

## Galaxy S10e LTE(G970U) Application List

| Application                  | Package                                    | Version                              |
|------------------------------|--------------------------------------------|--------------------------------------|
| Android System               | android                                    | 11                                   |
| com.vzw.apnlib               | com.vzw.apnlib                             | 13.6                                 |
| Storage Manager              | com.android.storagemanager                 | 11                                   |
| com.android.wallpapercropper | com.android.wallpapercropper               | 11                                   |
| System UI                    | com.android.systemui                       | 11                                   |
| Market Feedback Agent        | com.google.android.feedback                | 11-6684105                           |
| Google One Time Init         | com.google.android.onetimeinitializer      | 11-6684105                           |
| Wireless emergency alerts    | com.android.cellbroadcastreceiver          | 11                                   |
| com.android.carrierconfig    | com.android.carrierconfig                  | 1.0.0                                |
| Google Services Framework    | com.google.android.gsf                     | 11-6684105                           |
| Android Setup                | com.google.android.setupwizard             | 230.329243634                        |
| Emergency information        | com.android.emergency                      | 11                                   |
| com.qualcomm.atfwd           | com.qualcomm.atfwd                         | 11                                   |
| Lookout                      | com.lookout                                | 10.35.1-70990ac                      |
| metroZONE                    | com.metropcs.metrozone                     | 70.0.48                              |
| MyMetro                      | com.nuance.nmc.sihome.metropcs             | myMetro_560022                       |
| Voicemail                    | com.coremobility.app.vnotes                | T.9.1.0.23                           |
| Lookout                      | com.lookout                                | 10.35.1-70990ac                      |
| Carrier Hub                  | com.sprint.ms.smf.services                 | 5.9.6                                |
| Chameleon                    | com.samsung.sprint.chameleon               | 4.1.1                                |
| Carrier Device Manager       | com.sprint.ms.cdm                          | 1.7.3                                |
| My Sprint Launcher           | com.sprint.zone                            | 7.0.8                                |
| Mobile Installer             | com.sprint.ce.updater                      | 10.6.00                              |
| MCM Client                   | com.sprint.w.installer                     | 6.0.25-Release                       |
| SAE                          | com.sec.sprextension                       | 1.5.5                                |
| Call Screener                | com.sprint.ecid                            | 10.2.7 2020-02-13 924e122fdc@924e122 |
| Call Guardian                | com.uscc.ecid                              | 9.9.0 2020-09-23 r519039c7b7@519039c |
| Mobile Services Manager      | com.LogiaGroup.LogiaDeck                   | 7.0.107-5313                         |
| Voicemail                    | com.samsung.vvm.se                         | 3.3.04                               |
| Advanced Calling             | com.samsung.advancedcalling                | 1.1.00.7                             |
| Retail Demo Mode             | com.customermobile.preload.vzw             | Retail Demo Mode                     |
| Verizon App Manager          | com.LogiaGroup.LogiaDeck                   | 6.4.147-5190                         |
| One Talk Dialer              | com.verizon.onetalk.dialer                 | 1.0.22                               |
| LLKAgent                     | com.verizon.llkagent                       | 3.0.02                               |
| Unified Settings             | com.samsung.unifiedsettingservice          | 5.0.0                                |
| My Verizon                   | com.vzw.hss.myverizon                      | 15.3.1                               |
| Digital Secure               | com.securityandprivacy.android.verizon.vms | 1.0.8                                |
| My Verizon Services          | com.verizon.mips.services                  | 1.0.144.2                            |
| Hux Extension                | com.samsung.huxextension                   | 11.0.12                              |
| VzwApiService                | com.samsung.vzwapiservice                  | 1.0                                  |
| Verizon Location Agent       | com.telecomsys.directedsms.android.SCG     | 0.0.4.407                            |
| Call Filter                  | com.vzw.ecid                               | 3.8.0                                |
| Voicemail                    | com.samsung.vvm                            | 3.0.32                               |
| Mobile Services Manager      | com.dti.att                                | 7.0.107-5314                         |
| ATT Security Services        | com.att.csoiam.mobilekey                   | 1.0.6                                |
| Mobile Network Diagnostics   | com.att.iqi                                | 7.0.5                                |
| AT&T Remote Support          | net.aetherpal.device                       | 2.04.1103.283                        |
| AT&T Mobile Security         | com.att.mobilesecurity                     | 5.5.1-d2044a3                        |

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|--------------------------------------------|---------------------------------------------|--------------------------|
| Call Protect                               | com.att.callprotect                         | 3.10.2-2135              |
| Setup & Transfer                           | com.synchronoss.dcs.att.r2g                 | 3.0.0.130-release        |
| Device Help                                | com.att.dh                                  | 3.58.0                   |
| myAT&T                                     | com.att.myWireless                          | 6.7.1                    |
| Visual Voicemail                           | com.samsung.attvvm                          | 13.2.00.0                |
| CNN                                        | com.cnn.mobile.android.phone                | 5.20.att                 |
| QoSIndicator                               | com.samsung.qosindicator                    | 1.1.08                   |
| Bleacher Report                            | com.bleacherreport.android.teamstream       | 1.0                      |
| AT&T TV                                    | com.att.tv                                  | 3.0.0.05156              |
| GOT: Conquest                              | com.wb.goog.got.conquest                    | 2.10.249000              |
| AT&T Smart Wi-Fi                           | com.att.android.attsmartwifi                | 3.0                      |
| Voicemail                                  | com.samsung.vvm.se                          | 3.3.04                   |
| Spectrum Connectivity Services             | com.spectrum.cm.headless                    | 3.2.3 (2.0.5 3.0.3) REL  |
| T-Mobile                                   | com.tmobile.pr.mymobile                     | 7.29.3.20112512          |
| ANT Radio Service                          | com.dsi.ant.service.socket                  | 4.15.20                  |
| AlwaysOnDisplay                            | com.samsung.android.app.aodservice          | 6.1.63                   |
| AR Emoji                                   | com.samsung.android.emoji                   | 5.0.00.24                |
| Accessibility                              | com.samsung.accessibility                   | 12.0.00.61               |
| T-Mobile                                   | com.tmobile.pr.adapt                        | 3.37.0                   |
| Android Auto                               | com.google.android.projection.gearhead      | 1.1.801650-stub          |
| Apps                                       | com.samsung.android.app.appsedge            | 7.0.43.0                 |
| Authentication Framework                   | com.samsung.android.authfw                  | 2.6.00.6                 |
| AutoDoodle                                 | com.sec.android.autodoodle.service          | 2.9.11.32                |
| com.android.backupconfirm                  | com.android.backupconfirm                   | 11                       |
| BadgeProvider                              | com.sec.android.provider.badge              | 2.1.00.9                 |
| SmartThings                                | com.samsung.android.beaconmanager           | 10.1.01.11               |
| Face                                       | com.samsung.android.bio.face.service        | 1.0                      |
| com.samsung.android.biometrics.app.setting | com.samsung.android.biometrics.app.setting  | 1.0.0                    |
| Bixby Voice                                | com.samsung.android.bixby.agent             | 3.0.35.48                |
| Bixby Voice Stub                           | com.samsung.android.bixby.agent.dummy       | 1.0.03.0                 |
| Bixby Dictation                            | com.samsung.android.bixby.service           | 3.0.00.7                 |
| Blocked Numbers Storage                    | com.android.providers.blockednumber         | 11                       |
| Blue light filter                          | com.samsung.android.bluelightfilter         | 4.0.0                    |
| Default Print Service                      | com.android.bips                            | 11                       |
| CIDManager                                 | com.samsung.android.cidmanager              | 11                       |
| CMFA Framework                             | com.samsung.android.cmfa.framework          | 1.0.00.18                |
| CMHProvider                                | com.samsung.cmh                             | 6.0.54                   |
| CSC                                        | com.samsung.sec.android.application.csc     | 1.0.1.0                  |
| CallBGProvider                             | com.samsung.android.callbgprovider          | 12.0.00.26               |
| Call Log Backup/Restore                    | com.android.calllogbackup                   | 11                       |
| Google Wi-Fi Provisioner                   | com.google.android.apps.carrier.carrierwifi | 1.2.345084952            |
| CDFS MODE Launcher                         | com.sec.android.Cdfs                        | 5.0.01                   |
| Cell Broadcast Service                     | com.android.cellbroadcastservice            | 11                       |
| ClipboardSaveService                       | com.samsung.clipboardsaveservice            | 2.0                      |
| Edge panels                                | com.samsung.android.app.cocktailbarservice  | 7.0.43.0                 |
| ConfigUpdater                              | com.google.android.configupdater            | 11-6684105               |
| Work profile                               | com.samsung.android.knox.containeragent     | 2.7.05001015             |
| com.android.cts.priv.ctsshim               | com.android.cts.priv.ctsshim                | 11-6508977               |
| D-MAT                                      | com.verizon.obdm                            | 2.0.0                    |
| DeX for PC                                 | com.sec.android.app.dexonpc                 | 1.4.00.16                |
| Samsung DeX                                | com.sec.android.desktopmode.uiservice       | 3.9.21.4                 |
| DeviceKeystore                             | com.sec.android.app.factorykeystore         | 11                       |
| Device Personalization Services            | com.google.android.as                       | R.3.sysimg.oem.325908743 |

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|-------------------------------------------|-------------------------------------------|----------------------------------|
| DQA                                       | com.samsung.android.dqagent               | 2.0.11                           |
| DeviceTest                                | com.sec.factory                           | 11                               |
| DiagMonAgent                              | com.sec.android.diagmonagent              | 7.0.05                           |
| Samsung Digital Key                       | com.samsung.android.digitalkey            | 1.0.00.25                        |
| Digital Wellbeing                         | com.samsung.android.forest                | 2.0.00.51                        |
| com.google.android.documentsui            | com.google.android.documentsui            |                                  |
| com.google.android.documentsui            | com.google.android.documentsui            |                                  |
| com.google.android.documentsui            | com.google.android.documentsui            |                                  |
| Files                                     | com.google.android.documentsui            | r_aml_300900741                  |
| com.google.android.documentsui            | com.google.android.documentsui            |                                  |
| com.google.android.documentsui            | com.google.android.documentsui            |                                  |
| com.google.android.documentsui            | com.google.android.documentsui            |                                  |
| com.google.android.documentsui            | com.google.android.documentsui            |                                  |
| Downloads                                 | com.android.providers.downloads.ui        | 11                               |
| Wallpapers                                | com.samsung.android.app.dressroom         | 1.3.64                           |
| Live focus                                | com.samsung.android.app.dofviewer         | 6.0.24                           |
| Wallpaper services                        | com.samsung.android.dynamiclock           | 3.3.01.17                        |
| Dynamic System Updates                    | com.android.dynsystem                     | 11                               |
| Nearby device scanning                    | com.samsung.android.easyssetup            | 11.0.15.0                        |
| com.samsung.android.knox.attestation      | com.samsung.android.knox.attestation      | 1.2.00.22                        |
| com.sec.epdg                              | com.sec.epdg                              | 11                               |
| External Storage                          | com.android.externalstorage               | 11                               |
| Facebook App Installer                    | com.facebook.system                       | 59.1.10                          |
| Facebook Services                         | com.facebook.services                     | 54.0.12                          |
| FaceService                               | com.samsung.faceservice                   | 4.3.05                           |
| Secure Wi-Fi                              | com.samsung.android.fast                  | 6.5.00.3                         |
| Finder                                    | com.samsung.android.app.galaxyfinder      | 9.6.28.0                         |
| Find My Mobile                            | com.samsung.android.fmm                   | 7.2.09.7                         |
| Software update                           | com.wssyncml dm                           | 3.7.11                           |
| Fused Location                            | com.android.location.fused                | 11                               |
| Galaxy Essentials Widget                  | com.sec.android.widgetapp.samsungapps     | 1.7.13.2                         |
| Galaxy Store                              | com.sec.android.app.samsungapps           | 4.5.22.8                         |
| Samsung SM8150 GameDriver                 | com.samsung.gamedriver.sm8150             | 11.0.00.0                        |
| Game Launcher                             | com.samsung.android.game.gamehome         | 4.3.03.5                         |
| Game Optimizing Service                   | com.samsung.android.game.gos              | 3.4.00.32                        |
| Game Booster                              | com.samsung.android.game.gametools        | 3.0.00.18                        |
| Gear VR Service                           | com.samsung.android.hmt.vrsvc             | 3.2.06.17                        |
| Google Play services                      | com.google.android.gms                    | 20.33.15 (150408-330018294)      |
| com.google.android.gms.policy_sidecar_aps | com.google.android.gms.policy_sidecar_aps | 200475003010.298822850.298822850 |
| Package installer                         | com.google.android.packageinstaller       | 11-6684105                       |
| Google Partner Setup                      | com.google.android.partnersetup           | 100.327071041                    |
| Android Setup                             | com.google.android.apps.restore           | 1.0.334154002                    |
| GPUWatch                                  | com.samsung.gpuwatchapp                   | 2.0.40                           |
| Hancom Office Editor                      | com.hancom.office.editor.hidden           | 7.0.200506                       |
| HdmApp                                    | com.samsung.android.hdmapp                | 1.0.00.10                        |
| Adapt Sound                               | com.sec.hearingadjust                     | 11.0.23                          |
| IOTHiddenMenu                             | com.sec.hiddenmenu                        | 11                               |
| Google Assistant                          | com.android.hotwordenrollment.okgoogle    | 11                               |
| Google Assistant                          | com.android.hotwordenrollment.xgoogle     | 11                               |
| com.samsung.huxplatform                   | com.samsung.huxplatform                   | 1.0.0                            |
| HwModuleTest                              | com.sec.android.app.hwmoduletest          | 11                               |
| IPService                                 | com.samsung.ipservice                     | 4.0.38                           |
| ImsLogger                                 | com.sec.imslogger                         | 1.20200801                       |

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|--------------------------------------------------|--------------------------------------------------|------------------|
| Input Devices                                    | com.android.inputdevices                         | 11               |
| SmartFPSAdjuster                                 | com.sec.android.smartfpsadjuster                 | 11               |
| Samsung Visit In                                 | com.samsung.android.ipsgeofence                  | 4.1.02.122       |
| KLMS Agent                                       | com.samsung.klmsagent                            | 3.4.20411        |
| Work profile                                     | com.samsung.android.knox.containercore           | 1.0              |
| Samsung DeX Home                                 | com.sec.android.app.desktoplauncher              | 3.0.03.44        |
| Device Services                                  | com.samsung.android.kgclient                     | 2.2.70           |
| Knox Key Chain                                   | com.samsung.knox.keychain                        | 11               |
| KnoxPushManager                                  | com.samsung.android.knox.pushmanager             | 1.1.00.35        |
| com.test.LTEfunctionality                        | com.test.LTEfunctionality                        | 1.0              |
| LED Cover                                        | com.samsung.android.app.ledbackcover             | 1.0.97           |
| LED Cover Service                                | com.sec.android.cover.ledcover                   | 1.4.71           |
| Link to Windows Service                          | com.samsung.android.mdx                          | 2.1.07.4         |
| DECO PIC                                         | com.samsung.android.livestickers                 | 2.0.00.18        |
| Live Wallpaper Picker                            | com.android.wallpaper.livepicker                 | 11               |
| com.android.localtransport                       | com.android.localtransport                       | 11               |
| Carrier Login Engine                             | com.verizon.loginengine.unbranded                | 4.7.4.0          |
| Work Setup                                       | com.android.managedprovisioning                  | 11               |
| Samsung Galaxy Friends                           | com.samsung.android.mateagent                    | 2.1.21.2         |
| mlp                                              | com.samsung.mlp                                  | 5.0.04           |
| com.android.providers.media                      | com.android.providers.media                      | 11               |
| MmsService                                       | com.android.mms.service                          | 11               |
| MobileWips                                       | com.samsung.android.server.wifi.mobilewips       | 1.1.19.0         |
| Service mode RIL                                 | com.sec.android.RilServiceModeApp                | 11               |
| MTP application                                  | com.samsung.android.MtpApplication               | 1.0              |
| MTP Host                                         | com.android.mtp                                  | 11               |
| Separate app sound                               | com.samsung.android.setting.multisound           | 3.0.00.11        |
| Default                                          | com.samsung.android.beyond.p00.wallpapermulti    | 1.0.0.0          |
| NSDSWebApp                                       | com.sec.vsim.ericssonnsds.webapp                 | 2.0.06.0         |
| Samsung Location SDK                             | com.sec.location.nsflp2                          | 5.3.45           |
| NetworkDiagnostic                                | com.samsung.android.networkdiagnostic            | 2.5.05.3         |
| com.google.android.networkstack.permissionconfig | com.google.android.networkstack.permissionconfig |                  |
| com.google.android.networkstack.permissionconfig | com.google.android.networkstack.permissionconfig |                  |
| com.google.android.networkstack.permissionconfig | com.google.android.networkstack.permissionconfig |                  |
| com.google.android.networkstack.permissionconfig | com.google.android.networkstack.permissionconfig |                  |
| com.google.android.networkstack.permissionconfig | com.google.android.networkstack.permissionconfig |                  |
| com.google.android.networkstack.permissionconfig | com.google.android.networkstack.permissionconfig | r_aml_300900722  |
| com.google.android.networkstack.permissionconfig | com.google.android.networkstack.permissionconfig |                  |
| com.google.android.networkstack.permissionconfig | com.google.android.networkstack.permissionconfig |                  |
| com.google.android.networkstack                  | com.google.android.networkstack                  |                  |
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| com.google.android.networkstack                  | com.google.android.networkstack                  |                  |
| com.google.android.networkstack                  | com.google.android.networkstack                  |                  |
| com.google.android.networkstack                  | com.google.android.networkstack                  |                  |
| Network manager                                  | com.google.android.networkstack                  | r_aml_300900700  |
| com.google.android.networkstack                  | com.google.android.networkstack                  |                  |
| com.verizon.obdm_permissions                     | com.verizon.obdm_permissions                     | 1.0.7            |
| Configuration update                             | com.samsung.android.app.omcagent                 | 5.3.22           |
| com.android.ons                                  | com.android.ons                                  | 11               |
| Office Mobile                                    | com.microsoft.office.officehubhl                 | 16.0.11126.20206 |
| Configuration message                            | com.wsomacp                                      | 7.4.07           |

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| OMADM                                 | com.sec.omadmspr                         | 5.3                           |
| Samsung PaymentFramework              | com.samsung.android.spayfw               | 2.9.04                        |
| People edge                           | com.samsung.android.service.peoplestripe | 12.0.00.14                    |
| RilNotifier                           | com.sec.app.RilErrorNotifier             | 1.0.0                         |
| Google Play Store                     | com.android.vending                      | 22.1.18-21 [0] [PR] 334276832 |
| Photo Editor                          | com.sec.android.mimage.photoretouching   | 2.9.11.35                     |
| Application installer                 | com.sec.android.preloadinstaller         | 11                            |
| ProxyHandler                          | com.android.proxyhandler                 | 11                            |
| VZW_Multicast_MW                      | com.qualcomm.ltebc_vzw                   | MSDC_LA_4.3.02.02.0           |
| Media and devices                     | com.samsung.android.mdx.quickboard       | 2.0.12.482                    |
| Bixby Routines                        | com.samsung.android.app.routines         | 3.0.45                        |
| Customization Service                 | com.samsung.android.rubin.app            | 2.8.00.14                     |
| SCameraService                        | com.samsung.android.camerasdkservice     | 1.1                           |
| SCameraXService                       | com.samsung.android.cameraxservice       | 1.1                           |
| Configuration update                  | com.samsung.android.sdm.config           | 3.0.08                        |
| SEMFactoryApp                         | com.sem.factoryapp                       | 1.0.00.41                     |
| SKMSAgentService                      | com.skms.android.agent                   | 1.0.40-48                     |
| Software update                       | com.sec.android.soagent                  | 6.0.08                        |
| Samsung Push Service                  | com.sec.spp.push                         | 3.3.06                        |
| SVC Agent                             | com.samsung.android.svcagent             | 5.0.00.11                     |
| Samsung voice input                   | com.samsung.android.svoiceime            | 2.3.01.1                      |
| Samsung account                       | com.osp.app.signin                       | 12.0.00.29                    |
| Samsung Checkout                      | com.sec.android.app.billing              | 5.0.30.0                      |
| Calendar Storage                      | com.android.providers.calendar           | 12.0.00.3                     |
| Camera                                | com.sec.android.app.camera               | 11.0.01.16                    |
| Samsung Cloud                         | com.samsung.android.scloud               | 4.6.01.2                      |
| Contacts                              | com.samsung.android.app.contacts         | 12.1.02.20                    |
| Contacts Storage                      | com.samsung.android.providers.contacts   | 12.5.04                       |
| Samsung Core Services                 | com.samsung.android.scs                  | 1.0.00.41                     |
| Samsung Device Health Manager Service | com.sec.android.sdhms                    | 11                            |
| Phone                                 | com.samsung.android.dialer               | 12.1.02.20                    |
| Samsung Experience Svc                | com.samsung.android.mobileservice        | 12.0.00.29                    |
| Gallery                               | com.sec.android.gallery3d                | 12.0.00.51                    |
| Call                                  | com.samsung.android.incallui             | 12.0.01.51                    |
| Magnifier                             | com.sec.android.app.magnifier            | 10.0.60                       |
| Messages                              | com.samsung.android.messaging            | 12.1.10.9                     |
| Samsung Multi Connectivity            | com.samsung.android.mcfserver            | 1.0.02.85                     |
| Samsung Pass                          | com.samsung.android.samsungpass          | 2.6.00.38                     |
| SamsungPositioning                    | com.samsung.android.samsungpositioning   | 3.1.01.6                      |
| SamsungSmartSuggestions               | com.samsung.android.smartsuggestions     | 11                            |
| What                                  | com.samsung.android.app.social           | 12.0.00.4                     |
| Time Zone Updater                     | com.samsung.android.timezone.updater     | 1.0.00.00000                  |
| Video Player                          | com.samsung.android.video                | 7.3.10.35                     |
| Separated Apps                        | com.samsung.android.appseparation        | 1.0.01.35                     |
| Configuration update                  | com.samsung.android.providers.carrier    | 1.0.27                        |
| Download Manager                      | com.android.providers.downloads          | 11                            |
| Email                                 | com.samsung.android.email.provider       | 6.1.30.30                     |
| Sec Media Storage                     | com.samsung.android.providers.media      | 11                            |
| My Files                              | com.sec.android.app.myfiles              | 12.0.00.505                   |
| Settings                              | com.android.settings                     | 11                            |
| Settings Suggestions                  | com.android.settings.intelligence        | 11                            |
| Samsung SetupWizard                   | com.sec.android.app.SecSetupWizard       | 3.0.23.1                      |
| SecSoundPicker                        | com.samsung.android.secsoundpicker       | 1.0.00.22                     |

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| Dialer Storage                           | com.android.providers.telephony                           | 11                       |
| Secure Folder                            | com.samsung.knox.securefolder                             | 1.6.01.50                |
| Send SOS messages                        | com.sec.android.app.safetyassurance                       | 12.0.00.45               |
| SettingsBixby                            | com.samsung.android.app.settings.bixby                    | 3.0.20                   |
| Settings Storage                         | com.android.providers.settings                            | 11                       |
| Settings                                 | com.samsung.android.SettingsReceiver                      | 11                       |
| Setup Wizard                             | com.sec.android.app.setupwizard                           | 11.0.34                  |
| Quick Share                              | com.samsung.android.app.sharelive                         | 12.0.00.23               |
| com.android.sharedstoragebackup          | com.android.sharedstoragebackup                           | 11                       |
| Shell                                    | com.android.shell                                         | 11                       |
| Single Take                              | com.samsung.android.singletake.service                    | 2.0.00.25                |
| Smart Call                               | com.samsung.android.smartcallprovider                     | 12.0.00.20               |
| EpdgTestApp                              | com.sec.epdgtestapp                                       | 11                       |
| Device care                              | com.samsung.android.lool                                  | 12.0.00.42               |
| com.samsung.android.smartswitchassistant | com.samsung.android.smartswitchassistant                  | 2.0.01                   |
| SoundAlive                               | com.sec.android.app.soundalive                            | 9.5.18                   |
| Network unlock                           | com.samsung.ssu                                           | 1.2.74                   |
| Intent Filter Verification Service       | com.android.statementservice                              | 1.0                      |
| Crocro and friends                       | com.samsung.android.app.camera.sticker.faceavatar.preload | 3.0.11                   |
| StoryService                             | com.samsung.storyservice                                  | 4.0.32                   |
| SystemUIBixby2                           | com.samsung.systemui.bixby2                               | 1.4.01.1                 |
| Samsung DeX System UI                    | com.samsung.desktopsystemui                               | 11                       |
| TADownloader                             | com.samsung.android.tadownloader                          | 1.2.04                   |
| AuthFw TaPack                            | com.samsung.android.tapack.authfw                         | 1.0.31.0                 |
| Tags                                     | com.android.apps.tag                                      | 4.3.00                   |
| TalkBack                                 | com.samsung.android.accessibility.talkback                | 12.0.00.23               |
| Tasks                                    | com.samsung.android.app.taskedge                          | 4.2.25                   |
| Phone Services                           | com.android.phone                                         | 11                       |
| Phone                                    | com.android.server.telecom                                | 11                       |
| Call settings                            | com.samsung.android.app.telephonyui                       | 12.0.01.35               |
| Galaxy Themes Service                    | com.samsung.android.themecenter                           | 11.0.0.0                 |
| Galaxy Themes                            | com.samsung.android.themestore                            | 5.2.00.1215              |
| Samsung Time Zone Data                   | com.samsung.android.timezone.data_R                       | 1.0.02.3                 |
| Tips                                     | com.samsung.android.app.tips                              | 3.0.26.0                 |
| One UI Home                              | com.sec.android.app.launcher                              | 12.0.00.169              |
| Device Health Services                   | com.google.android.apps.turbo                             | 1.15.0.311380394.release |
| Tethering Provision                      | com.samsung.unifiedtp                                     | 1.0.07.2                 |
| Network Configuration                    | com.samsung.usbyod                                        | 11.0.00                  |
| User Dictionary                          | com.android.providers.userdictionary                      | 11                       |
| VZWAPN                                   | com.vzw.apnservice                                        | 18.3                     |
| Google                                   | com.google.android.googlequicksearchbox                   | 11.30.9.21.arm64         |
| VpnDialogs                               | com.android.vpndialogs                                    | 11                       |
| Cloud                                    | com.vcast.mediamanager                                    | 20.7.15                  |
| Your Phone Companion                     | com.microsoft.appmanager                                  | 0.0.7                    |
| IMS Service                              | com.sec.imsservice                                        | 1.0                      |
| Knox Analytics Uploader                  | com.samsung.android.knox.analytics.uploader               | 1.2.01.1                 |
| KnoxVpnPacProcessor                      | com.knox.vpn.proxyhandler                                 | 11                       |
| ringtonebackup                           | com.sec.android.app.ringtoneBR                            | 1.0.00.4                 |
| Service mode                             | com.sec.android.app.servicemodeapp                        | 11                       |
| SmartFaceService                         | com.samsung.android.smartface                             | 1.0                      |
| com.samsung.android.wallpaper.res        | com.samsung.android.wallpaper.res                         | 11                       |
| Software Update                          | com.ws.dm                                                 | 4.5.17                   |
| Media Storage                            | com.android.providers.media.module                        | 11                       |

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|-----------------------------------------|-------------------------------------------------|---------------------|
| com.google.android.permissioncontroller | com.google.android.permissioncontroller         |                     |
| com.google.android.permissioncontroller | com.google.android.permissioncontroller         |                     |
| com.google.android.permissioncontroller | com.google.android.permissioncontroller         |                     |
| com.google.android.permissioncontroller | com.google.android.permissioncontroller         |                     |
| com.google.android.permissioncontroller | com.google.android.permissioncontroller         |                     |
| com.google.android.permissioncontroller | com.google.android.permissioncontroller         |                     |
| com.google.android.permissioncontroller | com.google.android.permissioncontroller         |                     |
| Permission controller                   | com.google.android.permissioncontroller         | r_aml_300900736     |
| com.google.android.ext.services         | com.google.android.ext.services                 |                     |
| com.google.android.ext.services         | com.google.android.ext.services                 |                     |
| com.google.android.ext.services         | com.google.android.ext.services                 |                     |
| com.google.android.ext.services         | com.google.android.ext.services                 |                     |
| com.google.android.ext.services         | com.google.android.ext.services                 |                     |
| com.google.android.ext.services         | com.google.android.ext.services                 |                     |
| Android Services Library                | com.google.android.ext.services                 | r_aml_300900700     |
| com.google.android.ext.services         | com.google.android.ext.services                 |                     |
| com.google.android.ext.services         | com.google.android.ext.services                 |                     |
| Tethering                               | com.android.networkstack.tethering.inprocess    | 11                  |
| System Wi-Fi Resources                  | com.android.wifi.resources                      | R-initial           |
| OsuLogin                                | com.android.hotspot2.osulogin                   | 11                  |
| Facebook                                | com.facebook.katana                             | stub (59.1.10)      |
| SCPM Client                             | com.samsung.android.sm.policy                   | 3.2.15              |
| DumpCollector                           | com.samsung.carrier.logcollector                | 3.6.04              |
| Android System WebView                  | com.google.android.webview                      | 83.0.4103.106       |
| Assisted Dialing                        | com.sec.providers.assisteddialing               | 11                  |
| BluetoothTest                           | com.sec.android.app.bluetoothtest               | 11                  |
| com.android.providers.partnerbookmarks  | com.android.providers.partnerbookmarks          | 11                  |
| System updates                          | com.samsung.sdm                                 | 3.0                 |
| Launcher                                | com.sec.android.emergencylaucher                | 1.1.00.24           |
| Samsung Keyboard (deprecated)           | com.sec.android.inputmethod                     | 4.9.00.8            |
| ₩"Bixby₩" voice wake-up                 | com.samsung.android.bixby.wakeup                | 2.1.25.16           |
| Samsung text-to-speech engine           | com.samsung.SMT                                 | 3.1.01.14           |
| Nearby Service                          | com.samsung.android.allshare.service.mediashare | 3.0.11.24           |
| Cameralyzer                             | com.sec.factory.cameralyzer                     | 3.4.20.12040        |
| ANT+ Plugins Service                    | com.dsi.ant.plugins.antplus                     | 3.8.00              |
| Trichrome Library                       | com.google.android.trichromelibrary             | 83.0.4103.106       |
| SIM Toolkit                             | com.android.stk                                 | 11                  |
| Print Spooler                           | com.android.printspooler                        | 11                  |
| Main components                         | com.google.android.modulemetadata               | 2020-09-01          |
| Video Trimmer                           | com.samsung.app.newtrim                         | 3.0.15.1            |
| DRParser Mode                           | com.sec.android.app.parser                      | 12.0.00.4           |
| Samsung Blockchain Keystore             | com.samsung.android.coldwalletservice           | 1.3.01.4            |
| Wi-Fi Direct                            | com.samsung.android.allshare.service.fileshare  | 3.1.11.24           |
| Bluetooth MIDI Service                  | com.android.bluetoothmidiservice                | R-initial           |
| Video Editor                            | com.sec.android.app.vepreload                   | 3.5.54.9            |
| Create movie                            | com.samsung.app.highlightplayer                 | 3.5.54.9            |
| Smart View                              | com.samsung.android.smartmirroring              | 8.2.11.31           |
| SecurityLogAgent                        | com.samsung.android.securitylogagent            | 10.1.00.1           |
| Perso                                   | com.sec.android.app.personalization             | 11                  |
| Companion Device Manager                | com.android.companiondevicemanager              | 11                  |
| com.sec.bcservice                       | com.sec.bcservice                               | 2.0                 |
| Mobile Device Information Provider      | com.amazon.appmanager                           | 1.0.200309.0_140810 |
| AR Doodle                               | com.samsung.android.ardrawing                   | 2.5.00.12           |

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|---------------------------------------------|--------------------------------------------------|------------------------------|
| Google Calendar Sync                        | com.google.android.syncadapters.calendar         | 2020.20.5-319002662-release  |
| com.qualcomm.embms                          | com.qualcomm.embms                               | 1.0                          |
| Enterprise Sim Pin Service                  | com.sec.enterprise.mdm.services.simpin           | 11                           |
| Secure UI Service                           | com.qualcomm.qti.services.secureui               | 2.7.2                        |
| Wearable Manager Installer                  | com.samsung.android.app.watchmanagerstub         | 2.1.01.20006                 |
| SecureElementApplication                    | com.android.se                                   | 11                           |
| Android Shared Library                      | com.google.android.ext.shared                    | 1                            |
| Auto Hotspot                                | com.sec.mhs.smarttethering                       | 1.0.91.0                     |
| ChromeCustomizations                        | com.sec.android.app.chromecustomizations         | 3.0.28                       |
| ShortcutBNR                                 | com.samsung.android.shortcutbackupservice        | 11                           |
| Gmail                                       | com.google.android.gm                            | 2020.05.31.316831277.release |
| EasyOneHand                                 | com.sec.android.easyonehand                      | 5.0                          |
| FactoryCamera                               | com.sec.factory.camera                           | 3.4.45                       |
| NFC                                         | com.android.nfc                                  | 11                           |
| EmergencyProvider                           | com.sec.android.provider.emergencymode           | 1.1.00.6                     |
| IMS Settings                                | com.samsung.advp.imssettings                     | 1.0                          |
| vzw_msdapi                                  | qualcomm.com.vzw_msdapi                          | MSDC_LA_4.3.02.02.0          |
| Link Sharing                                | com.samsung.android.app.simplesharing            | 12.0.00.21                   |
| SmartFittingService                         | com.samsung.android.smartfitting                 | 1.4.14.0                     |
| MDE Service Framework                       | com.samsung.android.mdx.kit                      | 1.1.49.1                     |
| Favourite Contacts                          | com.sec.android.widgetapp.easymodecontactswidget | 12.0.12                      |
| com.android.wallpaperbackup                 | com.android.wallpaperbackup                      | 11                           |
| SamsungOne                                  | com.monotype.android.font.samsungone             | 1.1.02.0                     |
| Basic Daydreams                             | com.android.dreams.basic                         | 11                           |
| Subscription Calendars                      | com.samsung.android.opencalendar                 | 12.0.00.17                   |
| Chrome                                      | com.android.chrome                               | 83.0.4103.106                |
| slocation                                   | com.samsung.android.location                     | 1.5.01.111                   |
| com.samsung.InputEventApp                   | com.samsung.InputEventApp                        | 1.0.0                        |
| Knox Enrollment Service                     | com.sec.enterprise.knox.cloudmdm.smdms           | 2.1.31                       |
| PacProcessor                                | com.android.pacprocessor                         | 11                           |
| ANT + DUT                                   | com.dsi.ant.sample.acquirechannels               | 01.00.05                     |
| Dual Messenger                              | com.samsung.android.da.daagent                   | 3.1.00.0                     |
| Google Contacts Sync                        | com.google.android.syncadapters.contacts         | 11-6684105                   |
| AppLinker                                   | com.sec.android.app.applinker                    | 2.1.10                       |
| Wi-Fi Tips                                  | com.samsung.android.net.wifi.wifiguider          | 1.5.00.67                    |
| Bluetooth                                   | com.android.bluetooth                            | 11                           |
| Bixby Vision                                | com.samsung.android.visionintelligence           | 3.7.30.3                     |
| Samsung ApexService                         | com.sec.android.app.apex                         | 3.3.13                       |
| Dictionary                                  | com.diotek.sec.lookup.dictionary                 | 3.002.013                    |
| Call & text on other devices                | com.samsung.android.mdecservice                  | 3.0.00.43                    |
| Honey Board                                 | com.samsung.android.honeyboard                   | 5.2.00.85                    |
| Hiya Service                                | com.hiya.star                                    | 2.8.0-samsung-791            |
| SilentLogging                               | com.sec.modem.settings                           | 1.0.1                        |
| Certificate Installer                       | com.android.certinstaller                        | 11                           |
| SetupWizardLegalProvider                    | com.sec.android.app.setupwizardlegalprovider     | 2.0.07.0                     |
| com.samsung.android.brightnessbackupservice | com.samsung.android.brightnessbackupservice      | 11                           |
| Sound picker                                | com.samsung.android.app.soundpicker              | 10.0.11.8                    |
| Live Message                                | com.samsung.android.service.livedrawing          | 3.3.19                       |
| Clock                                       | com.sec.android.app.clockpackage                 | 12.0.00.55                   |
| NetworkStackOverlay                         | com.samsung.android.networkstack                 | 11                           |
| Maps                                        | com.google.android.apps.maps                     | 10.36.5                      |
| com.google.ar.core                          | com.google.ar.core                               | 0                            |
| com.samsung.ucsa.agent.es                   | com.samsung.ucsa.agent.es                        | 11                           |



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|---------------------------------------|-----------------------------------------|------------------|
| Google Location History               | com.google.android.gms.location.history | 1.1              |
| StickerCenter                         | com.samsung.android.stickercenter       | 2.0.00.24        |
| Automation Test                       | com.sec.android.app.DataCreate          | 1.1              |
| Dsms                                  | com.samsung.android.dsms                | 2.0.03           |
| Select background music               | com.sec.android.app.ve.vebgm            | 1.1.04.0         |
| com.google.android.captiveportallogin | com.google.android.captiveportallogin   |                  |
| com.google.android.captiveportallogin | com.google.android.captiveportallogin   |                  |
| com.google.android.captiveportallogin | com.google.android.captiveportallogin   |                  |
| com.google.android.captiveportallogin | com.google.android.captiveportallogin   |                  |
| com.google.android.captiveportallogin | com.google.android.captiveportallogin   |                  |
| CaptivePortalLogin                    | com.google.android.captiveportallogin   | r_aml_300900700  |
| com.google.android.captiveportallogin | com.google.android.captiveportallogin   |                  |
| com.google.android.captiveportallogin | com.google.android.captiveportallogin   |                  |
| WlanTest                              | com.sec.android.app.wlantest            | 1.1.0            |
| Bookmark Provider                     | com.android.bookmarkprovider            | 11               |
| Reminder                              | com.samsung.android.app.reminder        | 12.0.01.54000    |
| Sim App Dialog                        | com.android.simappdialog                | 11               |
| Motion photo Viewer                   | com.samsung.android.motionphoto.viewer  | 1.0.34           |
| Quick Share                           | com.samsung.android.aware.service       | 3.2.11.24        |
| System Tracing                        | com.android.traceur                     | 1.0              |
| Samsung Kids Installer                | com.samsung.android.kidsinstaller       | 10.3.00.2        |
| HandwritingService                    | com.samsung.android.sdk.handwriting     | 2.4.01.0         |
| com.samsung.android.container         | com.samsung.android.container           | 11               |
| Key Chain                             | com.android.keychain                    | 11               |
| BBCAgent                              | com.samsung.android.bbc.bbcagent        | 5.0.00.18        |
| com.sec.enterprise.knox.attestation   | com.sec.enterprise.knox.attestation     | 1.0.3            |
| EmergencyManagerService               | com.sec.android.emergencymode.service   | 1.1.00.39        |
| com.android.cts.ctsshim               | com.android.cts.ctsshim                 | 11-6508977       |
| Clipboard edge                        | com.samsung.android.app.clipboardedge   | 3.0.07           |
| YouTube                               | com.google.android.youtube              | 15.26.34         |
| Photo Screensavers                    | com.android.dreams.phototable           | 11               |
| Google Text-to-speech Engine          | com.google.android.tts                  | 22.10.31.3224691 |
| Wi-Fi Calling                         | com.sec.unifiedwfc                      | 6.5.00.51        |
| Duo Installer                         | com.google.android.apps.tachyon         | 0.1              |
| TetheringAutomation                   | com.sec.automation                      | 2.0.1            |
| Safety Information                    | com.samsung.safetyinformation           | 3.0.30.0         |
| SimMobilityKit                        | com.samsung.ims.smk                     | 1.3.20           |
| Android R Easter Egg                  | com.android.egg                         | 1.0              |
| Prime Video                           | com.amazon.avod.thirdpartyclient        | 3.0.73.999901    |
| Tools                                 | com.sec.android.app.quicktool           | 8.2.37           |
| com.samsung.android.wifi.resources    | com.samsung.android.wifi.resources      | 1.0              |
| android.autoinstalls.config.samsung   | android.autoinstalls.config.samsung     | 0000             |
| Calendar                              | com.samsung.android.calendar            | 12.0.00.52000    |
| SecVideoEngineService                 | com.sec.sve                             | 1.0              |
| System updates UI                     | com.samsung.sdm.sdmviewer               | 3.0              |
| Samsung Free                          | com.samsung.android.app.spage           | 5.1.01.4         |
| AR Zone                               | com.samsung.android.arzone              | 1.5.00.18        |
| AASAservice                           | com.samsung.aasaservice                 | 15               |
| MDMApp                                | com.samsung.android.mdm                 | 1.0              |
| Support components                    | com.google.mainline.telemetry           | 2020-09-01       |
| com.sec.phone                         | com.sec.phone                           | 1.0              |
| Amazon Shopping                       | com.amazon.mShop.android.shopping       | 18.14.0.100      |
| Weather                               | com.sec.android.daemonapp               | 1.6.30.49        |

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|----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------|
| Samsung Internet                                                     | com.sec.android.app.sbrowser                                          | 13.0.1.65 |
| Foundation                                                           | com.monotype.android.font.foundation                                  | 2.3.03.0  |
| CarrierDefaultApp                                                    | com.android.carrierdefaultapp                                         | 11        |
| Facebook App Manager                                                 | com.facebook.appmanager                                               | 59.1.10   |
| Print Service Recommendation Service                                 | com.google.android.printservice.recommendation                        | 1.3.0     |
| HTML Viewer                                                          | com.android.htmlviewer                                                | 3.0.04    |
| USBSettings                                                          | com.sec.usbsettings                                                   | 1.0       |
| Samsung capture                                                      | com.samsung.android.app.smartcapture                                  | 4.4.30    |
| Filter Provider                                                      | com.samsung.android.provider.filterprovider                           | 5.0.31    |
| Smart Switch Agent                                                   | com.sec.android.easyMover.Agent                                       | 1.7.00.22 |
| FACM                                                                 | com.samsung.android.aircommandmanager                                 | 1.2.61    |
| ANT HAL Service                                                      | com.dsi.ant.server                                                    | 3.0.0     |
| Autofill with Samsung Pass                                           | com.samsung.android.samsungpassautofill                               | 2.5.01.16 |
| com.qualcomm.timeservice                                             | com.qualcomm.timeservice                                              | 11        |
| QTR                                                                  | com.qualcomm.qti.smq                                                  | 11        |
| com.qualcomm.qti.gpudrivers.msmnile.api30                            | com.qualcomm.qti.gpudrivers.msmnile.api30                             | 0.1.0     |
| Samsung SM8150 VKLayer                                               | com.samsung.vklayer.sm8150                                            | 11.0.00.0 |
| Rounded                                                              | com.android.theme.icon_pack.rounded.themepicker                       | 1.0       |
| Rounded                                                              | com.android.theme.icon_pack.rounded.systemui                          | 1.0       |
| Circular                                                             | com.android.theme.icon_pack.circular.systemui                         | 1.0       |
| Gestural Navigation Bar                                              | com.samsung.internal.systemui.navbar.gestural_no_hint_extra_wide_back | 1.0       |
| com.google.android.overlay.modules.permissioncontroller.forframework | com.google.android.overlay.modules.permissioncontroller.forframework  | 1.0       |
| 3 Button Navigation Bar                                              | com.android.internal.systemui.navbar.threebutton                      | 1.0       |
| Tall cutout                                                          | com.android.internal.display.cutout.emulation.tall                    | 1.0       |
| Circular                                                             | com.android.theme.icon_pack.circular.settings                         | 1.0       |
| com.google.android.overlay.gmsconfig.gsa                             | com.google.android.overlay.gmsconfig.gsa                              | 1.0       |
| Gestural Navigation Bar                                              | com.samsung.internal.systemui.navbar.gestural_no_hint_narrow_back     | 1.0       |
| Orchid                                                               | com.android.theme.color.orchid                                        | 1.0       |
| Black                                                                | com.android.theme.color.black                                         | 1.0       |
| Cinnamon                                                             | com.android.theme.color.cinnamon                                      | 1.0       |
| Gestural Navigation Bar                                              | com.android.internal.systemui.navbar.gestural_wide_back               | 1.0       |
| Rounded                                                              | com.android.theme.icon_pack.rounded.launcher                          | 1.0       |
| Rounded Rectangle                                                    | com.android.theme.icon.rounedirect                                    | 1.0       |
| com.google.android.overlay.modules.cellbroadcastreceiver             | com.google.android.overlay.modules.cellbroadcastreceiver              | 11        |
| Waterfall cutout                                                     | com.android.internal.display.cutout.emulation.waterfall               | 1.0       |
| Punch Hole cutout                                                    | com.android.internal.display.cutout.emulation.hole                    | 1.0       |
| Circular                                                             | com.android.theme.icon_pack.circular.launcher                         | 1.0       |
| Gestural Navigation Bar                                              | com.samsung.internal.systemui.navbar.sec_gestural_no_hint             | 1.0       |
| Squircle                                                             | com.android.theme.icon.squircle                                       | 1.0       |
| Green                                                                | com.android.theme.color.green                                         | 1.0       |
| Filled                                                               | com.android.theme.icon_pack.filled.settings                           | 1.0       |
| Circular                                                             | com.android.theme.icon_pack.circular.android                          | 1.0       |
| Corner cutout                                                        | com.android.internal.display.cutout.emulation.corner                  | 1.0       |
| Circular                                                             | com.android.theme.icon_pack.circular.themepicker                      | 1.0       |
| Rounded                                                              | com.android.theme.icon_pack.rounded.android                           | 1.0       |
| Gestural Navigation Bar                                              | com.android.internal.systemui.navbar.gestural_extra_wide_back         | 1.0       |
| com.samsung.android.networkstack.tethering.overlay                   | com.samsung.android.networkstack.tethering.overlay                    | 11        |
| Gestural Navigation Bar                                              | com.samsung.internal.systemui.navbar.gestural_no_hint_wide_back       | 1.0       |
| Ocean                                                                | com.android.theme.color.ocean                                         | 1.0       |
| Space                                                                | com.android.theme.color.space                                         | 1.0       |
| com.samsung.android.wifi.softap.resources                            | com.samsung.android.wifi.softap.resources                             | 1.0       |
| Gestural Navigation Bar                                              | com.android.internal.systemui.navbar.gestural                         | 1.0       |
| Gestural Navigation Bar                                              | com.samsung.internal.systemui.navbar.gestural_no_hint                 | 1.0       |

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|--------------------------------------------------------------|--------------------------------------------------------------|-----|
| Filled                                                       | com.android.theme.icon_pack.filled.systemui                  | 1.0 |
| Rounded                                                      | com.android.theme.icon_pack.rounded.settings                 | 1.0 |
| Purple                                                       | com.android.theme.color.purple                               | 1.0 |
| com.samsung.android.networkstack.tethering.inprocess.overlay | com.samsung.android.networkstack.tethering.inprocess.overlay | 11  |
| Pebble                                                       | com.android.theme.icon.pebble                                | 1.0 |
| Noto Serif / Source Sans Pro                                 | com.android.theme.font.mentoserifsource                      | 1.0 |
| com.google.android.overlay.modules.documentsui               | com.google.android.overlay.modules.documentsui               | 1.0 |
| android.auto_generated_rro_vendor_                           | android.auto_generated_rro_vendor_                           | 1.0 |
| com.google.android.overlay.modules.cellbroadcastservice      | com.google.android.overlay.modules.cellbroadcastservice      | 11  |
| Filled                                                       | com.android.theme.icon_pack.filled.themepicker               | 1.0 |
| Filled                                                       | com.android.theme.icon_pack.filled.launcher                  | 1.0 |
| Teardrop                                                     | com.android.theme.icon.teardrop                              | 1.0 |
| Tapered Rect                                                 | com.android.theme.icon.taperedrect                           | 1.0 |
| com.google.android.overlay.modules.permissioncontroller      | com.google.android.overlay.modules.permissioncontroller      | 1.0 |
| Gestural Navigation Bar                                      | com.samsung.internal.systemui.navbar.sec_gestural            | 1.0 |
| com.google.android.overlay.gmsconfig.photos                  | com.google.android.overlay.gmsconfig.photos                  | 1.0 |
| Double cutout                                                | com.android.internal.display.cutout.emulation.double         | 1.0 |
| Filled                                                       | com.android.theme.icon_pack.filled.android                   | 1.0 |
| Vessel                                                       | com.android.theme.icon.vessel                                | 1.0 |
| com.google.android.overlay.gmsconfig.common                  | com.google.android.overlay.gmsconfig.common                  | 1.0 |
| Gestural Navigation Bar                                      | com.android.internal.systemui.navbar.gestural_narrow_back    | 1.0 |