissions requested (1) Calendar: Add or modify calendar events and send emails to guests without owners' knowledge, Read calendar events and datails. (2) Camera: take pictures and videos (3) find a accounts on the devices, read your contacts, modify your contacts (4) Location: access approximate location (GPS and network-based), access precise location (GPS and network-based) (5) Microphone: record audio (6) Telephone: directly call phone numbers, read phone status and identity	NA (3rd party app)	NA (Google)
14	Google	Files (com.android.documentsui)	9	Factory Preloaded Software	NA (Google)	NA (Google)	No		File Manager app	No permissions requested	NA (Google)	NA (Google)
15	Sony Mobile	Game enhancer (com.sonymobile.gameenhancer)	4.1.A.0.30	Factory Preloaded Software	No	WiFi, Mobile Network	No		App to Enhance gaming experience	(1) Camera: take pictures and videos (2) Microphone: record audio (3) File and media: modify/delete, read the contents of your storage	No	
16	Google	Gboard (com.google.android.inputmethod.latin)	9.9.14.333092878-release-arm64-v...	Software without Icons	NA (Google)	NA (Google)	No		Keyboard app	(1) Camera: take pictures and videos (2) Contacts: find accounts on the device, read your contacts (3) Location: access approximate location (network-based) (4) Microphone: record audio (5) File and media: modify/delete, read the contents of your storage	NA (Google)	

#	Developer	App (package)	Version	Software type		Network			Description	Permissions		
17	Google	Gmail (com.google.android.gm)	2020.10.18.341076532.Release	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, WiFi	Yes		Gmail app	(1) Calendar: read calendar events and details, add or modify calendar events and send emails to guests without owners' knowledge (2) Contacts: find accounts on the device, read your contacts, modify your contacts (3) File and media: modify/delete, read the contents of your storage (4) Camera: take pictures and videos (5) Microphone: record audio (6) Phone: directly call phone numbers, read phone status and identity	NA (Google)	NA (Google)
18	Google	Google (com.google.android.googlequicksearchbox)	11.36.10.23.arm64	Factory Preloaded Software	NA (Google)	NA (Google) Mobile Network, WiFi	Yes		Google search app	(1) Calendar: read calendar events and details, add or modify calendar events and send emails to guests without owners' knowledge (2) Call log: read call log (3) Camera: take pictures and videos (4) Contacts: read your contacts, modify your contacts, find accounts on the device (5) Location: access approximate location (network-based), access precise location (GPS and network-based) (6) Microphone: record audio (7) SMS: read your text messages (SMS or MMS), send and view SMS messages (8) File and media: modify/delete, read the contents of your storage (9) Phone: directly call phone numbers, read phone status and identity (10) 體能活動紀錄	NA (Google)	NA (Google)
19	Google	Google One (com.google.android.apps.subscriptions.red)	1.79.339194938	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, WiFi	Yes		Google Network Drive Service	No permissions requested	NA (Google)	NA (Google)
20	Google	Google Pay (com.google.android.apps.walletnfcrel)	2.119.340301324	Factory Preloaded Software	NA (Google) Type 1	NA (Google)	Yes		Google Payment Service	(1) Location: access approximate location (GPS and network-based), access precise location (GPS and network-based) (2) Camera: take pictures and videos (3) Telephone: directly call phone numbers, read phone status and identity (4) Files and media: read the contents of your storage (5) Contacts: find accounts on the device, read your contacts	NA (Google)	
21	Google	Google Play Movies & TV (com.google.android.videos)	4.23.23.42	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, WiFi	Yes		Google Play Movies & TV	(1) Location: access approximate location (network-based) (2) File and media: modify/delete, read the contents of your storage	NA (Google)	NA (Google)
22	Google	Google Play services (com.google.android.gms)	20.42.17 (150408-342447392)	Factory Preloaded Software	NA (Google)	NA (Google)	Yes		Google service	(1) Body Sensor: access body sensor (like heart rate monitors) (2) Calendar: read calendar events and details (3) Call logs: reroute outgoing calls, read call log, write call log (4) Camera: take pictures and videos (5) Contacts: read your contacts, modify your contacts, find accounts on the device (6) Loation: access approximate location (network-based), access precise location (GPS and network-based), car speed (7) Microphone: record audio (8) SMS: receive text messages (SMS), receive text messages (MMS), read your text (9) Contacts: read your contacts	NA (Google)	NA (Google)
23	Google	Google Play Store (com.android.vending)	22.4.25-21 [0] [PR] 337959405	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, WiFi	Yes		Google Play Store	(1) Contacts: read your contacts (2) Loation: access approximate location (network-based) (3) SMS: send and view SMS messages, receive text messages (SMS), read your text messages (SMS or MMS) (4) File and media: modify/delete, read the contents of your storage (5) Telephone: read phone status and identity	NA (Google)	No
24	Google	Google Podcasts (com.google.android.apps.podcasts)	1.0.0.317583218	Factory Preloaded Software	Type 1	Mobile Network, WiFi	Yes		Google Podcasts Service	No permissions requested	NA (Google)	NA (3rd party app)
25	Google	Maps (com.google.android.apps.maps)	10.55.2	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, WiFi	Yes		Google Map app	(1) Camera: take pictures and videos (2) Contacts: read your contacts (3) Loation: access approximate location (network-based), access precise location (GPS and network-based), car speed (4) Microphone: record audio (5) SMS: send and view SMS messages (6) File and media: modify/delete, read the contents of your storage (7) 體能活動紀錄	NA (Google)	No
26	Google	Messages (com.google.android.apps.messaging)	6.8.076 (Ent_RC11.phone_dynamic)	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, Bluetooth	No		SMS & MMS app	(1) Camera: take pictures and videos (2) Contacts: read your contacts, modify your contacts (3) Loation: access approximate location (network-based), access precise location (GPS and network-based) (4) Microphone: record audio (5) SMS: read your text messages (SMS or MMS), receive text messages (SMS), receive text messages (MMS), send and view SMS messages, receive text messages (WAP)	NA (Google)	NA (Google)
27	Sony Mobile	Music (com.sonyericsson.music)	9.4.8.A.0.13	Factory Preloaded Software	Type 1	No	No		Music app	(1) File and media: modify/delete, read the contents of your storage	www.google-analytics.com Gracenote via Gracenote lib Crashlytics via Crashlytics lib www.googletagmanager.com Sony Mobile Data Platform Firebase via SDK	No
28	Netflix	Netflix (com.netflix.mediaclient)	1.0.0	Factory Preloaded Software	No Type 1	WiFi, Mobile Network	Yes		Video On Demand Service	(1) Microphone: record audio (2) Storage: modify/delete SD card contents, read the contents of your SD card (3) Telephone: read phone status and identity	NA (3rd party app)	No
29	Google	Phone (com.android.phone)	57.0.341875790	Factory Preloaded Software	Type 2	No	No		Phone / Dialer app	(1) Call log: read call log, write call log, reroute outgoing calls (2) Camera: take pictures and videos (3) Contacts: read your contacts, modify your contacts, find accounts on the device	No	No
30	Sony Mobile	Photography Pro (com.sonymobile.photopro)	1.1.1.A.0.10	Factory Preloaded Software	No	WiFi GPS (positioning service)	No		Advance Camera app	(1) Camera: take pictures and videos (2) File and media: modify/delete, read the contents of your storage	Sony Mobile Data Platform	No
31	Google	Photos (com.google.android.apps.photos)	5.19.0.342164060	Factory Preloaded Software	NA (Google)	NA (Google)	Yes		Google Photos app	(1) Contacts: read your contacts, modify your contacts, find accounts on the device (2) Loation: access approximate location (network-based), access precise location (GPS and network-based) (3) File and media: modify/delete, read the contents of your storage (4) Phone: read phone status and identity	NA (Google)	No
32	Sony Mobile	Settings (com.sonyericsson.settings / com.android.settings)	11	Factory Preloaded Software	No	WiFi GPS (positioning service) Bluetooth	No		System Settings app	No permissions requested (1) Loation: access precise location (GPS and network-based) (2) Camera: take pictures and videos	Sony Mobile Data Platform 117.18.232.187	
33	Sony Mobile	Side sense (com.sonymobile.sidesenseapp)	4.0.A.0.18	Software without Icons	No	No	No		UI for one hand operation	No permissions requested (1) Phone: read phone status and identity	Sony Mobile Data Platform	No
34	Google	SIM Toolkit (com.android.stk)	11	Software without Icons	Type 1	WiFi Mobile Network	No		STK app	No permissions requested	No	NA (Google)
35	Sony Mobile	Style Cover (com.sonymobile.coverapp2)	2.0.0	Software without Icons	No	No	No		Smartcover app	No permissions requested (1) Phone: read phone status and identity	No	NA (Google)

36	Sony Mobile	Support (com.sonymobile.support)	4.11.6	Factory Preloaded Software	Type 2	GPS, WiFi, Bluetooth, Mobile Network, NFC	No		CS app	(1) Camera: take pictures and videos (2) Contacts: modify your contacts, find accounts on the device (3) Loation: access precise location (GPS and network-based) (4) Microphone: record audio (5) Storage: read the contents of your SD card, modify/delete SD card contents (6) Telephone: read phone status and identity	https://ids.indevice.sonymobile.com/ https://xd.sonymobile.com/ https://play.google.com/store/details https://sonymobile.com https://survey-ng.indevice.sonymobile.com https://api.indevice.sonymobile.com https://wtih.indevice.sonymobile.com https://contact.indevice.sonymobile.com https://skipper.indevice.sonymobile.com
37	Google	Wireless Emergency Alerts (com.google.android.cellbroadcastreceiver)	R-initial	Software without Icons	No	No	No		PWS App	(1) Telephone: read phone status and identity (2) SMS: receive text messages (SMS), receive text messages (MMS), read your text messages (SMS or MMS), send and view SMS messages	NA (Google)
38	Sony Mobile	Xperia Home (com.sonymobile.launcher)	11	Software without Icons	No	No	No		Home screen launcher app	(1) Storage: read the contents of your SD card, modify/delete SD card contents (2) Telephone: directly call phone numbers, read phone status and identity	Sony Mobile Data Platform
39	Google	YouTube (com.google.android.youtube)	15.46.38	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, WiFi	Yes		YouTube video playback app	(1) Camera: take pictures and videos (2) Contacts: find accounts on the device, read your contacts (3) Location: access approximate location (network-based), access precise location (GPS and network-based) (4) Microphone: record audio (5) Storage: modify/delete SD card contents, read the contents of your SD card (6) Telephone: read phone status and identity	NA (Google)
40	Google	YouTube Music (com.google.android.apps.youtube.music)	4.03.51	Factory Preloaded Software	NA (Google) Type 1	NA (Google) Mobile Network, WiFi	Yes		YouTube music playback app	(1) Camera: take pictures and videos (2) Contacts: find accounts on the device, read your contacts (3) Location: access approximate location (network-based), access precise location (GPS and network-based) (4) Microphone: record audio (5) Storage: modify/delete SD card contents, read the contents of your SD card (6) Telephone: read phone status and identity	NA (Google)

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