

Android system files

Typically only occur in "file system" images. The availability of artifacts depends on the models and versions of Android devices.



Mobile system artifacts contain valuable data, ranging from device information and settings to detailed records of application usage.



iOS system files

Can be found in "full file system" (FFS) images, and many of them are also part of backup images.

Device information

IMEI	\data\drm\pvt\ahrh
Device shutdown timestamps and reasons	\data\system\shutdown-checkpoints\checkpoints-%number%
Last boot time	\data\misc\bootstat\last_boot_time_utc
Lock screen settings	\data\system\locksettings.db
Last factory reset time	\data\misc\bootstat\factory_reset
SIM card details	\data\user_de\%usernumber%\com.android.providers.telephony\databases\telephony.db
Android ID, Bluetooth name & address	\data\system\users\%usernumber%\settings_secure.xml
Battery percentage	\data\user\%usernumber%\com.google.android.apps.turbo\databases\turbo.db
Android OS version	\data\system\usagstats\%usernumber%\version

ADB, Bluetooth & Wi-Fi connections

List of used ADB hosts	\data\misc\adb\adb_keys
Battery usage by Bluetooth devices	\data\user\%usernumber%\com.google.android.apps.turbo\databases\bluetooth.db
Bluetooth info	\data\misc\bluetooth\bt_config.bak
Bluetooth info & Paired Bluetooth devices	\data\misc\bluetooth\bt_config.conf
Wi-Fi connections	\data\misc\wifi\softap.conf \data\misc\wifi\WifiConfigStore.xml

Application usage

Accounts used in apps and services	\data\system_de\0%usernumber%\accounts_de.db
App accounts with authentication tokens	\data\system_ce\%usernumber%\accounts_ce.db
App usage statistics	\data\data\com.google.android.apps.turbo\shared_prefs\app_usage_stats.xml
App activity with timestamps (Digital Wellbeing Google)	\data\user\%usernumber%\com.google.android.apps.wellbeing\databases\app_usage
App activity with timestamps (Digital Wellbeing Samsung)	\data\data\com.samsung.android.forest\databases\dwbCommon.db
Battery usage by apps	\data\data\com.google.android.settings.intelligence\databases\battery-usage-db-v4
Notifications	\data\data\com.google.android.gms\files\fc_m_queued_messages.ldb
Installed app packages with update timestamps	\data\data\com.android.vending\databases\frosting.db
App & device usage with timestamps	\data\data\com.google.android.as\databases\reflection_gel_events.db
Google Play search suggestions	\data\data\com.android.vending\databases\suggestions.db
Recent activity	\data\system_ce\%usernumber%\recent_tasks\%number%_task

Application permissions

Runtime permission usage by apps	\data\system\appops.xml
Apps package details & granted runtime permissions	\data\system\packages.xml
Granted app runtime permissions	\data\system\users\%usernumber%\runtime-permissions.xml



Articles on Android system artifacts



Articles on iOS system artifacts



Device information

Bash command history	FFS: \private\var\root\.bash_history
Device product ID & serial number	FFS: \private\var\containers\Data\System\%GUID%\Library\activation_records\activation_record.plist
Unique device identifier (UDID)	FFS: \private\var\root\Library\Caches\locationd\cache.plist FFS: \private\var\mobile\Library\locationd\user.plist
Directory Services Identifier (DSID)	FFS: \private\var\mobile\Library\Preferences\com.apple.itunescloud.plist Backup: \HomeDomain\Library\Preferences\com.apple.itunescloud.plist
Last iTunes backup time	FFS: \private\var\mobile\Library\Preferences\com.apple.mobile.lbackup.plist Backup: \HomeDomain\Library\Preferences\com.apple.mobile.lbackup.plist
AirDrop ID	FFS: \private\var\mobile\Library\Preferences\com.apple.sharingd.plist Backup: \HomeDomain\Library\Preferences\com.apple.sharingd.plist
Device & iOS details	FFS: \private\var\System\Library\CoreServices\SystemVersion.plist

System settings

Language, locale & keyboards	FFS: \private\var\mobile\Library\Preferences\GlobalPreferences.plist Backup: \HomeDomain\Library\Preferences\GlobalPreferences.plist
Accounts used with iOS services & apps	FFS: \private\var\mobile\Library\Accounts\Accounts3.sqlite Backup: \HomeDomain\Library\Accounts\Accounts3.sqlite
Time zone	FFS: \private\var\mobile\Library\Preferences\com.apple.AppStore.plist Backup: \HomeDomain\Library\Preferences\com.apple.AppStore.plist
Find My iPhone preferences	FFS: \private\var\mobile\Library\Preferences\com.apple.icloud.findmydevice.FMIPAccounts.plist Backup: \HomeDomain\Library\Preferences\com.apple.icloud.findmydevice.FMIPAccounts.plist
Location Services preferences	FFS: \private\var\mobile\Library\Preferences\com.apple.locationd.plist Backup: \HomeDomain\Library\Preferences\com.apple.locationd.plist
SMS retention preferences	FFS: \private\var\mobile\Library\Preferences\com.apple.mobileSMS.plist
Device name & iOS version	FFS: \private\var\root\Library\Lockdown\data_ark.plist
iOS version and build	\private\var\install\Library\MobileInstallation\LastBuildInfo.plist

SIM information

ICCID & Phone Number	FFS: \private\var\wireless\Library\Preferences\com.apple.commcenter.plist Backup: \WirelessDomain\Library\Preferences\com.apple.commcenter.plist
ICCID, Phone number & Cell provider	FFS: \private\var\wireless\Library\Preferences\com.apple.commcenter.device_specific_nobackup.plist
Details of used SIMs	FFS: \private\var\wireless\Library\Databases\CellularUsage.db Backup: \WirelessDomain\Library\Databases\CellularUsage.db

Bluetooth, Wi-Fi & Cell usage

Paired Bluetooth devices	FFS: \private\var\containers\Shared\SystemGroup\%GUID%\Library\Preferences\com.apple.MobileBluetooth.devices.plist Backup: \SysSharedContainerDomain-systemgroup.com.apple.bluetooth\Library\Preferences\com.apple.MobileBluetooth.devices.plist
Paired low energy Bluetooth devices	FFS: \private\var\containers\Shared\SystemGroup\%GUID%\Library\Database\com.apple.MobileBluetooth.ledevices.paired.db Backup: \SysSharedContainerDomain-systemgroup.com.apple.bluetooth\Library\Database\com.apple.MobileBluetooth.ledevices.paired.db
Observed low energy Bluetooth devices	FFS: \private\var\containers\Shared\SystemGroup\%GUID%\Library\Database\com.apple.MobileBluetooth.ledevices.other.db Backup: \SysSharedContainerDomain-systemgroup.com.apple.bluetooth\Library\Database\com.apple.MobileBluetooth.ledevices.other.db
Network usage details	FFS: \private\var\preferences\SystemConfiguration\preferences.plist
Cell tower locations & Wi-Fi details	FFS: \private\var\System\Library\Caches\locationd\cache_encryptedB.db
Wi-Fi connections	FFS: \private\var\preferences\SystemConfiguration\com.apple.wifi-private-mac-networks.plist
Wi-Fi Mac addresses	FFS: \private\var\preferences\SystemConfiguration\NetworkInterfaces.plist
Device serial number & GeoFences	FFS: \private\var\root\Library\Caches\locationd\consolidated.db Backup: \RootDomain\Library\Caches\locationd\consolidated.db

Application usage

Device lock records & more	FFS: \private\var\mobile\Library\AggregateDictionary\ADDDataStore.sqlite
Application usage timestamps & traffic	FFS: \private\var\wireless\Library\Databases\DataUsage.sqlite Backup: \WirelessDomain\Library\Databases\DataUsage.sqlite
Detailed application & device usage records	FFS: \private\var\mobile\Library\CoreDuet\Knowledge\knowledgeC.db FFS: \private\var\mobile\Library\BiomeStreams
Notifications	FFS: \private\var\mobile\Library\UserNotifications\%GUID%\PendingNotifications.plist FFS: \mobile\Library\DuetExpertCenter\streams\userNotificationEvents\local\%number%
Photos app information	FFS: \private\var\mobile\Media\PhotoData\Photos.sqlite Backup: \CameraRollDomain\Media\PhotoData\Photos.sqlite



On-demand course "Android Forensics with Belkasoft"



On-demand course "iOS Forensics with Belkasoft"

Belkasoft X helps acquire "file system" and backup images from iOS and Android devices. It automatically extracts data from the listed mobile system artifacts and from many other operating system-specific and third-party apps.

In Belkasoft X, you can locate extracted system data in the "Artifacts" window under the System files node and partially under the Mobile applications node. Alternatively, you can find them grouped by the type of information they contain in the "Overview" window.

You can examine data extracted from system files by Belkasoft X and explore source files using convenient raw data viewers: SQLite, Plist, and Hex.

