# iMazing CLI Documentation

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## 1. Installation

### 1.1. macOS

- 1. Download and install iMazing: <a href="https://imazing.com/download">https://imazing.com/download</a>
- Add iMazing CLI to your path environment variable by editing either ~/.zshrc or ~/.bashrc depending on the shell you are using. Add the following line to your shell config:

export PATH=/Applications/iMazing.app/Contents/MacOS/:\$PATH

3. To activate iMazing CLI, run: iMazing --license <your iMazing CLI license code>

### 1.2. Windows

- 1. Download and install iMazing: <a href="https://imazing.com/download">https://imazing.com/download</a>
- 2. Launch the Windows "Command Prompt" (cmd)
- 3. To add iMazing CLI to your path environment variable, run: setx path "%path%;C:\Program Files\DigiDNA\iMazing"
- 4. To activate iMazing CLI, run: iMazing-CLI --license <your iMazing CLI license code>

Run iMazing --help (or iMazing-CLI --help on Windows) to list commands available.

Run iMazing --remove-license to deactivate your license and free up a slot.

## 2. Requirements and other important info

### 2.1. Windows Apple Components & Drivers

Starting from version 2.17, iMazing Installer can download all necessary Apple components from the Microsoft Store to install them. iMazing Installer will place all components in the following folder:

C:\ProgramData\DigiDNA\iMazing\MobileDevice

To troubleshoot Apple components installation, a log file is created at this path: C:\ProgramData\DigiDNA\iMazing\MobileDevice\log.txt

#### **Custom Apple Components Installation**

iMazing requires **Apple Mobile Device Support**. For Wi-Fi connectivity, **Bonjour** is also required. The two *.msi* installers are packaged in the **iTunesSetup.exe** or **iTunes64Setup.exe** Installer packages and can be extracted with 7zip or WinRAR. It is important to keep these components up to date in order to maintain compatibility with new iOS versions and devices, and avoid compatibility issues.

- Windows 64 bit: https://www.apple.com/itunes/download/win64
- Windows 32 bit: https://www.apple.com/itunes/download/win32

Please note: Apple Components will be automatically downloaded and installed by the iMazing Installer on Windows and are available by default on macOS.

Please refer to the following documentations for more details:

- <u>https://imazing.com/documentation/Install-Uninstall-iMazing-in-Enterprise-Environments.</u> pdf
- <u>https://imazing.com/documentation/iMazing-in-Enterprise-and-Institutional-Environments.</u> pdf

### 2.2. macOS Apple Components

iMazing requires MobileDevice.framework. It is installed by default with macOS. Since macOS High Sierra 10.13, the system automatically updates this framework when a new version is available.

### 2.3. Get iMazing CLI version

You can run the following command to check which version of iMazing CLI is currently installed:  $\$  iMazing --version

# 2.4. Check if iMazing CLI or Apple Components should be updated

\$ iMazing --check-needs-update iMazing is up to date - 2.11.0.0 Apple Mobile Device is up to date - 988.220.5

Check if iMazing CLI or Apple Components should be updated for compatibility with latest iOS versions and devices.

*Please note: this command doesn't update iMazing CLI nor Apple Components. To update Apple Components on Windows, follow instruction at section 2.5, or download the latest iTunes version. On macOS apply system updates.* 

### 2.5. Update Apple Components on Windows

To update Apple components on Windows, you can run the following iMazing CLI command: \$ iMazing --update-mobile-device

### 2.6. Apple Services

iMazing CLI interacts with Apple servers in 3 cases:

- Checking for new iOS versions and downloading them
- Activating iOS devices
- Signing-in to the App Store and downloading apps

The only other reason for iMazing CLI to make outgoing connections is to contact our license management server https://api.imazing.com

## 3. Commands & Usages

iMazing CLI is a powerful tool to manage and interact with iOS devices from a Mac or PC computer. We'll cover here a few example use cases of the most common commands.

On macOS, the CLI is named iMazing. On Windows, it's imazing-cli or iMazing-CLI

### 3.1. See all available commands and options with help command

\$ iMazing --help

Only commands and options available in your build will be listed.

### 3.2. Pair and activate devices

When connecting a new iOS device to a computer, it is necessary to first *pair* the device and the computer to allow communication.

#### List not paired devices

```
$ iMazing --device-list-not-paired --timeout 1
Looking for not paired devices...
00008110-000640CB0F05801E (iPhone)
Command succeed
```

First obtain the ID of the you wish to pair. Set the --timeout option to 1 for quick results. The default timeout for this command is 60 seconds.

Pair and activate the device

```
$ iMazing --device-pair --udid 00008110-000640CB0F05801E --activate
00008110-000640CB0F05801E - Looking for device...
00008110-000640CB0F05801E (iPhone) - Pair device
00008110-000640CB0F05801E (iPhone) - User Interaction: Enter passcode on device
00008110-000640CB0F05801E (iPhone) - User Interaction: Trust computer on device
00008110-000640CB0F05801E (iPhone) - Pairing successful
```

While pairing a device you will be asked to unlock the device by entering its passcode, reply to the trust dialog box shown on the device and, since iOS 11, enter the device passcode again on the device to validate pairing.

--activate option is optional but it is safe and convenient to pass it always: if the device is not activated, most operations are unavailable.

Note that you can use --pair and --activate options with other commands too, they will trigger pairing and activation if needed.

**Tip:** you can use --udid any to pair all devices which you connect: \$ iMazing --device-pair --udid any --activate In that case, the CLI won't exit before you stop it, and will pair and activate any device you connect.

You can also associate these options to other commands. The following command will pair, activate and back up any device you connect to iMazing.

\$ iMazing --backup-device --udid any --pair --activate

#### Important: if the user refuses the trust prompt, you will get a

kAMDUserDeniedPairingError on every subsequent pairing attempt. This is normal behaviour - iOS refuses pairing until the user disconnects and reconnects the iOS device.

Unpair / Forget devices

\$ iMazing --device-forget --udid 00008110-000640CB0F05801E

To unpair a device and remove it from iMazing's cache, execute the above command. This command does not delete backups of the device.

Important: on Windows, this command will ask for elevated privileges.

### 3.3. Communicate with device, get info and modify options

List devices currently paired and connected

\$ iMazing --device-list --timeout 1 --usb
This command will return devices connected via USB.

--timeout option is by default set to 60 seconds. It is necessary because iMazing can connect to iOS devices via Wi-Fi. Give iMazing enough time to wake up devices over WLAN. If you only intend to connect to USB connected devices, reduce the timeout to the minimum (1) and use the --usb option.

List devices in Recovery or DFU mode

\$ iMazing --device-list-recovery-or-dfu --timeout 1

This command will return devices connected via USB which are in Recovery or DFU mode.

--timeout option is by default set to 60 seconds. It is necessary because iMazing can connect to iOS devices via Wi-Fi. Give iMazing enough time to wake up devices over WLAN.

List all connected devices, paired, in Recovery or DFU mode, or not paired

\$ iMazing --device-list-all-connected

Get a list of all connected devices, paired or not. Same options as for the command --device-list are available. Default timeout is 60, use --timeout 1 and --usb if all you need is a list of USB connected devices, both paired and not paired.

#### List devices in cache

\$ iMazing --device-list-cache
Get a list of all devices paired with iMazing.

#### Execute a command on multiple devices

\$ iMazing --device-info --udid 00008110-000640CB0F05801E 2afed850c28ec5838277dca45aa0de735d4349f5

Most commands can be executed on multiple devices simultaneously by separating device ids with whitespace characters.

#### Execute a command on any new connected device

\$ iMazing --device-info --udid any

In this mode the CLI will not exit and wait for any connected device and execute the specified command for each of them. The command will be executed only once per device, in other words: if you disconnect / reconnect a device it won't be executed multiple times for the same device.

#### Change device name

\$ iMazing --device-change-name --udid 00008110-000640CB0F05801E --device-name "My iPhone"

#### Enable Wi-Fi connection

\$ iMazing --device-enable-wifi --udid 00008110-000640CB0F05801E

## Please note: unlike in iMazing, Wi-Fi connection is by default disabled in the CLI. This setting is persistent.

#### **Disable Wi-Fi connection**

\$ iMazing --device-disable-wifi --udid 00008110-000640CB0F05801E

#### Get device info

\$ iMazing --device-info --udid 00008110-000640CB0F05801E

#### Get device disk usage

\$ iMazing --device-disk-usage --udid 00008110-000640CB0F05801E

#### Get device battery diagnostic

```
$ iMazing --device-battery-diagnostic --udid 00008110-000640CB0F05801E
$ iMazing --device-battery-diagnostic --udid 00008110-000640CB0F05801E --xml --silent
(to export in .plist XML format - only available in custom builds)
$ iMazing --device-battery-diagnostic --udid 00008110-000640CB0F05801E --json --silent
(to export in JSON format - only available in custom builds)
```

#### Show device console

\$ iMazing --device-console --udid 00008110-000640CB0F05801E

#### Observe device notifications

\$ iMazing --device-observe-notifications --udid 00008110-000640CB0F05801E

#### Shutdown device

\$ iMazing --device-shutdown --udid 00008110-000640CB0F05801E

#### **Restart device**

\$ iMazing --device-restart --udid 00008110-000640CB0F05801E

### 3.4. Back up device

### Backup device

```
$ iMazing --backup-device --udid 00008110-000640CB0F05801E --backup-location-path
"/Users/Je/Desktop/Backups" --password 1234 --no-archiving
```

--backup-location-path option allows you to change the device's backup location. By default the device backup location path will be:

- macOS: /Users/<your username>/Library/Application Support/iMazing/Backups/<device id>
- Windows: C:\Users\<your username>\AppData\Roaming\iMazing\Backups\<device id>

This setting is persistent, per device.

--password the correct backup password is needed for iMazing to parse the backup in order to verify it, compute metrics, and archive it.

Note that if the password was saved in the macOS Keychain or Windows Credentials (--save-password option), iMazing CLI will use that when needed.

--save-password option will save the device password in the macOS Keychain or Windows Credentials.

--enable-archiving use this option to enable backup archiving for this device. This is a persistent, per device setting.

--disable-archiving use this option to disable backup archiving for this device. This is a persistent, per device setting.

--no-archiving use this option to disable archiving for this backup only. This is a non persistent option.

For more info about backup archiving, read the following article: <u>https://imazing.com/guides/backup-options-in-imazing</u>

--dont-verify-backup will speedup the backup process by skipping the backup verification and metrics phase at the end of the backup. If this option is provided and backup archiving is disabled, you don't need to provide the password.

Check if device has backup encryption enabled

\$ iMazing --device-check-backup-encryption --udid 00008110-000640CB0F05801E

#### Verify backup password

\$ iMazing --backup-device-verify-password --udid 00008110-000640CB0F05801E --password 1234

#### Enable backup encryption

\$ iMazing --backup-device-change-password --udid 00008110-000640CB0F05801E --password 1234 --new-password 123456 --save-password

It is necessary to provide the current password if backup encryption is currently enabled on the device.

--save-password option will save the device password in the macOS Keychain or Windows Credentials.

#### Disable backup encryption

\$ iMazing --backup-device-remove-password --udid 00008110-000640CB0F05801E --password 123456
It is necessary to provide the current password to disable encryption.

#### Change device backup location

```
$ iMazing --backup-device-change-location --udid 00008110-000640CB0F05801E
--backup-location-path "/Users/Je/Desktop/Backups"
```

#### Reset device backup location

\$ iMazing --backup-device-reset-location --udid 00008110-000640CB0F05801E

#### The device backup location will be reset to:

- macOS: /Users/<your username>/Library/Application Support/iMazing/Backups/<device id>
- Windows: C:\Users\<your username>\AppData\Roaming\iMazing\Backups\<device id>

### 3.5. Restore backup to device

#### Check if "Find my iDevice" is enabled

\$ iMazing --device-check-find-my-device --udid 00008110-000640CB0F05801E
It is required to disable "Find my iPhone / iPad" before restoring a backup. The command
--backup-restore will inform you if you need to disable it and wait until it is done, but it can
be useful to check for this setting specifically.

#### Check if device has data

\$ iMazing --device-check-has-data --udid 00008110-000640CB0F05801E
It is useful to know if the target device already contains any data before running the
--backup-restore command. If it does, it is safer to pass the --restore-erase option
when restoring, especially if the backup's UDID and the target device's UDID don't match.

# Check if an OS update is required on the target device before restoring a backup

\$ iMazing --device-check-requires-os-update-to-restore-backup --udid 00008110-000640CB0F05801E
--backup-path "/Users/Je/Desktop/Backups/2afed850c28ec5838277dca45aa0de735d4349f5"
This command will check if the iOS version installed on the target device is sufficient to restore
the backup. If it is not, you can use the option --restore-update-os to automatically
update the OS on the target device before restoring the backup.

### Restore backup

```
$ iMazing --backup-restore --udid 00008110-000640CB0F05801E --backup-path
"/Users/Je/Desktop/Backups/2afed850c28ec5838277dca45aa0de735d4349f5" --password 1234
--device-name "New iPhone" --restore-update-os --restore-erase --dont-verify-password
```

--backup-path is required.

--password is also required if the backup is encrypted.

--device-name is optional. If you use this option, iMazing will rename the target device after it reboots.

--restore-update-os is optional. Use to automatically update iOS on the target device if needed.

--restore-erase is optional. Use to delete all data on the target device before restoring the backup. It is recommended to use this option in most cases, but not if the target device is brand new or already erased of course, in which case it would just slow down the process without providing any benefits.

### 3.6. iOS Installation, erase and more

#### Erase device

\$ iMazing --device-erase --udid 00008110-000640CB0F05801E --confirm

Erasing a device requires "Find My device" to be turned off. The CLI will ask you to turn it off if it's not already done. --confirm is here as an extra security, to reduce chances of accidentally erasing devices. Note that this command works via Wi-Fi too, and induces a near immediate, non-cancellable start of the erase process. Use with care!

--confirm is required, to prevent executing this command by mistake.

--preserve-esim-data is optional, preserves e-SIM data.

--prevent-proximity-setup is optional, after the device restarts the Setup Assistant will not propose to transfer data from another device located closeby.

### Exit Setup Assistant

\$ iMazing --device-kill-setup-assistant --udid 5a6cbe6lbd6e45e1d02907ce85421fe47fdd73
This command will reboot the device and try to bypass the iOS setup assistant if applicable.

Please note: exiting the Setup Assistant is not possible on iOS 14 and above.

#### Manage IPSW Cache

By default, IPSW files downloaded by iMazing as part of a backup restore or iOS update operation are not persistent.

--cache-folder option can be used to point iMazing to your own cache. If iMazing needs to update iOS, it will look for an appropriate IPSW file in the specified folder, and if it does not find one, it will use the folder to store the download persistently.

#### Update OS

\$ iMazing --device-update-os --udid 00008110-000640CB0F05801E --ipsw
"/Users/Je/Desktop/IPSWs/iPhone\_5.5\_P3\_12.0\_16A366\_Restore.ipsw" --backup

This command will backup the device and update its OS with the specified IPSW file. Only IPSW files signed by Apple can be installed. If the device is in Recovery or DFU mode, this command won't back up devices in Recovery or DFU mode when using --backup.

--ipsw is optional. If not specified, iMazing will download from Apple servers the latest available iOS version for the specified device. --backup is also optional.

Please note: all backup options are also available for this command when used in conjunction with the --backup option (cf: command --backup-device).

#### Enter in Recovery mode

\$ iMazing --device-enter-in-recovery --udid 00008110-000640CB0F05801E
This command will put a device (currently in Normal mode) in Recovery mode.

#### Exit Recovery mode

\$ iMazing --device-exit-recovery --udid GQJ5CQ4DWY

This command will exit Recovery mode when a device is in that mode. It only works when a device is in Recovery mode, not in DFU mode. To exit DFU mode, you must reinstall the OS.

### **Reinstall OS**

\$ iMazing --device-reinstall-os --udid GQJ5CQ4DWY --ipsw "/Users/Je/Desktop/IPSWs/iPhone\_5.5\_P3\_12.0\_16A366\_Restore.ipsw" --erase

This command will reinstall the device's OS. It works with devices in Normal mode but also with devices in Recovery or DFU mode.

--ipsw is optional, if not specified, iMazing will download from Apple servers the latest available iOS version *for the specified device*.

--erase will fully reinstall the device without attempting to keep user data. Omitting the erase option is possible, but doesn't always work: the operation may fail. This is one of the key differences between reinstall-os and update-os commands, the latter being designed to update iOS whilst preserving user data.

### Export raw device data

\$ iMazing --device-export-raw-data --udid 5a6cbe61bd6e45e1d02907ce85421fe47fdd73 --target-path
"/Users/Je/Desktop/iPhone Raw Data"

This command will back up the device and export all data from it.

#### Detect Malware and Spyware activity

\$ iMazing --device-check-malware-activity --udid 5a6cbe61bd6e45e1d02907ce85421fe47fdd73
--target-path "/Users/Je/Desktop/iPhone Analysis" --backup

This command will back up your device and analyze its backup to find indicators of malware and spyware activity. This feature is based on Amnesty International's work. More information here: <a href="https://imazing.com/blog/detecting-pegasus-spyware-with-imazing">https://imazing.com/blog/detecting-pegasus-spyware-with-imazing</a>

--target-path is required, you must pass a folder path on your local file system where the CSV report will be written to.

--source-path is optional, if not specified, iMazing will download a list of known malicious email addresses, domains, process names and file names from publicly available STIX files. You can provide with this option your own STIX files for research purposes. Use a local folder path containing at least 1 .stix or .stix2 files.

--backup is also optional, when passed, it will back up your device, if not passed, your device must have an existing backup.

Please note: all backup options are also available for this command when used in conjunction with the *--*backup option (cf: command *--*backup-device).

### 3.7. Get backup info and extract data

### Get backup info

```
$ iMazing --backup-info --backup-path
"/Users/Je/Desktop/Backups/2afed850c28ec5838277dca45aa0de735d4349f5"
```

### Get backup disk usage

```
$ iMazing --backup-disk-usage --backup-path
"/Users/Je/Desktop/Backups/2afed850c28ec5838277dca45aa0de735d4349f5"
```

#### Extract files and folders from backup (only available in custom builds)

```
$ iMazing --backup-extract --backup-path
"/Users/Je/Desktop/Backups/2afed850c28ec5838277dca45aa0de735d4349f5" --source-path
"HomeDomain/Library/SMS/sms.db" "MediaDomain/Library/SMS" --target-path
"/Users/Je/Desktop/Extracted Messages" --password 1234
```

This command will export all Messages data from a backup. Messages files are stored in two separated domains. Here, we specify the database file from the HomeDomain, and the folder containing attachments from the MediaDomain, both to a folder on our desktop named Extracted Messages. You can use iMazing's backup browser to learn about iOS backups' folder structure:

https://imazing.com/guides/how-to-extract-files-and-data-from-an-encrypted-iphone-backup

--source-path you can specify multiple source paths separated by a space

--target-path is the target folder. This folder must already exists

--password you need to provide the backup password if the backup is encrypted and the password is not stored in macOS Keychain or Windows credentials.

#### Extract all files and folders from backup (only available in custom builds)

```
$ iMazing imazing --backup-extract-all --backup-path
"/Users/Je/Desktop/Backups/2afed850c28ec5838277dca45aa0de735d4349f5" --target-path
"/Users/Je/Desktop/Backup Content" --password 1234
```

#### Detect Malware and Spyware activity

```
$ iMazing --backup-check-malware-activity --backup-path
"/Users/Je/Desktop/Backups/2afed850c28ec5838277dca45aa0de735d4349f5" --target-path
"/Users/Je/Desktop/Backup Analysis"
```

This command will analyse a backup to find indicators of malware and spyware activity. This feature is based on Amnesty International's work. More information here: https://imazing.com/blog/detecting-pegasus-spyware-with-imazing

--target-path is required, you must pass a folder path on your local file system where the CSV report will be written to.

--source-path is optional, if not specified, iMazing will download a list of known malicious email addresses, domains, process names and file names from publicly available STIX files. You can provide with this option your own STIX files for research purposes. Use a local folder path containing at least 1 .stix or .stix2 files.

### 3.8. Apps

#### List installed apps

```
$ iMazing --device-list-apps --udid 00008110-000640CB0F05801E --app-type user --file-sharing
org.videolan.vlc-ios, "VLC", (v. 3.1.2), 143532032
org.whispersystems.signal, "Signal", (v. 2.29.3), 64667648
org.wikimedia.wikipedia, "Wikipedia", (v. 6.0.1), 81125376
```

This command will list only user installed apps which have file sharing enabled. The first field is the app bundle id, important for next commands. The last field is the app total disk usage in bytes (including its stored data)

--app-type you can specify the app type: user, system, all (default is user) --file-sharing is optional and will return only file sharing enabled apps

### Get app info

\$ iMazing --device-app-info --udid 00008110-000640CB0F05801E --bundle-id org.videolan.vlc-ios

--bundle-id you can specify one or multiple app bundle ids

#### Install app

```
$ iMazing --device-install-app --udid 00008110-000640CB0F05801E --source-path "/Users/Je/iOS
Apps/org.videolan.vlc-ios.ipa" "/Users/Je/iOS Apps/com.DigiDNA.FileAid.ipa"
```

--source-path you can specify one or multiple .ipa files to install. You can also restore .imazingapp files (app data backups)

#### Uninstall app

```
$ iMazing --device-uninstall-app --udid 00008110-000640CB0F05801E --bundle-id
org.videolan.vlc-ios org.wikimedia.wikipedia
```

--bundle-id you can specify one or multiple app bundle ids

### Extract app data

```
$ iMazing --device-extract-app-data --udid 00008110-000640CB0F05801E --bundle-id
org.videolan.vlc-ios
```

--bundle-id you can specify one or multiple app bundle ids

Download apps from the App Store (only available in custom builds)

\$ iMazing --download-app --apple-id myaccount@icloud.com --apple-id-password 1234
--save-password --bundle-id org.videolan.vlc-ios --target-path /Users/Je/Downloads/VLC.ipa

--apple-id if you don't specify the Apple ID, the last one used will be used

--apple-id-password you don't need to specify this option if you have previously chosen to save the Apple ID password in macOS Keychain or Windows Credentials.

--save-password to save the Apple ID password in macOS Keychain or Windows Credentials.

--bundle-id you must specify the app bundle ID you want to download

--target-path if you don't specify this option, the app will be save in iMazing's App Library (see iMazing Preferences / Apps to learn what the exact location is)

### 3.9. File System

"AirFair", Directory, 0

#### List files

#### This command will list files and folders at the root of the Media partition:

\$ iMazing --device-fs-list --udid 00008110-000640CB0F05801E --item-path "/" "Podcasts", Directory, 0 "Downloads", Directory, 0 "CloudAssets", Directory, 0 "Books", Directory, 0 "Photos", Directory, 0 "Deferred", Directory, 0 "EnhancedAudioSharedKeys", Directory, 0 "Recordings", Directory, 0 "PhotoStreamsData", Directory, 0 "Radio", Directory, 0 "Espresso", Directory, 0 "Memories", Directory, 0 "DCIM", Directory, 0 "iTunesRestore", Directory, 0 "iMazing", Directory, 0 "iTunes Control", Directory, 0 "MediaAnalysis", Directory, 0 "PhotoData", Directory, 0 "PublicStaging", Directory, 0 "Purchases", Directory, 0 "LoFiCloudAssets", Directory, 0

## This command will list files and folders of the Documents folder of a specific sharing-enabled app:

```
$ iMazing --device-fs-list --udid 00008110-000640CB0F05801E --bundle-id com.DigiDNA.FileAid
--item-path "/Documents"
"Doc.pdf", File, 22067
"Screenshot 1.png", File, 1371063
"Downloads", Folder, 0
```

#### This command will list files and folders at the root of the crash report and logs partition:

```
$ iMazing --device-fs-list --udid 00008110-000640CB0F05801E --fs-crash-reports --item-path "/"
"proactive_notification-2023-04-10-104420.000.ips", File, 919
"intelligenceplatformd.cpu_resource-2023-04-10-131116.ips", File, 135333
"JetsamEvent-2023-04-10-113726.ips", File, 266385
"PerfPowerServicesSignpostReader.cpu_resource-2023-04-10-131041.ips", File, 81711
"SiriSearchFeedback-2023-04-10-130040.ips", File, 347
"JetsamEvent-2023-04-10-111623.ips", File, 262462
"proactive_notification-2023-04-10-104418.0002.ips", File, 763
"JetsamEvent-2023-04-10-102311.ips", File, 252945
"SiriSearchFeedback-2023-04-10-130040.000.ips", File, 345
"xp_amp_app_usage_dnu-2023-04-10-104420.ips", File, 810
"proactive_notification-2023-04-10-104418.000.ips", File, 810
"proactive_notification-2023-04-10-104418.000.ips", File, 763
"Retired", Directory, 0
```

```
"SiriSearchFeedback-2023-04-10-114128.ips", File, 347
"Panics", Directory, 0
"photoanalysisd.cpu_resource-2023-04-10-102725.ips", File, 72845
"proactive_notification-2023-04-10-104418.ips", File, 763
"JetsamEvent-2023-04-10-111510.ips", File, 261436
"proactive_notification-2023-04-10-111932.ips", File, 814
"JetsamEvent-2023-04-10-114244.ips", File, 273990
"proactive_notification-2023-04-10-111931.ips", File, 810
"JetsamEvent-2023-04-10-113715.ips", File, 266452
"Baseband", Directory, 0
"awdd-2023-04-10-113840-1279.consolidated.metriclog", File, 75000
"JetsamEvent-2023-04-10-130527.ips", File, 280438
"JetsamEvent-2023-04-10-102807.ips", File, 252984
"Assistant", Directory, 0
```

File system command options:

--bundle-id with this option, you can specify an app bundle id to connect to its container, otherwise by default you will access the Media folder.

--fs-root if you use this option you will see the root of an app container (only available for apps in development mode). If --bundle-id is not set, you will access the root of the file system of a jailbroken device.

--fs-crash-reports allows you to access a special partition containing all crash reports and log files. Don't pass options --bundle-id and --fs-root when using this option.

#### Get file or folder info

\$ iMazing --device-fs-info --udid 00008110-000640CB0F05801E --bundle-id com.DigiDNA.FileAid --item-path "/Documents/Doc.pdf"

#### Remove file or folder

```
$ iMazing --device-fs-remove --udid 00008110-000640CB0F05801E --bundle-id com.DigiDNA.FileAid
--item-path "/Documents/Doc.pdf"
```

#### Rename / move file or folder

```
$ iMazing --device-fs-rename --udid 00008110-000640CB0F05801E --bundle-id com.DigiDNA.FileAid
--source-path "/Documents/Doc.pdf" --target-path "/Documents/Downloads/Doc 1.pdf"
```

#### Create folder

```
$ iMazing --device-fs-create-dir --udid 00008110-000640CB0F05801E --bundle-id
com.DigiDNA.FileAid --item-name "My Subfolder" --target-path "/Documents/Downloads"
```

#### Copy to device

```
$ iMazing --device-fs-copy-to-device --udid 00008110-000640CB0F05801E --bundle-id
com.DigiDNA.FileAid --source-path "/Users/Je/Desktop/Files" "/Users/Je/Desktop/Doc.pdf"
--target-path "/Documents/Downloads"
```

--source-path you can specify one or multiple paths to copy --target-path must be an existing folder in a writable location on the target device

#### Copy to computer

```
$ iMazing --device-fs-copy-to-computer --udid 00008110-000640CB0F05801E --bundle-id
com.DigiDNA.FileAid --source-path "/Documents/Downloads/Doc.pdf" --target-path
"/Users/Je/Desktop"
```

--source-path you can specify one or multiple paths to copy --target-path must be an existing folder in a writable location on the target computer

### 3.10. Export Datasets

#### Export a single or multiple datasets from a connected device

```
$ iMazing --device-export-datasets --udid 00008110-000640CB0F05801E --backup --bundle-id
com.apple.mobilephone --target-path "/Users/Je/Desktop" --item-name CallHistory.csv --format
csv
```

#### Export a single or multiple datasets from a backup

```
$ iMazing --backup-export-datasets --backup-path
"/Users/Je/Desktop/Backups/2afed850c28ec5838277dca45aa0de735d4349f5" --bundle-id
com.apple.mobilephone --target-path "/Users/Je/Desktop" --item-name CallHistory.csv --format
csv
```

#### These two commands will export a specific dataset in a given format.

--backup back up device (some datasets need to be extracted from a backup, see below)

--bundle-id with this option, you can specify the dataset bundle id:

- Photos: com.apple.mobileslideshow (needs backup)
- Contacts: com.apple.MobileAddressBook (needs backup)
- Calendars: com.apple.mobilecal (needs backup)
- Messages: com.apple.MobileSMS (needs backup)
- WhatsApp: net.whatsapp.WhatsApp (needs backup)
- Call History: com.apple.mobilephone (needs backup)
- Voicemail: com.apple.Voicemail (needs backup)
- Notes: com.apple.mobilenotes (needs backup)
- Safari History, Reading List and Bookmarks: com.apple.mobilesafari (needs backup)
- Profiles: com.apple.Profiles (needs backup)
- Music: com.apple.Music
- Movies, TV Shows, Videos: com.apple.tv
- Books: com.apple.iBooks
- Ringtones: com.apple.Ringtones
- Voice Memos: com.apple.VoiceMemos
- All third-party apps' data: com.apple.AppStore

--target-path must be an existing folder in a writable location on the target computer

--target-filename specify the target filename, it only works when exporting Call History or Safari History (the other datasets are exported to multiple files)

--create-subfolders-hierarchy create sub folders hierarchy when exporting from multiple devices, multiple datasets or for datasets such as Messages, Photos etc. with multiple items (chats, moments...)

--format the export format (only available for Contacts, Calendars, Messages, WhatsApp and Call History)

- All format: all
- Text: text
- CSV: csv

• Excel: excel

#### Please note: all backup options are also available for the command

-device-export-datasets when used in conjunction with the --backup option (cf: command --backup-device).

### 3.11. Configuration and Provisioning

List iMazing Configurator blueprints

\$ iMazing --library-list-blueprints

This command will list all blueprints stored in the local iMazing Configurator library. iMazing Configurator is a powerful tool to provision, configure, repair and manage multiple Apple mobile devices in bulk (learn more: <u>https://imazing.com/configurator</u>).

### Apply blueprints

```
$ iMazing --device-apply-blueprint --udid 00008110-000640CB0F05801E --blueprint-id
3A2EB642-EB04-406B-932C-089DA39753E2
$ iMazing --device-apply-blueprint --udid 00008110-000640CB0F05801E --blueprint-path
"/Users/Je/MyBlueprint.blueprint" --blueprint-password 1234
```

## This command applies a blueprint to a device. You can apply a blueprint to multiple devices using either multiple UDIDs:

```
$ iMazing --device-apply-blueprint --udid aa8255fab8c74e3e7ea82fa9d9843b1b256c88df
00008110-000640CB0F05801E --blueprint-id 3A2EB642-EB04-406B-932C-089DA39753E2
```

#### or any to apply it to any new connected device:

```
$ iMazing --device-apply-blueprint --udid any --blueprint-id
3A2EB642-EB04-406B-932C-089DA39753E2 --usb
```

--blueprint-id this is the blueprint unique identifier. You can create and edit blueprints within iMazing standard version.

--blueprint-path this is the blueprint file path when applying a blueprint exported from the library

--blueprint-password this is the blueprint file path when applying a blueprint exported from the library

--device-number this option allows you to specify a device number which will be used to identify the device for various purposes. Contact our support team for more details on this option

--log-path this option allows you to specify a folder path on your computer's local filesystem where logs should be written

--device-number an optional number that you can assign to the device to identify it

#### List device installed profiles

```
$ iMazing --device-list-profiles --udid 00008110-000640CB0F05801E
```

#### Install configuration or provisioning profile to device

```
$ iMazing --device-install-profile --udid 00008110-000640CB0F05801E --profile-path
"/Users/Je/MyConfig.mobileconfig"
```

#### Remove profile from device

```
$ iMazing --device-remove-profile --udid 00008110-000640CB0F05801E --profile-id
Jes-MacBook-Pro.287A429F-D8FD-4B0C-9055-974E52A1AC5F
```

### 4. JSON Output (only available in custom builds)

JSON output for all CLI commands is available upon request, for large scale projects and by contract only. Use the --json option to output JSON formatted objects. --silent option is automatically enabled when this mode is used.

### 4.1. JSON Options

#### Output JSON to stderr instead of stdout

#### --json-to-stderr

This option can be useful to facilitate parsing when extra outputs are printed by Apple components in the stdout. Extra outputs are especially printed when using the command --backup-device on Windows.

#### Ignore strings files

#### --ignore-strings-files

This option is useful if you want to ignore language .strings files and receive text keys instead values to facilitate messages parsing.

### 4.2. Message Type "Result"

Result messages are used for simple commands, not for lengthy operations. Result type depends on command.

Boolean

```
{
    "MessageType": "Result",
    "Message":
    {
        "Status": "Succeeded",
        "Result": True
    }
}
```

#### Dictionary

```
{
    "MessageType": "Result",
    "Message":
    {
        "Status": "Succeeded",
        "Result":
        {
            "Result":
            {
                "2afed850c28ec5838277dca45aa0de735d4349f5": "Device 1",
                "5ca9cf818b5b53f8390ab428c5a5d6219c283bea": "Device 2"
            }
    }
}
```

#### String

```
{
    "MessageType": "Result",
    "Message":
    {
        "Status": "Succeeded",
        "Result": "iOS 12"
    }
}
```

### Number

```
{
    "MessageType": "Result",
    "Message":
    {
        "Status": "Succeeded",
        "Result": 125
    }
}
```

### Array

```
{
    "MessageType": "Result",
    "Message":
    {
        "Status": "Succeeded",
        "Result":
        {
            "Value 1",
            "Value 2"
        }
}
```

Possible values for Status field

- Succeeded
- Failed

In case Failed is returned, you will get the an error code and the associated text.

```
{
    "MessageType": "Result",
    "Message":
    {
        "Status": "Failed",
        "ErrorCode": 100001,
        "Text":
        {
            "Text":
            {
               "Label": "Cannot connect to Jay's iPhone."
            }
    }
}
```

### 4.3. Message Type "Status"

Status messages are used only during lengthy operations: backup, restore, erase, update...

```
{
     "MessageType": "Status",
     "Message":
     {
           "Phase": "BackupDevice",
           "UID": "2afed850c28ec5838277dca45aa0de735d4349f5",
           "Name": "Jay's iPhone",
           "Status": "Failed",
           "ErrorCode": 3,
           "Text":
           {
                "Label": "Connection was lost before the backup could
complete.\n\nIf your device disconnects repeatedly, try to restart it
as well as your computer."
           }
     }
}
```

Possible values for Status field

- Started
- Succeeded
- Failed
- Cancelled

The Started message is always sent when the operation begins. Succeeded, Failed and Cancelled are sent at the end.

The Phase field is the sub-operation context. Jump to the Phase doc

### 4.4. Message Type "Progress"

```
{
     "MessageType": "Progress",
     "Message":
     {
           "Phase": "InstallIPSW",
           "UID": "2afed850c28ec5838277dca45aa0de735d4349f5",
           "Name": "Jay's iPhone",
           "Progress":
           {
                "IsIndeterminate" : False,
                "Value"
                                      : 0.5
           },
           "Text":
           {
                "Label": "Installing iOS - Unmounting filesystems,
50%"
           }
     }
}
```

The Phase field is the sub-operation context. Jump to Phases

### 4.5. Message Type "Interaction"

Interaction messages are sent when user interaction is required.

```
{
    "MessageType": "Interaction",
    "Message":
    {
        "Phase": "BackupDevice",
        "UID": "2afed850c28ec5838277dca45aa0de735d4349f5",
        "Name": "Jay's iPhone",
        "Interaction": "UnlockDevice",
        "Text":
        {
            "Label": "Jay's iPhone is locked.\nPlease enter your
passcode on the device, or unlock it with Touch ID or Face ID."
        }
    }
}
```

Possible values for Interaction field

- ConnectDevice
- UnlockDevice
- TrustComputer
- InsertSIMCard
- UnlockSIMCard
- TurnOffFindMyDevice

The Phase field is the sub-operation context. Jump to Phases

### 4.6. Phases

Status, Progress and Interaction messages all have a Phase string value. This represents the current sub-operation context. The Phase value is most useful when reporting progress.

- PairDevice
- ActivateDevice
- ConnectToDevice
- CheckFindMyDevice
- BackupDevice
- RestoreBackup
- DownloadIPSW
- InstallIPSW
- EraseDevice
- ApplyConfiguration

### 5. Common Error Codes

Error codes not listed here come straight from iOS services or Apple services. Use Phase for context, and Text/Label to display the message if needed.

DeviceCannotConnect The device is either not connected via USB or not reachable over the Wi-Fi network.	= 100001
DeviceCannotStartSession Starting a session fails if the device is not paired or if the pairing records are corrupted or device side (pairing revoked). In that case the user must unpair (forget) the device and re device-forget anddevice-pair	= 100002 r have been invalidated epair it. Use command:
DeviceDisconnected The device has been disconnected during an operation.	= 100003
DeviceLocked The device is locked and needs to be unlocked. The user must enter his passcode to allo	= 100004 ow this operation.
BackupInsufficientFreeDiskSpaceOnTheDeviceToBackup The device cannot be backed up because there is not enough space available on it. A m required for iOS to prepare the backup.	= 100005 ninimum amount of space is
BackupUnableToBackupUntilSetupIsFinished The device cannot be backed up when the Setup Assistant is displayed. The user must fi step to allow backing up the device.	= 100006 inish the Setup Assistant
BackupDriveNotAvailable The device backup location is not available. The user needs to make sure the backup loc location is on an external drive or NAS, make sure it is properly connected and available user can also change the device backup location in the device options.	= 100007 cation is available and if the on macOS or Windows. The
BackupDriveInsufficientSpace The device cannot be backed up when the Setup Assistant is displayed on the device. Th Assistant steps to allow backing up the device.	= 100008 he user must finish the Setup
BackupComputerWentToSleep The computer entered in sleep mode while an operation was running.	= 100009
BackupTimedout The backup service running on the device didn't respond to iMazing. The user should re device and try again.	= 100010 start both computer and

on the device is necessary to restore this backup.			
BackupRestoreInsufficientFreeSpaceOnDeviceToRestore iMazing cannot restore a backup because there is not enough space available on the target try to erase the target device before restoring this backup.	= jet d	10001 evice. Th	2 e user should
BackupCorrupted The backup is corrupted and cannot be restored. The user should try to use the "Backup iMazing, command:backup-repair	= Rep	10001 air" functi	3 on available ir
BackupRestoreFindMyDeviceMustBeTurnedOff To restore a backup, the user must turn off Find My iPhone / iPad on the target device.	=	10001	4
BackupCancelled The backup has been cancelled by the user.	=	10001	5
RestoreCancelled The restore has been cancelled by the user.		=	100016
BackupPasswordIsInvalid The backup encryption password is invalid. The user must enter the right password to all backup. Optionpassword	= ow il	10001 Mazing to	7 read the
DeviceRequiresBackupEncryption The device has a restriction configuration profile installed which enforces backup encrypt backing up. When a device has this restriction, it is also not possible to restore a non-enc the user must either uninstall the restriction configuration profile or erase the device before backup.	= on t rypt e re	10001 o be enak ed backuj storing ar	8 bled when p. In that case n encrypted
BackupInsufficientOSVersion iMazing can only backup devices on iOS 4 and above. Older iOS versions are not suppor	ted.	=	100019
BackupGenericError iMazing received a generic error from the backup service running on the device. This mer provides more information about the issue. More info here: https://support.imazing.com/hc/en-us/articles/115002137493-Backup-General-iOS-device	= ssag <u>e-bar</u>	10002 le descrip ckup-issue	0 tion usually <u>es</u>
BackupUnableToOpenAnAppDomainDirectory An app installed on the device seems to be corrupted and therefore iMazing cannot back should try to open the device console while backing up the device and search for "Backup related to the backup, to try to find which app is causing the issue.	up t oAge	= he device ent" to see	100021 e. The user e all errors
BackupErrorRemovingSnapshotDirectory iMazing cannot remove the backup "Snapshot" directory in the device backup location.	=	10002	2

iMazing cannot restore a backup to the device because it was made with a more recent version of iOS. Updating iOS

#### ActivationViaAppleServersFailed

iMazing cannot activate the device because it cannot establish a connection with Apple servers. The user must activate the device manually in the Setup Assistant.

#### ActivationFailedSIMCardLockedByCarrier

iMazing cannot activate the device because the device SIM card has been locked by the carrier.

#### PairingFailed

iMazing cannot pair the device and computer together. The user should try to restart both the computer and device and try again.

#### ValidatePairingFailed

iMazing cannot validate the device and computer pairing. The user should try to restart both the computer and device and try again.

#### PairingProhibitedWithComputer

iMazing cannot pair the device because it is supervised by a supervision identity which prevents pairing without the supervision host certificate. The user must import the appropriate supervision Organization in iMazing to allow pairing this device:

https://imazing.com/guides/configurator-overview#orgs

#### BackupCannotGetAppsInfoFromDevice = 100028 iMazing cannot retrieve installed 3rd party apps' info from the device and therefore cannot back it up. The user should try to restart the device, relaunch iMazing and try again.

BackupDBNotReadable iMazing cannot read the backup database because it is corrupted.	=	100029
BackupDBNotWritable iMazing cannot write the backup database because it is corrupted.	=	100030
BackupItemNotFound iMazing cannot find a file or folder in the backup.	=	100031
BackupCannotCopyItem iMazing cannot export a file from the backup.	=	100032
BackupLoadingAborted The user tried to open a backup to copy it in the default iMazing backup location but ar in the backup location.	= n existi	100033 ng backup was already
BackupInfoPlistNotReadable The "Info.plist" file stored in the device backup location is either missing or corrupted.	=	100034
BackupUnlockKeybagFailed	=	100035

#### iMazing cannot read an encrypted backup because the provided password is not valid.

#### = 100023

= 100024

= 100025

#### = 100026

= 100027

BackupUnlockKeybagCancelled The user didn't enter the right backup encryption password and decided to cancel the ope	eratio	= on.	= 100036
FSCannotReadLocal iMazing cannot read a file on the computer or external drive file system.	=	1000	37
FSCannotWriteLocal iMazing cannot write a file or folder on the computer file system or external drive.	=	1000	38
FSItemNotFound iMazing cannot find a file or folder on the local file system, external drive or on the device.	=	1000	39
FSPermissionDenied iMazing cannot access a file or folder on the local file system, external drive or on the devi permissions to access it.	= ice.	1000 It does	40 n't have the right
FSAFCConnectionNotAvailable iMazing cannot connect to the iOS service in charge of file transfers. The user should try to computer and try again.	o re	= estart bo	= 100041 oth device and
FSCannotCreateOperation iMazing cannot create a file system operation. This should never happen.	=	1000	42
FSCannotProcessOperation iMazing cannot process a file system operation. The device may have been disconnected run. The user should try to restart both device and computer.	= bef	1000 Fore the	43 operation can
FSNoManager iMazing cannot find its internal file system manager. This should never happen.	=	1000	44
FSNoAppBundleID iMazing cannot find its internal file system manager. This should never happen.	=	1000	45
FSAppFileSharingDisabled iMazing cannot access a 3rd party app container on the device because the file sharing had developer.	= as n	1000 not beer	46 enabled by the
FSCannotCreateAFCConnection iMazing cannot create a connection to the iOS service in charge of file transfers. The user device and computer and try again.	' sho	= ould try	= 100047 to restart both
DeviceCannotStartService iMazing cannot start a particular service on the device. The user should try to restart both try again.	= n de	1000 vice and	48 d computer and
DeviceCannotSetSecureContext	=	1000	49

re are too many simultaneous connections to a particular service running on the device. art the device and try again.	i në usër shouid
rviceCannotSendMessage = zing cannot send a message to a particular service running on the device. The user shou ice and try again.	100052 Id try to restart t
rviceCannotReceiveMessage zing cannot receive a message from a particular service running on the device. The user ice and try again.	= 100 should try to res
rviceCannotGetSocket = zing cannot obtain the connection socket to communicate with a particular service running r should try to restart the device and try again.	100054 g on the device.
rviceDeviceLinkInvalidVersion = zing cannot communicate with the backup or sync service running on the device because sion is too old.	100055 the installed iC
rviceDeviceLinkInvalidResponse zing received an invalid response from the backup or sync service running on the device. art the device and try again.	= 100 The user shoul
<pre>IPRequestFailed = zing cannot send HTTP requests to a particular server. The user should make sure the co Internet and that no proxy or firewall is blocking the connection.</pre>	100057 omputer is conn
thenticationFailed = zing cannot connect to the App Store to download an app because the user didn't provide dentials.	100058 e valid Apple ID
itFailed = zing cannot initialize the connection to the App Store. The user should make sure the con Internet and that no proxy or firewall is blocking the connection.	100059 nputer is conne
	100000

iMazing cannot set the secure context while connecting to a particular service running on the device. The user should try to restart both device and computer and try again.

ServiceConnectionUnavailable = 100050The connection with a service running on the device was lost. The user should try to restart both device and computer and try again.

#### ServiceTooManyRunning = 100051connections to a particular service running on the device. The user should try to There are too many simultaneous resta

Ser iMaz the devi

053 Ser iMaz start the devi

#### Ser The iMaz user

#### Ser DS iMaz versi

#### Ser

iMazing received an invalid response from the backup or sync service running on the device. The user should try to	נ
restart the device and try again.	

#### HTI

iMaz ected to the

#### Aut iMaz cred

#### Ini

iMaz cted to the

Authentication2FACodeRequired	=	100060
An Apple ID two factor authentication code must be entered by the user.		

Cancelled

056

= 100061

otPurchased cannot download an app because it has not been purchased from
.leInstallationFailed cannot install a configuration profile to the device. The reason will ion.
eDriversAreNotProperlyInstalled components or Drivers are not properly installed. On macOS the us to a newer version of macOS. On Windows the user can reinstall lazing Preferences and click "Reinstall Mobile Device Services".
lotFound error when an item cannot be found.
ientContextIsDifferent Volume Purchase account used to download apps has its owners

An operation has been cancelled by the user.

AppNotFound

= 100062DownloadFailed iMazing cannot download a file. The user should make sure the computer is connected to the Internet and that no proxy or firewall is blocking the connection.

iMazing cannot download an app because it is not available on the App Store. = 100064AppNo

the App Store by the authenticated Apple iMazing ID.

#### Profi = 100065iMazing be available in the error message descript

= 100066 Apple Apple C ser needs to apply all system updates or upgrade iMazing, install the latest iTunes version or go to iM

ItemN Generic

VPPCl The App ship tied to another application or MDM service.

= 100069UserDeniedPairing The user tapped "Cancel" on the device pairing Trust dialog shown on the device while establishing a pairing with the computer.

ServiceDidNotSendOrReceiveAllBytes = 100070iMazing cannot send or receive a certain number of bytes to or from a particular service running on the device. The user should try to restart the device and try again.

LibraryDriveNotAvailable iMazing's Library location is not available. The user needs to make sure the library location is available and if the location is on an external drive or NAS, make sure it is properly connected and available on macOS or Windows. The user can also change the library location in iMazing's Preferences.

#### AppleDriversInsufficientVersion The Apple components or drivers are outdated and need to be updated. On macOS the user needs to apply all

system updates or upgrade to a newer version of macOS. On Windows the user can reinstall iMazing, install the latest iTunes version or go to iMazing Preferences and click "Reinstall Mobile Device Services".

#### = 100071

= 100072

= 100067

= 100063

= 100068

ActivationDeviceIsLockedByFindMyDevice	= 100073
iMazing cannot activate the device because Find My iPhone / iPad was enabled b	efore the device was erased. The
user must enter his Apple ID credentials to let iMazing activate the device or activa	ate the device manually.
NotEnoughFreeSpaceAvailableOnTarget	= 100074
There is not enough free space available on the target device to transfer a file or fr	older
CertificateNotFound	= 100075
iMazing cannot find a supervision certificate in the user's Keychain or the Window	s Certificate store. The user should
try to re-import the organization in iMazing:	
https://imazing.com/guides/configurator-overview#orgs	
Court i fi cot o Not Transford	- 100076
iMaging did find a supervision partificate in the uppr's Kovehein or the Windows Co	
The user should try to re-import the organization in Mazing or trust the certificate	manually in Koychain or Windows
Certificate store:	
https://imazing.com/guides/configurator-overview#orgs	
CertificatePrivateKeyNotFound	= 100077
iMazing did find a supervision certificate in the user's Keychain or the Windows Ce	ertificate store but its private key is
not accessible. The user should try to re-import the organization in iMazing:	
https://imazing.com/guides/configurator-overview#orgs	
LicensingInternetConnectionUnavailable	= 100078
iMazing cannot connect to internet to validate the license.	
	100070
LicensingServerUnavallable	= 100079
imazing licensing server (apl.imazing.com) is unavailable.	
DeviceEnterPasscodeToBackup	= 100080
The user must enter his device passcode while the device passcode prompt scree	en is displayed to allow backing up
the device. This passcode prompt was introduced by Apple in iOS >= 16.1 and iO	S >= 15.7.1.
iCloudAdvancedDataProtectionEnabled	= 100081
iCloud Advanced Data Protection is enabled and therefore iMazing cannot downlo	ad images or videos from iCloud
Photo Library. iCloud Advanced Data Protection must be disabled,	
ServiceDoesNotReturnData	= 100082
A service running on the iOS device does not return data	100002
Unknown	= INT MAX
	—

An unknown error occurred. The error description usually provides more information.