Introduction

This guide covers the technical specifications of the ADF application.

This document applies to the following applications		
ADFPRO Mobile & Computer Triage	DEI Digital Evidence Investigator	MDI Mobile Device Investigator

Supported Target Devices/Operating Systems

The ADF application is designed to scan and image the following targets:

- Android
  - Advanced logical acquisition from the Desktop application (USB, or wireless for Android 11 or newer)
  - Scan of the ADF advanced logical acquisition
  - Preview from the Desktop application (USB connection)
  - Screen Capture from the Desktop application
  - **Scan of full file system acquisitions from GrayKey and Cellebrite UFED (.ufd)**
- ChromeOS (not available in MDI)
  - Advanced logical acquisition from the Desktop application (network connection)
  - Scan of the ADF advanced logical acquisition
  - Screen Capture from the Desktop application
- iOS
  - Advanced logical acquisition from the Desktop application (partial acquisition for iOS 9 and older)
  - Scan of the ADF advanced logical acquisition
  - Scan of iTunes/Apple Devices backups (an encrypted backup needs its password)
  - Preview from the Desktop application
  - Screen Capture from the Desktop application
  - **Scan of full file system acquisitions from GrayKey and Cellebrite UFED (.ufd)**
- Wear OS
  - Advanced logical acquisition from the Desktop application (wireless connection)
  - Scan of the ADF advanced logical acquisition
  - Screen Capture from the Desktop application
- macOS (10.12 or newer on Intel Macs, 11 or newer on Apple silicon Macs)
  - Logical imaging from the remote agent running live
  - Scan from the remote agent running live
- Devices that support MTP (for example, some KaiOS phones)
  - Logical acquisition of selected files via MTP from the Desktop application (Collect Files)
  - Scan via MTP from the Desktop application

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- Windows (64-bit, Intel/AMD processor)
    - Physical imaging from the Collection Key boot and live modes
    - Logical imaging from the remote agent running live (Windows 8 or newer)
    - Scan from the Collection Key boot and live modes
    - Scan from the remote agent running live (Windows 8 or newer)
    - Limitation when booting from the Collection Key:
        - Firmware: UEFI, including Secure Boot; legacy BIOS only with a Collection Key prepared with the MBR partition scheme (x64 computers only)
        - CPU: Intel 64-bit, AMD-64 or compatible; ARM64 (Collection Key prepared with the GPT partition scheme only)
        - RAM: 2GB or more
        - File systems: FAT[4], NTFS, APFS[2 3], HFS+, EXT2/3/4[2], ExFAT[4], YAFFS2[1]
        - RAID: see this section for details
        - Windows Dynamic Disks: not supported
    - Limitations when running live from the Collection Key:
        - Windows 10 (version 1809 or newer) and Windows 11, 64-bit; Windows Server 2019 or newer, 64-bit
        - Windows Dynamic Disks: simple volumes only (no spanned, striped, mirrored, RAID-5 volumes)
- Windows (32-bit, Windows 8 or newer)
    - Logical acquisition from the remote agent running live
    - Scan from the remote agent running live
- Windows (ARM64 processor)
    - Physical imaging and scan from the Collection Key boot mode (Collection Key prepared with the GPT partition scheme)
    - Logical acquisition from the remote agent running live
    - Scan from the remote agent running live
- Remote agent: start it from a Collection Key prepared with the same version of the ADF application; agents from other versions are rejected.
- Drive image scan in the Desktop application
    - Format: raw/dd (single or split; select the first segment), E01, Ex01 (except encrypted or bzip2-compressed), L01 and Lx01 (EnCase Logical Evidence File), AFF4 and AFF4-L, ADF Data Container (folder of standard ZIP files)
    - File systems: FAT[4], NTFS, APFS[2 3], HFS+, EXT2/3/4[2] (Linux LVM is not supported), ExFAT[4], YAFFS2[1], ISO 9660, UFS. NTFS files compressed by Windows (Compact OS) are decompressed.
    - Scan: finds a deleted partition when its file system starts exactly at the beginning of an unallocated area of the disk (space outside the partitions of the partition table); shown as “Deleted - recovered”
    - OS: Windows, Mac, Linux, iOS, Android
    - RAID: RAID sets, Apple Fusion Drives and Linux LVM volumes are not rebuilt, so the image must represent one logical disk
- Folder scan from the Desktop application and in live mode
    - Any folder the computer running ADF can open, including network shares (mapped drive or UNC path)
- RAM capture

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    - Live Windows scan from the Collection Key only (64-bit Intel/AMD or ARM64 Windows, administrator rights); the dump is saved to the Collection Key, which needs at least as much free space as the computer's RAM; on ARM64 computers the dump is a Windows crash dump (.dmp) instead of a raw memory image (.bin)
- Disk encryption
    - BitLocker: detection and unlocking with the password or the 48-digit recovery key, in live and boot modes and in drive images. Startup key (.BEK) files are not supported.
    - TPM: volumes protected by a TPM chip (TPM or TPM+PIN) are detected; when they are locked (boot mode, removed drives, drive images) they are unlocked with the recovery key. In live mode, volumes already unlocked by Windows need no key.
    - FileVault2 over HFS+ and APFS encryption: detected on attached drives and in drive images and unlocked with the password (FileVault2 over HFS+ also needs the wipekey file, which ADF finds on the Recovery HD partition when present).
    - Hardware encryption (Macs with a T2 chip or Apple silicon): detected but not decrypted. The volume can still be scanned as stored, which works only if the data was decrypted when it was acquired (for example a Macquisition image); otherwise use the remote agent on the unlocked live Mac.
    - Remote agent: FileVault2 volumes must be unlocked on the live Mac before the agent is started.

Note [1]: YAFFS2 is detected only in raw NAND images that include the spare (OOB) area. Timezone detection is not supported on these partitions.
Note [2]: Time zone is not detected; the time zone of another scanned partition or of the scanning computer is used (UTC in boot mode).
Note [3]: Only zlib- and LZVN-compressed files are read; files compressed with other methods (for example LZFSE) cannot be read.
Note [4]: When deleted files are searched, large FAT and exFAT volumes (for example over 1TB) can take hours to cache during the scan.

Information to Share with ADF's Technical Support

Most issues are not reproducible in-house because they depend on specific data and environment unavailable to ADF's technical support team. For this reason we need as much information from you as possible. We may also have follow-up questions or tests for you to perform.

When encountering an issue, please collect the following information and share it with the support team:

- Step by step instructions on how to reproduce the issue.
- A screenshot or photo of the error message or problem.
- The log files archive: in the Desktop application, press Ctrl + Alt + L (from the screen showing the error message if possible), choose the destination folder (the Desktop by default) and click SAVE. The application creates the file ADF-Logs-<date>-<time>.7z; click OK in the message that follows to open its folder. To include the log files of a scan, press Ctrl + Alt + L while this scan result is open in the Viewer. Ctrl + Alt + L is not available when the application runs from a Collection Key: copy the \SysLogs and \ScanResults\<SCAN NAME>\SysLogs folders of the Collection Key instead.

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- The crash dump if any (see the section below to locate it).
- Go to this link to upload the support files and share them with the support team (a Google account is needed - go here to create one if needed).

Enabling Debug Mode

In order for ADF to learn more about the specific conditions of an issue to eventually reproduce it in-house, it is often useful to obtain a more detailed log file. If the support team asks for the debug log file, please follow this procedure:

- Start the ADF desktop application.
- Activate the debug log level by pressing Ctrl + Alt + D from the Home screen: the message “Debug mode is ON” confirms it. Pressing Ctrl + Alt + D again shows “Debug mode is OFF” and turns it off. The debug level is not saved: it is off again the next time the application starts, and it applies to the scans started after it is turned on. On a Collection Key, press Ctrl + Alt + D from the Home screen or from the Scan screen.
- Rerun through the steps that caused the issue in the first place.
- See below how to share the debug log files.

To obtain more detailed log information related to the file system decoding, it is possible to start the Desktop application from the command line and use the -fslib-debug parameter:

```
adf.exe -fslib-debug
```

The file system details are written to the files tsk-output.txt and libfvde-output.txt in the SysLogs folder of the scan. These files can become very large: use this parameter only when the support team asks for it.

Log Files

The application creates multiple log files that are useful to identify the source of potential issues. These files do not contain scan results and are safe to share with ADF’s support team. Log files can be found in:

- Log files created by the desktop application:
  - C:\ProgramData\ADF Solutions Inc\v4\ScanResults\<SCAN NAME>\SysLogs (or the SysLogs folder of the scan in the Scan results folder set in the Settings)
  - C:\ProgramData\ADF Solutions Inc\v4\SysLogs
- Log files created by the scanner application on the Collection Key:
  - \ScanResults\<SCAN NAME>\SysLogs
  - \SysLogs
- Audit Logs:
  - C:\ProgramData\ADF Solutions Inc\v4\AuditTrail

The following log files are created:

- adf.exe_DATE_TIME.N.log: Log file created by the main application with messages related to Search Profile Management, CK Preparation, Scan Preparation, Device Enumeration, Imager, Licensing, Viewer and Export.
- scan.exe_DATE_TIME.N.log: Log file created by the scanner with messages related to the scan (Captures, file type detection, space on the drive where scan result go, etc). It also contains the messages of the artifact processing service (artifact_processing_service.exe) and of the document processing service (service.exe).

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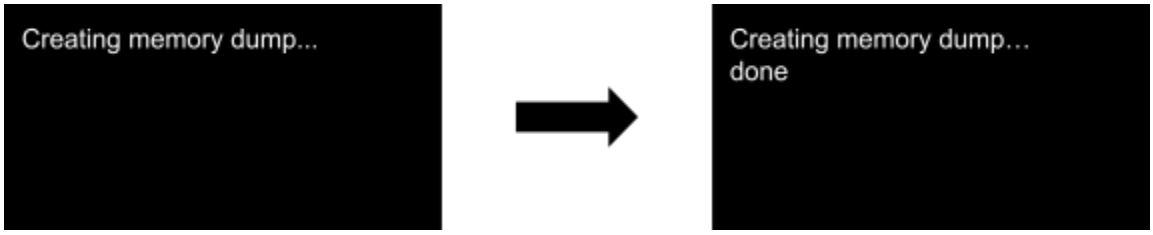
- parser_host.exe_DATE_TIME.N.log: Log file created during a scan by the process that isolates the picture and video parsers (FFmpeg, FreeImage, libheif, OpenImageIO), so that a crash of these parsers does not stop the scan. It is saved in the SysLogs folder of the scan.
- adfsvc_DATE_TIME.N.log: Log file created by the service running in the background allowing a Windows Standard User to access physical drives and to prepare Collection Keys (format them and encrypt them with BitLocker).
- audit_trail_DATE_TIME.N.log: Log file with usage information (created when the audit trail is enabled, and always when the application has only Trial or Education Use licenses).
- preview.exe_DATE_TIME.N.log, frames.exe_DATE_TIME.N.log: Log files of the Preview and Frames windows when they are detached from the Viewer.
- Rosoka.log: Log file of the entity extraction.
- MountTriageDrive.exe_DATE_TIME.N.log: Log file created on the Collection Key in boot mode when some disks or volumes could not be brought online.
- start_logs.txt: File on the Collection Key that gets one line, with the return code, each time the application started from the Collection Key closes.
- In stealth mode, the log file names use the renamed executable names (for example cmd.exe_DATE_TIME.N.log instead of scan.exe_DATE_TIME.N.log).

Crash Dump

In case the application crashes, a process memory dump (crash_<process ID>.dmp) is created in the following locations:

- Desktop application:
  - C:\ProgramData\ADF Solutions Inc\v4\CrashDump
  - C:\ProgramData\ADF Solutions Inc\v4\ScanResults\<SCAN NAME>\CrashDump (or inside the Scan results folder set in the Settings)
- Scanner application on the Collection Key:
  - \CrashDump
  - \ScanResults\<SCAN NAME>\CrashDump

NOTE: When the application crashes, a console window shows “Creating memory dump…”. Wait until it shows “done” and “Press any key to continue…”, then press a key: the program that crashed closes (when the scanner crashes, the application itself stays open). Closing the window earlier leaves an incomplete dump.



Forensic Integrity

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Boot Mode

ADF forensics tools are forensically sound in boot mode. This means that no changes are made to the disks. Any issues that may compromise this situation have been disabled: the boot environment keeps all disks offline and turns off automatic mounting and TRIM, and the ADF boot program brings the disks online in read-only mode (only the Collection Key is writable). This applies to the x64 and the ARM64 boot environments. Disks formatted as Microsoft Dynamic Disks are not supported in boot mode: the boot environment turns off the Windows dynamic disk driver. We hope to overcome this limitation in a future version.

Live Mode

ADF forensics tools are forensically sound in live mode as the changes made to the running system are well understood and documented below. It should be expected that running the ADF application on a live system will leave trace related to:

- The insertion of the flash drives (Collection Key and Authentication Key)
- The execution of the ADF application

Running the application also temporarily switches the active power plan to High performance (the previous plan is restored when the application closes), installs and then removes a temporary driver service (pmem, or ramcap on ARM64 computers) when the RAM is captured, and leaves unlocked the BitLocker volumes that it unlocked during the scan. The application's own temporary files are written to the Collection Key. When the computer is imaged, the application also runs PowerShell on it to read the user's SID and the computer's UUID for the image metadata.

Windows Computer

On a Windows computer, when a drive or partition is scanned, the timestamps of the files accessed by the ADF application are not modified as only the storage media blocks are accessed. When a folder is added as a target, its files are read through Windows, which may update their last-accessed timestamp. Files that are only stored in the cloud (for example OneDrive files on demand) are not read, so they are not downloaded.

The below listed locations were created, modified, or deleted upon the insertion of the USB key and execution of the ADF application. Testing shows that changes are made to Temporary files, Prefetch files, Event Logs, and the System, Software, and NTUser.dat registry files. The results below are from a specific machine and actual modifications will depend on specific computer configurations, controlset in use, and software applications running.

Windows files created, modified, and deleted:

- C:\Windows\Prefetch\ARTIFACT_PROCESSING_SERVICE.E-XXXXXXXX.pf (File Created)
- C:\Windows\Prefetch\ADF.EXE-XXXXXXXX.pf (File Created)
- C:\Windows\Prefetch\PARSER_HOST.EXE-XXXXXXXX.pf (File Created)
- C:\Windows\Prefetch\SCAN.EXE-XXXXXXXX.pf (File Created)
- C:\Windows\Prefetch\SERVICE.EXE-XXXXXXXX.pf (File Created)

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- C:\Windows\Prefetch\CMD.EXE-XXXXXXXX.pf and C:\Windows\Prefetch\NET.EXE-XXXXXXXX.pf (File Created or Modified)
- Depending on the Captures and on what the examiner does, also the prefetch files of SCCAINFO.EXE, PREVIEW.EXE, FRAMES.EXE, HTMLTOPDFCONVERTOR.EXE, QTWEBENGINEPROCESS.EXE, WSCRIPT.EXE and POWERSHELL.EXE (imaging)
- C:\Windows\INF\setupapi.dev.log (Modified unless key was previously in log)

Windows Registry Keys created or keys added upon introduction of USB Device:

- HKEY_LOCAL_MACHINE\system\controlsetxxx\enum\pci\<hardware id>\<serial number>\Device Parameters\{GUID}
- HKEY_LOCAL_MACHINE\system\controlsetxxx\enum\usb\<hardware id>\<instance id>\Device Parameters
- HKEY_LOCAL_MACHINE\system\controlsetxxx\enum\usbstor\<hardware id>\<serial number>\Device Parameters
- HKEY_LOCAL_MACHINE\software\microsoft\windows\currentversion\explorer\desktop\namespace
- HKEY_LOCAL_MACHINE\software\microsoft\windows\currentversion\explorer\desktop\namespace\delegatefolders
- HKEY_USERS\<computername>\<USER>\software\microsoft\windows\currentversion\explorer\mountpoints2\
- HKEY_USERS\<computername>\<USER>\software\microsoft\windows\currentversion\explorer\desktop\namespace
- HKEY_USERS\<computername>\<USER>\software\microsoft\windows\currentversion\explorer\sessioninfo\2\applicationviewmanagement\
- HKLM\SOFTWARE\Microsoft\Cryptography\
- HKLM\System\CurrentControlSet\Services\bam\State\UserSettings\XXXX\\Device\HarddiskVolumeN\win\x64\aps\artifact_processing_service.exe
- HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Compatibility32\artifact_processing_service
- HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Image File Execution Options\artifact_processing_service.exe
- HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Image File Execution Options\scan.exe
- HKLM\Software\Microsoft\Windows\CurrentVersion\App Paths\scan.exe
- HKLM\System\CurrentControlSet\Enum\SCSI\Disk&Ven_XXXXXXXXXXXXXXXX (Ven = vendor of collection key)
- HKLM\System\CurrentControlSet\Control\Class\{xxxxxxxxx}\0000\@adf.exe
- HKCR\AppID\adf.exe
- HKLM\Software\Microsoft\Windows\CurrentVersion\App Paths\adf.exe
- HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Image File Execution Options\adf.exe
- HKLM\SYSTEM\CurrentControlSet\Services\pmem (created and deleted, RAM capture only)
- HKLM\SYSTEM\CurrentControlSet\Services\ramcap (created and deleted, RAM capture on ARM64 computers only)

Windows Event Logs modified if enabled:

- Microsoft-Windows-DriverFrameworks-UserMode/Operational - If enabled
- Microsoft-Windows-DeviceSetupManager - Admin.evtx
- Microsoft-Windows-DeviceSetupManager - Operational.evtx
- Microsoft-Windows-Kernel-PnP - Configuration.evtx

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- Microsoft-Windows-Ntfs - Operational.evtx
- System.evtx

When a Windows computer is scanned or imaged through the remote agent, the agent (agent.exe) runs from the Collection Key. During logical imaging, the application also runs these commands on the computer through the agent: the PowerShell commands Get-CimInstance, Get-Volume, Get-Disk, Get-Partition and Get-BitLockerVolume, and systeminfo.exe and manage-bde.exe (through cmd.exe).

macOS Computer

On a macOS computer, the ADF remote agent uses the native system API to list the files and read their content. The main API calls are open(), close(), lstat(), stat(), read(), opendir() and readdir(), and, during logical imaging, posix_spawn() and popen() to run system commands (sw_vers, sudo, diskutil, gpt, fdisk, ioreg, sysctl, scutil, cat and stat). Reading a file does not change its Modified timestamp; it can update its last-accessed timestamp.

MacOS files modified:

- File System files
  - /Catalog - the main catalog file of the file system
- Log files
  - /private/var/db/diagnostics/logdata.statistics.0.txt
  - /private/var/db/diagnostics/Persist/0000000000000060.tracev3
  - /private/var/log/DiagnosticMessages/<date>.asl
- Settings
  - /private/var/db/SystemPolicyConfiguration/ExecPolicy

The script that starts the agent (startMacOSAgent) turns the macOS application firewall off while the agent runs (if it is on) and turns it back on when the agent stops or the Terminal window is closed.

macOS Computer in Recovery Mode

In Recovery mode, the Modified timestamp of all the files accessed by the ADF remote agent is not modified.
MacOS files modified:

- /BOOTLOG - contains a reference to the Collection Key
- /EFI/APPLE/CACHES/CAFEBEEF/xxxxx.cbl - contains a reference to the Collection Key
- /.fseventsd/* - multiple files logging file system events

Files Integrity

When collecting files from a target device, their MD5 and SHA1 hash values are computed and saved in the scan results. This makes it possible to verify their integrity at a later point in time.

Drive Image Integrity

When imaging a volume or a drive, an MD5 hash value and a SHA1 hash value are computed on all the sectors being read. These hash values are stored in the image log file (<image name>.log) and, for E01 images, also inside the image.

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The image can be verified: the application recomputes the hash values from the image, compares them with the stored ones and adds the result to the log file.

Stealth Mode

This section applies to the following applications		
ADFPRO Mobile & Computer Triage	DEI Digital Evidence Investigator	

Live scans can operate in “stealth mode”. To turn it on, select the Search Profile option “Run live scans in stealth mode”: when one of the Search Profiles copied to a Collection Key has this option on, the whole Collection Key is prepared in stealth mode. In stealth mode, the ADF application makes it difficult to locate traces it leaves on the target computer. Here is a list of traces left and how they are concealed:

- The Collection Key is formatted without a volume label (instead of “CKY”), so Windows shows only a generic drive name.
- The main executables are renamed with common Windows application names: adf.exe becomes explorer.exe, scan.exe cmd.exe, parser_host.exe svchost.exe, preview.exe dllhost.exe, frames.exe ctfmon.exe and ProcessDump.exe lsass.exe. The other executables keep their names, such as artifact_processing_service.exe (artifact Captures) and service.exe (document processing).

File Parsers

Parsers are used to access files embedded in other files, or to access data encoded in files. The following file types are predefined and can be selected in File Captures. Documents (except Microsoft Publisher), pictures, videos, archives, text and Internet files, vCard, configuration, log and resource files, picture databases and system cache files have a dedicated parser that extracts their text, metadata, embedded files or carved pictures. All other types are searched with the default keyword search parser (see below).

Group	Name	Extension	File Name	Password Protection Detection	Carving	Thorough Detection Method
Archive	7zip Archive	7z		Yes		Magic
Archive	BZ Archive	bz2				Magic
Archive	Compressed ROM	cramfs				Magic

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Archive	GNU Zip Archive	gz gzip				Magic
Archive	Java Archive	jar				Heuristic
Archive	Roshal Archive	rar r01		Yes		Magic
Archive	Squash File System	squashfs				Magic
Archive	Tar Archive	tar				Heuristic
Archive	ZIP Archive	zip		Yes		Magic
Audio File	Adaptive Multi-Rate Codec	amr				Magic
Audio File	MP4 Audio Stream	f4a				None
Audio File	MP4 Audio eBook	f4b				None
Audio File	MP4 Audio File	m4a				None
Audio File	MPEG Audio Stream	mp3 mpga				Magic
Audio File	Ogg Vorbis Audio File	ogg oga				Magic
Audio File	Opus	opus				Magic
Audio File	Waveform Audio	wav				Magic
Audio File	Apple Core Audio	caf				Magic
Audio File	3G UMTS Multimedia Container Audio Only	3ga				None
Audio File	Music File Format	669				None
Audio File	Advanced Audio Coding File	aac				None
Audio File	Audio Codec 3 File	ac3				None
Audio File	Audio Data Transport Stream Format	adt adts				None
Audio File	Audio Interchange File Format	aif aiff				None

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Audio File	Compressed Audio Interchange File Format	aifc				None
Audio File	Ambisonic File Format	amb				None
Audio File	Audio Object File Format	aob				None
Audio File	Monkey's Audio File Format	ape				None
Audio File	Sun Microsystems Audio File Format	au				None
Audio File	Adaptive Multi-Rate File Format with WideBand support	awb				None
Audio File	Free Lossless Audio Codec	flac				None
Audio File	Digital Theater Systems File Format	dts				None
Audio File	MPEG-4 Audiobook File Format	m4b				None
Audio File	iTunes Audio File Format	m4p				None
Audio File	Musical Instrument Digital Interface File Format	mid				None
Audio File	Matroska Audio File Format	mka				None
Audio File	Meridian Audio File Format	mlp				None
Audio File	MPEG-2 Compression File Format	mpa				None
Audio File	MPEG-1 Compression File Format	mp1				None

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Audio File	MPEG Layer 2 Audio File Format	mp2				None
Audio File	Sony CONNECT Music Store Audio File	oma				None
Audio File	PureVoice Audio File Format	qcp				None
Audio File	RealAudio File Format	ra				None
Audio File	Speex Compression Ogg Vorbis Audio Format	spx				None
Audio File	Tom's lossless Audio Kompressor	tak				None
Audio File	Dolby TrueHD Audio File Format	thd				None
Audio File	True Audio Codec	tta				None
Audio File	Wave 64 Audio File Format	w64				None
Audio File	WavPack Hybrid Audio File Format	wv				None
Audio File	Audio Visual Research Format	avr				None
Audio File	GSM 06.10 Lossy Speech Compression	cdda				None
Audio File	Continuously Variable Slope Delta Modulation	cvs cvsd				None
Audio File	Continuously Variable Slope Delta Modulation (unfiltered)	cvu				None
Audio File	Variable Slope Delta Modulation Audio	dvms				None

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Audio File	PARIS Audio File Format	fap				None
Audio File	FSSD Sound	fsdd				None
Audio File	Grandstream Ring-tone Files	gsrt				None
Audio File	Portable Voice Format	pvf				None
Audio File	Dialogic Voice Audio File	vox				None
Audio File	Apple Lossless Audio Codec	alac				None
Binary File	Java Class	class				Magic
Binary File	Dynamic Link Library	dll				Heuristic
Binary File	Executable	exe				Heuristic
Binary File	ELF Binary	so				Magic
Database File	Microsoft Access 2007	accdb accde accdr				Magic
Database File	Generic Database	db				None
Database File	Generic Database (wal)	db-wal				None
Database File	xBASE Database	dbf				None
Database File	ESE Database	edb				Magic
Database File	Microsoft Money Backup	mbf				Magic
Database File	Microsoft Access Database	mdb mde				Magic
Database File	Microsoft Money	mny				Magic

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Database File	QuickBooks Backup	qbb				None
Database File	QuickBooks	qbw				None
Database File	Quicken	qdf				Magic
Database File	Quicken Interchange Format	qif				None
Database File	sqlite Database	sqlite				Magic
Database File	sqlite Database (wal)	sqlite-wal				None
Database File	Versa Check Backup	vbf				None
Database File	Versa Check File	vdf				None
Disk Image	GNU Raw Multivolume Image	001	(?i:.*\.dd$)			None
Disk Image	CD Image Track Info	cue				None
Disk Image	GNU Raw Image	dd				None
Disk Image	Apple Disk Image	dmg				Magic
Disk Image	Expert Witness Format Image	ewf e01				Magic
Disk Image	Expert Witness Format Image v2	Ex01				None
Disk Image	Disk Image	img				None
Disk Image	ISO-9660 CD Image	iso				Magic
Disk Image	Encase Logical Image	l01				Magic
Disk Image	SMART Disk Image	s01				None
Disk Image	Sparse Image	sparseimage				Magic

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Disk Image	VirtualBox Image	vdi				None
Disk Image	VMware Image	vmdk				Magic
Document	Comma-Separated Values	csv				None
Document	Microsoft Word (Binary)	doc dot		Yes (No for Libre/OpenOffice)		Heuristic
Document	Microsoft Word (XML-based)	docm docx dotm dotx		Yes (No for Libre/OpenOffice)		Heuristic
Document	Apple iWork Keynote	key		Yes		Heuristic
Document	Apple iWork Numbers	numbers		Yes		Heuristic
Document	OpenDocument Formula	odf				Heuristic
Document	OpenDocument Graphics	odg				Heuristic
Document	OpenDocument Presentation	odp				Heuristic
Document	OpenDocument Spreadsheet	ods				Heuristic
Document	OpenDocument Text Document	odt				Heuristic
Document	Microsoft OneNote Index	onetoc2				Magic
Document	OpenDocument Presentation Template	otp				Heuristic
Document	OpenDocument Spreadsheet Template	ots				Heuristic
Document	OpenDocument Text Document Template	ott				Heuristic

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Document	Apple iWork Pages	pages		Yes		Heuristic
Document	Portable Document Format	pdf		Yes		Magic
Document	Microsoft PowerPoint (Binary)	ppt		Yes (No for Libre/OpenOffice)		Heuristic
Document	Microsoft PowerPoint (XML-based)	pptm pptx		Yes (No for Libre/OpenOffice)		Heuristic
Document	Microsoft Publisher	pub				Heuristic
Document	Rich Text Format	rtf				Magic
Document	Data Exchange File	slk				Magic
Document	StarOffice XML Writer document	sxw				Heuristic
Document	Microsoft Works	wps				Heuristic
Document	Microsoft Excel (Binary)	xls		Yes (No for Libre/OpenOffice)		Heuristic
Document	Microsoft Excel (XML-based)	xlsm xlsx		Yes (No for Libre/OpenOffice)		Heuristic
Document	XML Paper Specification	xps				Heuristic
Email File	Microsoft Outlook Express	dbx				Magic
Email File	Electronic Mail	eml				None
Email File	Mailbox Message File	mbx				Magic
Email File	Outlook Mail Message	msg				Heuristic
Email File	Microsoft Outlook	ost pst				Magic
Email File	vCard	vcf vmg v				Magic

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Internet File	ASP.NET Web Page Source	aspx				Heuristic
Internet File	Javascript	js				Heuristic
Internet File	MHTML Web Archive	mht				None
Internet File	PHP script	php				Heuristic
Internet File	HTML Page	shtml html shtm htm				Heuristic
Internet File	Extensible Markup Language	xml				Heuristic
Mac Os Artefact	Apple Keychain Data	keychain				None
Mac Os Artefact	Apple Property List	plist				Magic
Misc Artifact	Configuration	cfg				None
Misc Artifact	Configuration	conf				None
Misc Artifact	Shortcut	lnk				Magic
Misc Artifact	Log	log				None
Misc Artifact	Resource	rc				None
P2P File	P2P Cache	met				None
P2P File	Torrent	torrent				Magic
Picture	Hasselblad 3F RAW Image	3fr				None
Picture	ARRI RAW Image	ari				None
Picture	Sony Digital Camera Image	arw srf sr2				None
Picture	Windows OS/2 Bitmap Graphics	bmp			Yes	Heuristic
Picture	Corel Photo-Paint	cpt				Magic
Picture	Canon Raw Image	cr2				None

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Picture	Canon Raw Image	crw				None
Picture	Kodak RAW Image	dcr kdc				None
Picture	Digital Negative Image	dng				None
Picture	Enhanced Windows Metafile	emf				Heuristic
Picture	Encapsulated PostScript	eps				Heuristic
Picture	Epson RAW Image	erf				None
Picture	Graphic Interchange Format	gif gifv			Yes	Heuristic
Picture	High Efficiency Image Format	heic heif				Magic
Picture	Phase One RAW Image	iiq				None
Picture	JPEG/JIFF Image	jpe jpg jpeg jpg_320x240 jpg-320x240 jpg_320x320 jpg_170x128 jpg-170x128 new jpg_2 jfif jfi jif			Yes	Heuristic
Picture	Minolta Agfa RAW Image	mdc				None
Picture	Mamiya RAW Image	mef				None
Picture	JPEG 2000	mj2 mpj2 jp2 j2k jpf jpx jpm jpc jpp jpa jpeg2k jpg2k jpeg2000 jpg2000				Magic
Picture	Leaf Camera RAW Image	mos				None
Picture	Minolta Raw Image	mrw				None

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Picture	Nikon Raw Image	nef nrw				None
Picture	Olympus RAW Image	orf				None
Picture	Paintbrush Bitmap Graphic	pcx				Heuristic
Picture	Pentax RAW Image	pef				None
Picture	Portable Network Graphic	png			Yes	Heuristic
Picture	Portable Pixmap Image	ppm				None
Picture	Photoshop Format	psd			Yes	Heuristic
Picture	Fuji RAW Image	raf				None
Picture	Panasonic RAW Image	rw2 raw				None
Picture	Leica RAW Image	rwl				None
Picture	Samsung RAW Image	srw				None
Picture	Truevision Targa Graphic	tga				Heuristic
Picture	Tagged Image Format	tif tiff			Yes	Heuristic
Picture	WebP Image Format	webp wep			Yes	Magic
Picture	Windows Metafile	wmf				Heuristic
Picture	SIGMA X3F Camera RAW Image	x3f				None
Picture	X11 Pixmap Graphic	xpm				Magic
Picture	Casio RAW	bay				None
Picture	BMQ File Format	bmq				None
Picture	Canon Raw Imaget	cr3				None

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Picture	Camera RAW Image File(Capture Shop) file	cs1				None
Picture	RAW file format for Kodak digital camera	dc2				None
Picture	Hasselblad RAW Image	fff				None
Picture	High Dynamic Range	hdr				None
Picture	Kodak DC25 RAW	k25				None
Picture	Logitech Camera Raw(PXN)	pxn				None
Picture	Rollei RDC images	rdc				None
Picture	CINE format	cine				None
Picture	IA format	ia				None
Picture	KC2 format	kc2				None
Picture	Apple QuickTake Picture	qtk				None
Picture	STI format	sti				None
Picture	Kodak Pro Back RAW	drf				None
Picture	Digital Still Camera	dsc				None
Picture	Pentax RAW images	ptx				None
Picture	CAP format	cap				None
Picture	Rawzor Compressed Raw Image file	rwz				None
Picture	Kodak digital camera RAW file format	dib				None
Picture	CIN(Kodak Cineon) Files	cin				None
Picture	Digital Imaging and Communications in	dcm				None

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	Medicine(DICOM) images					
Picture	Digital Picture Exchange	dpx				None
Picture	Flexible Image Transport System	fits				None
Picture	Radiance RGBE Image Format	rgbe				None
Picture	AV1 Image File Format	avif				None
Picture	Interchange File Format	iff				None
Picture	J2C format	j2c				None
Picture	JPEG XL file format	jxl				None
Picture	OpenEXR Bitmap File Format	exr sxr mxr				None
Picture	Volume sparse data file format	vdb				None
Picture	Portable Graymap Image(PGM), Portable Any Map Image(PNM)	pgm pbm pnm pfm				None
Picture	PSD formats	pdd psb				None
Picture	Per - Face Texture Mapping(PTEX)	ptex				None
Picture	REDCODE RAW(R3D)	r3d				None
Picture	Run - Length Encoded, version A(RLA)	rla				None
Picture	Silicon Graphics Image File	sgi rgb rgba bw int inta				None
Picture	PIC format	pic				None

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Picture	Truevision(TARGA) Raster Graphics File Format	tpic				None
Picture	TIFF formats	tx env sm vsm				None
Picture	HEIC formats	heics hif				None
Picture DB File	Windows Picture Database	db	(?i:.*(thumb|icon)cache_(16|32|48|96|256|768|1024|1280|1600|1920|2560|sr|wide|exif))			Magic
Picture DB File	Windows XP Picture Database	db	thumbs			Heuristic
Picture DB File	iOS Thumbnail Database	ithmb				None
Text File	Text	txt text				Magic
Text File	Json	json				None
Video	3G CDMA2000 Multimedia Container	3g2 3gp2 3gpp2				Heuristic
Video	3G UMTS Multimedia Container	3gp 3gpp				Heuristic
Video	Microsoft Advanced Systems Format	asf wma wmv				Magic
Video	Audio Video Interleave File	avi divx xvid				Magic
Video	Adobe Flash Protected MPEG-4	f4p				None
Video	Adobe Flash MPEG-4	f4v				Heuristic
Video	Adobe Flash Video	flv				Magic
Video	MPEG-2 Video Stream	m2v mp2v mpg2 mpv2				None

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Video	MPEG-4 Video Stream	m4v				Magic
Video	Matroska Video Stream	mkv				Heuristic
Video	Camcorder Video	mod tod dv				None
Video	QuickTime Video	mov qt movie				Magic
Video	MPEG-1 Video Stream	m1v				None
Video	MPEG-4 Video Stream	mp4				Magic
Video	MPEG-4 Video Stream	mp4v				None
Video	MPEG Video Stream	mpeg mpg mpe				Magic
Video	AVCHD Video Stream	mts avchd				Magic
Video	Ogg Vorbis Video File	ogv				Magic
Video	RealMedia Video Stream	rm				Heuristic
Video	DVD Video Movie	vob				None
Video	HEVC Video	hevc				Magic
Video	WebM Video Container	webm				Heuristic
Video	Adobe Flash	swf				Magic
Video	Actions Media Video	amv mtv				None
Video	Blu-ray BDAV Video File	m2ts bdav				None
Video	Dirac Video File	diarc				None
Video	H.264 Encoded Video File	h264				None

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Video	H.265 Encoded Video File	h265				None
Video	Video Transport Stream	ts				None
Video	NUT Multimedia Container	nut				None
Video	Material Exchange Format	mxf				None
Video	Motion JPEG Format	mjpeg				None
Video	Windows Recorded TV show	wtv				None
Windows Registry	Current User Hive	DAT	NTUSER			Magic
Windows Registry	SAM Hive		SAM			Magic
Windows Registry	Security Hive		SECURITY			Magic
Windows Registry	Software Hive		SOFTWARE			Magic
Windows Registry	System Hive		SYSTEM			Magic

Default Keyword Search Parser

When searching for keywords in files that do not have a dedicated parser, a default parser is used that tries to locate ASCII and UTF-8 characters. Text encoded in UTF-16, and non-ASCII characters in other code pages, are not found. Text and Internet files, vCard, configuration, log and resource files use the text parser, which detects the encoding and converts the text.

File Identification

File types are determined based on the file extension and, for some types, the file name, or by analyzing the file's header (this is called the thorough identification method because it is more accurate but also more time consuming).
When a file matches several file type definitions, only one is assigned:

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1. File types you created and use in File Captures take precedence over built-in types. With the thorough identification method, a built-in type recognised from the file content takes precedence over your type, unless your type's header byte sequence matches.
2. A type defined by file name and extension (for example thumbs.db) takes precedence over one defined by extension only.
3. With the thorough identification method, the type recognised from the file content takes precedence over the type from the extension.

Avoid overlapping definitions between your own file types: they are not resolved in alphabetical order.

Failover Capability

During the course of a scan some files with unexpected data structure can cause the parsers in charge of their processing to crash, forcing the application to terminate unexpectedly. To circumvent this situation, the ADF forensics tools include a crash management system that isolates the parsers most susceptible to crash so the running application is not affected. Currently, the parsers of pictures and videos run in a separate process (parser_host.exe). Documents and e-mails are processed by a separate document processing service, and many artifact Captures run in a separate artifact processing service.

Additionally, isolating the parsers allows the application to monitor how long a file takes to be processed and detect if and when the processing has stopped. Each file is allowed 5 minutes per 10MB of data, but no more than the time set in the Search Profile ("Skip files processed for more than", from 10 seconds to 120 minutes). When this time is reached, the processing of the file is stopped (when parser_host.exe stops responding, it is terminated and restarted) and the scan proceeds with the next file.
All files that are not successfully scanned are entered in the scan log.

Captures Execution Sequence

The ADF forensic tools are designed to find relevant data as quickly as possible while still performing a thorough scan of the target devices. This is accomplished by carefully sequencing the target drive areas and the types of files to process. The scan follows this sequence:

1. Execute each artifact Capture
2. Process the files whose names match the keywords of the Captures that search file names
3. Process the files referenced by the artifact records collected previously against the file Captures
4. Scan the allocated files in the targeted folders on each partition
5. Scan allocated files in the other folders on each partition
6. Scan the allocated containers in the targeted folders on each partition
7. Scan allocated containers in the other folders on each partition
8. Scan deleted files
9. Carve pictures from the allocated files of the types selected in the Capture (for example the page file) on each partition
10. Carve pictures from the unallocated space of each partition and process them with the Captures that use carving
11. Compare the pictures with the PhotoDNA Captures

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Steps 3 to 9 are completed on one partition before they start on the next one.

To increase scan performance, Captures should search a narrow file set, and avoid overlaps between Captures or the same file could be processed multiple times.

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Supported Apps

The table below lists, for each platform, the Operating Systems, smartphone apps, and computer applications that the Captures are designed to collect artifacts from. Some Captures built into the application, such as those for Internet Explorer, Skype, Outlook and USB History, are not in the table.

App/OS	Platform	Capture
android	Android File System Complete	Application Permissions
android	Android File System Complete	Application Usage
android	Android File System Complete	Bluetooth Devices
android	Android File System Complete	Device Information
android	Android File System Complete	Installed Applications
android	Android File System Complete	OS Information
android	Android File System Complete	Recent Files
android	Android File System Complete	Saved Contacts
android	Android File System Complete	Saved Networks
android	Android File System Limited	Application Permissions
android	Android File System Limited	Application Usage
android	Android File System Limited	Bluetooth Devices
android	Android File System Limited	Device Information
android	Android File System Limited	Installed Applications
android	Android File System Limited	Network Connection Activity
android	Android File System Limited	OS Information
android	Android File System Limited	Saved Networks
androidcalls	Android File System Complete	Calls
androidcalls	Android File System Limited	Calls
androidmessages	Android File System Complete	Messages
androidmessages	Android File System Limited	Messages
applefiles	iOS File System Complete	Cloud Files
applefiles	iOS File System Limited	Cloud Files
applehealth	iOS File System Complete	Health Metrics
applehealth	iOS File System Complete	Health Profiles
applehealth	iOS File System Limited	Health Metrics
applehealth	iOS File System Limited	Health Profiles

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applemessages	iOS File System Complete	Messages
applemessages	iOS File System Limited	Messages
applemessages	macOS File System	Messages
applemessages	macOS Live	Messages
applenotes	iOS File System Limited	Notes
applenotifications	iOS File System Complete	Notifications
applenotifications	macOS File System	Notifications
applenotifications	macOS Live	Notifications
applewallet	iOS File System Complete	Merchant Financial Transactions
applewallet	iOS File System Complete	Peer Financial Transactions
ares	Windows File System	P2P Files Shared or Downloaded
ares	Windows File System	P2P Search Terms
ares	Windows Live	P2P Files Shared or Downloaded
ares	Windows Live	P2P Search Terms
bittorrent	macOS File System	P2P Files Shared or Downloaded
bittorrent	macOS Live	P2P Files Shared or Downloaded
bittorrent	Windows File System	P2P Files Shared or Downloaded
bittorrent	Windows Live	P2P Files Shared or Downloaded
brave	Android File System Complete	Bookmarks
brave	Android File System Complete	Browser Cache
brave	Android File System Complete	Browsing History
brave	Android File System Complete	Download History
brave	Android File System Complete	Form Data
brave	Android File System Complete	Search Terms
brave	Android File System Complete	Session
brave	Android File System Complete	Synced Tabs
brave	Android File System Complete	Top Sites
brave	iOS File System Complete	Bookmarks
brave	iOS File System Complete	Browser Cache
brave	iOS File System Complete	Browsing History
brave	iOS File System Complete	Download History
brave	iOS File System Complete	Form Data
brave	iOS File System Complete	Search Terms
brave	iOS File System Complete	Session

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brave	iOS File System Complete	Synced Tabs
brave	iOS File System Complete	Top Sites
brave	iOS File System Limited	Bookmarks
brave	iOS File System Limited	Browser Cache
brave	iOS File System Limited	Browsing History
brave	iOS File System Limited	Download History
brave	iOS File System Limited	Form Data
brave	iOS File System Limited	Search Terms
brave	iOS File System Limited	Session
brave	iOS File System Limited	Synced Tabs
brave	iOS File System Limited	Top Sites
brave	macOS File System	Bookmarks
brave	macOS File System	Browser Cache
brave	macOS File System	Browser Extensions
brave	macOS File System	Browsing History
brave	macOS File System	Download History
brave	macOS File System	Form Data
brave	macOS File System	Search Terms
brave	macOS File System	Session
brave	macOS File System	Synced Tabs
brave	macOS File System	Top Sites
brave	macOS Live	Bookmarks
brave	macOS Live	Browser Cache
brave	macOS Live	Browser Extensions
brave	macOS Live	Browsing History
brave	macOS Live	Download History
brave	macOS Live	Form Data
brave	macOS Live	Search Terms
brave	macOS Live	Session
brave	macOS Live	Synced Tabs
brave	macOS Live	Top Sites
brave	Windows File System	Bookmarks
brave	Windows File System	Browser Cache
brave	Windows File System	Browser Extensions

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brave	Windows File System	Browsing History
brave	Windows File System	Download History
brave	Windows File System	Form Data
brave	Windows File System	Search Terms
brave	Windows File System	Session
brave	Windows File System	Synced Tabs
brave	Windows File System	Top Sites
brave	Windows Live	Bookmarks
brave	Windows Live	Browser Cache
brave	Windows Live	Browser Extensions
brave	Windows Live	Browsing History
brave	Windows Live	Download History
brave	Windows Live	Form Data
brave	Windows Live	Saved Credentials
brave	Windows Live	Search Terms
brave	Windows Live	Session
brave	Windows Live	Synced Tabs
brave	Windows Live	Top Sites
chatgpt	Android File System Complete	Messages
chatgpt	iOS File System Complete	Messages
chrome	Android File System Complete	Bookmarks
chrome	Android File System Complete	Browser Cache
chrome	Android File System Complete	Browsing History
chrome	Android File System Complete	Download History
chrome	Android File System Complete	Form Data
chrome	Android File System Complete	Search Terms
chrome	Android File System Complete	Session
chrome	Android File System Complete	Synced Tabs
chrome	Android File System Complete	Top Sites
chrome	iOS File System Complete	Bookmarks
chrome	iOS File System Complete	Browser Cache
chrome	iOS File System Complete	Browsing History
chrome	iOS File System Complete	Download History
chrome	iOS File System Complete	Form Data

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chrome	iOS File System Complete	Search Terms
chrome	iOS File System Complete	Session
chrome	iOS File System Complete	Synced Tabs
chrome	iOS File System Complete	Top Sites
chrome	iOS File System Limited	Bookmarks
chrome	iOS File System Limited	Browser Cache
chrome	iOS File System Limited	Browsing History
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chrome	iOS File System Limited	Top Sites
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chrome	macOS File System	Browser Cache
chrome	macOS File System	Browser Extensions
chrome	macOS File System	Browsing History
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chrome	macOS File System	Form Data
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chrome	macOS File System	Top Sites
chrome	macOS Live	Bookmarks
chrome	macOS Live	Browser Cache
chrome	macOS Live	Browser Extensions
chrome	macOS Live	Browsing History
chrome	macOS Live	Download History
chrome	macOS Live	Form Data
chrome	macOS Live	Search Terms
chrome	macOS Live	Session
chrome	macOS Live	Synced Tabs
chrome	macOS Live	Top Sites
chrome	Windows File System	Bookmarks

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chrome	Windows File System	Browser Cache
chrome	Windows File System	Browser Extensions
chrome	Windows File System	Browsing History
chrome	Windows File System	Download History
chrome	Windows File System	Form Data
chrome	Windows File System	Search Terms
chrome	Windows File System	Session
chrome	Windows File System	Synced Tabs
chrome	Windows File System	Top Sites
chrome	Windows Live	Bookmarks
chrome	Windows Live	Browser Cache
chrome	Windows Live	Browser Extensions
chrome	Windows Live	Browsing History
chrome	Windows Live	Download History
chrome	Windows Live	Form Data
chrome	Windows Live	Saved Credentials
chrome	Windows Live	Search Terms
chrome	Windows Live	Session
chrome	Windows Live	Synced Tabs
chrome	Windows Live	Top Sites
chromium	Android File System Complete	Bookmarks
chromium	Android File System Complete	Browser Cache
chromium	Android File System Complete	Browsing History
chromium	Android File System Complete	Download History
chromium	Android File System Complete	Form Data
chromium	Android File System Complete	Search Terms
chromium	Android File System Complete	Session
chromium	Android File System Complete	Synced Tabs
chromium	Android File System Complete	Top Sites
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chromium	iOS File System Complete	Browser Cache
chromium	iOS File System Complete	Browsing History
chromium	iOS File System Complete	Download History
chromium	iOS File System Complete	Form Data

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chromium	iOS File System Complete	Search Terms
chromium	iOS File System Complete	Session
chromium	iOS File System Complete	Synced Tabs
chromium	iOS File System Complete	Top Sites
chromium	iOS File System Limited	Bookmarks
chromium	iOS File System Limited	Browser Cache
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chromium	iOS File System Limited	Synced Tabs
chromium	iOS File System Limited	Top Sites
chromium	macOS File System	Bookmarks
chromium	macOS File System	Browser Cache
chromium	macOS File System	Browser Extensions
chromium	macOS File System	Browsing History
chromium	macOS File System	Download History
chromium	macOS File System	Form Data
chromium	macOS File System	Search Terms
chromium	macOS File System	Session
chromium	macOS File System	Synced Tabs
chromium	macOS File System	Top Sites
chromium	macOS Live	Bookmarks
chromium	macOS Live	Browser Cache
chromium	macOS Live	Browser Extensions
chromium	macOS Live	Browsing History
chromium	macOS Live	Download History
chromium	macOS Live	Form Data
chromium	macOS Live	Search Terms
chromium	macOS Live	Session
chromium	macOS Live	Synced Tabs
chromium	macOS Live	Top Sites
chromium	Windows File System	Bookmarks

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chromium	Windows File System	Browser Cache
chromium	Windows File System	Browser Extensions
chromium	Windows File System	Browsing History
chromium	Windows File System	Download History
chromium	Windows File System	Form Data
chromium	Windows File System	Search Terms
chromium	Windows File System	Session
chromium	Windows File System	Synced Tabs
chromium	Windows File System	Top Sites
chromium	Windows Live	Bookmarks
chromium	Windows Live	Browser Cache
chromium	Windows Live	Browser Extensions
chromium	Windows Live	Browsing History
chromium	Windows Live	Download History
chromium	Windows Live	Form Data
chromium	Windows Live	Search Terms
chromium	Windows Live	Session
chromium	Windows Live	Synced Tabs
chromium	Windows Live	Top Sites
discord	iOS File System Complete	Messages
discord	iOS File System Limited	Messages
discord	Windows File System	Messages
discord	Windows File System	Saved Contacts
discord	Windows Live	Messages
discord	Windows Live	Saved Contacts
dropbox	iOS File System Complete	Cloud Files
dropbox	iOS File System Limited	Cloud Files
edge	Android File System Complete	Bookmarks
edge	Android File System Complete	Browser Cache
edge	Android File System Complete	Browsing History
edge	Android File System Complete	Download History
edge	Android File System Complete	Form Data
edge	Android File System Complete	Search Terms
edge	Android File System Complete	Session

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edge	Android File System Complete	Synced Tabs
edge	Android File System Complete	Top Sites
edge	iOS File System Complete	Bookmarks
edge	iOS File System Complete	Browser Cache
edge	iOS File System Complete	Browsing History
edge	iOS File System Complete	Download History
edge	iOS File System Complete	Form Data
edge	iOS File System Complete	Search Terms
edge	iOS File System Complete	Session
edge	iOS File System Complete	Synced Tabs
edge	iOS File System Complete	Top Sites
edge	iOS File System Limited	Bookmarks
edge	iOS File System Limited	Browser Cache
edge	iOS File System Limited	Browsing History
edge	iOS File System Limited	Download History
edge	iOS File System Limited	Form Data
edge	iOS File System Limited	Search Terms
edge	iOS File System Limited	Session
edge	iOS File System Limited	Synced Tabs
edge	iOS File System Limited	Top Sites
edge	macOS File System	Bookmarks
edge	macOS File System	Browser Cache
edge	macOS File System	Browser Extensions
edge	macOS File System	Browsing History
edge	macOS File System	Download History
edge	macOS File System	Form Data
edge	macOS File System	Search Terms
edge	macOS File System	Session
edge	macOS File System	Synced Tabs
edge	macOS File System	Top Sites
edge	macOS Live	Bookmarks
edge	macOS Live	Browser Cache
edge	macOS Live	Browser Extensions
edge	macOS Live	Browsing History

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edge	macOS Live	Download History
edge	macOS Live	Form Data
edge	macOS Live	Search Terms
edge	macOS Live	Session
edge	macOS Live	Synced Tabs
edge	macOS Live	Top Sites
edge	Windows File System	Bookmarks
edge	Windows File System	Browser Cache
edge	Windows File System	Browser Extensions
edge	Windows File System	Browsing History
edge	Windows File System	Download History
edge	Windows File System	Form Data
edge	Windows File System	Search Terms
edge	Windows File System	Session
edge	Windows File System	Synced Tabs
edge	Windows File System	Top Sites
edge	Windows Live	Bookmarks
edge	Windows Live	Browser Cache
edge	Windows Live	Browser Extensions
edge	Windows Live	Browsing History
edge	Windows Live	Download History
edge	Windows Live	Form Data
edge	Windows Live	Saved Credentials
edge	Windows Live	Search Terms
edge	Windows Live	Session
edge	Windows Live	Synced Tabs
edge	Windows Live	Top Sites
facebook	Android File System Complete	Messages
facebook	Android File System Complete	Saved Contacts
facebook	iOS File System Complete	Messages
facebook	iOS File System Complete	Saved Contacts
facebook	iOS File System Limited	Messages
facebook	iOS File System Limited	Saved Contacts
facebook	macOS File System	Messages

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facebook	macOS File System	Saved Contacts
facebook	macOS Live	Messages
facebook	macOS Live	Saved Contacts
facebook	Windows File System	Messages
facebook	Windows File System	Saved Contacts
facebook	Windows Live	Messages
facebook	Windows Live	Saved Contacts
firefox	Android File System Complete	Bookmarks
firefox	Android File System Complete	Browser Cache
firefox	Android File System Complete	Browser Extensions
firefox	Android File System Complete	Browsing History
firefox	Android File System Complete	Download History
firefox	Android File System Complete	Form Data
firefox	Android File System Complete	Search Terms
firefox	Android File System Complete	Session
firefox	Android File System Complete	Synced Tabs
firefox	iOS File System Complete	Bookmarks
firefox	iOS File System Complete	Browser Cache
firefox	iOS File System Complete	Browsing History
firefox	iOS File System Complete	Form Data
firefox	iOS File System Complete	Search Terms
firefox	iOS File System Limited	Bookmarks
firefox	iOS File System Limited	Browser Cache
firefox	iOS File System Limited	Browsing History
firefox	iOS File System Limited	Search Terms
firefox	macOS File System	Bookmarks
firefox	macOS File System	Browser Cache
firefox	macOS File System	Browser Extensions
firefox	macOS File System	Browsing History
firefox	macOS File System	Download History
firefox	macOS File System	Form Data
firefox	macOS File System	Search Terms
firefox	macOS File System	Session
firefox	macOS File System	Synced Tabs

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firefox	macOS Live	Bookmarks
firefox	macOS Live	Browser Cache
firefox	macOS Live	Browser Extensions
firefox	macOS Live	Browsing History
firefox	macOS Live	Download History
firefox	macOS Live	Form Data
firefox	macOS Live	Search Terms
firefox	macOS Live	Session
firefox	macOS Live	Synced Tabs
firefox	Windows File System	Bookmarks
firefox	Windows File System	Browser Cache
firefox	Windows File System	Browser Extensions
firefox	Windows File System	Browsing History
firefox	Windows File System	Download History
firefox	Windows File System	Form Data
firefox	Windows File System	Search Terms
firefox	Windows File System	Session
firefox	Windows File System	Synced Tabs
firefox	Windows Live	Bookmarks
firefox	Windows Live	Browser Cache
firefox	Windows Live	Browser Extensions
firefox	Windows Live	Browsing History
firefox	Windows Live	Download History
firefox	Windows Live	Form Data
firefox	Windows Live	Search Terms
firefox	Windows Live	Session
firefox	Windows Live	Synced Tabs
gmail	Android File System Complete	Emails
gmail	iOS File System Complete	Emails
gmail	iOS File System Complete	Saved Contacts
gmail	iOS File System Limited	Emails
gmail	iOS File System Limited	Saved Contacts
googlecalendar	Android File System Limited	Calendar
googlecalendar	Android File System Limited	Saved Contacts

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googlechat	Android File System Complete	Messages
googlechat	Android File System Complete	Saved Contacts
googlechat	iOS File System Complete	Messages
googlechat	iOS File System Complete	Saved Contacts
googlecontacts	Android File System Complete	Saved Contacts
googlecontacts	Android File System Limited	Saved Contacts
googlemaps	Android File System Complete	Saved Locations
googlemessages	Android File System Complete	Messages
grindr	iOS File System Complete	Messages
grindr	iOS File System Complete	Saved Contacts
grindr	iOS File System Limited	Messages
grindr	iOS File System Limited	Saved Contacts
instagram	iOS File System Complete	Messages
instagram	iOS File System Complete	Saved Contacts
ios	iOS File System Complete	Application Permissions
ios	iOS File System Complete	Application Usage
ios	iOS File System Complete	Bluetooth Devices
ios	iOS File System Complete	Installed Applications
ios	iOS File System Complete	Location History
ios	iOS File System Complete	Network Usage
ios	iOS File System Complete	Reminders
ios	iOS File System Complete	Saved Credentials
ios	iOS File System Complete	Saved Locations
ios	iOS File System Complete	Saved Networks
ios	iOS File System Complete	Searched Locations
ios	iOS File System Complete	Trip History
ios	iOS File System Complete	Voicemail
ios	iOS File System Complete	WiFi Locations
ios	iOS File System Limited	Bluetooth Devices
ios	iOS File System Limited	Installed Applications
ios	iOS File System Limited	Network Usage
ios	iOS File System Limited	OS Information
ios	iOS File System Limited	Reminders
ios	iOS File System Limited	Saved Credentials

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ios	iOS File System Limited	Saved Networks
ios	iOS File System Limited	Voice Memos
ios	iOS File System Limited	Voicemail
ios	iOS File System Limited	WiFi Locations
ios	macOS File System	Installed Applications
ios	macOS File System	Reminders
ios	Windows File System	Installed Applications
ioscalendar	iOS File System Complete	Calendar
ioscalendar	macOS File System	Calendar
ioscalendar	macOS Live	Calendar
ioscalls	iOS File System Complete	Calls
ioscalls	iOS File System Limited	Calls
ioscontacts	iOS File System Limited	Saved Contacts
kikmessenger	Android File System Complete	Messages
kikmessenger	Android File System Complete	Saved Contacts
line	iOS File System Complete	Messages
line	iOS File System Complete	Saved Contacts
line	iOS File System Limited	Messages
line	iOS File System Limited	Saved Contacts
macos	macOS File System	Application Permissions
macos	macOS File System	Application Usage
macos	macOS File System	Installed Applications
macos	macOS File System	Network Interfaces
macos	macOS File System	OS Information
macos	macOS File System	Recent Files
macos	macOS File System	Saved Networks
macos	macOS File System	Terminal History
macos	macOS File System	User Accounts
macos	macOS File System	User Logins
macos	macOS Live	Application Permissions
macos	macOS Live	Application Usage
macos	macOS Live	Installed Applications
macos	macOS Live	Network Interfaces
macos	macOS Live	OS Information

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macos	macOS Live	Recent Files
macos	macOS Live	Saved Networks
macos	macOS Live	Terminal History
macos	macOS Live	User Accounts
macos	macOS Live	User Logins
macoscontacts	macOS File System	Saved Contacts
macoscontacts	macOS Live	Saved Contacts
mega	Windows File System	Cloud Files
mega	Windows Live	Cloud Files
opera	Android File System Complete	Bookmarks
opera	Android File System Complete	Browser Cache
opera	Android File System Complete	Browsing History
opera	Android File System Complete	Download History
opera	Android File System Complete	Form Data
opera	Android File System Complete	Search Terms
opera	Android File System Complete	Session
opera	Android File System Complete	Synced Tabs
opera	Android File System Complete	Top Sites
opera	iOS File System Complete	Bookmarks
opera	iOS File System Complete	Browser Cache
opera	iOS File System Complete	Browsing History
opera	iOS File System Complete	Download History
opera	iOS File System Complete	Form Data
opera	iOS File System Complete	Search Terms
opera	iOS File System Complete	Session
opera	iOS File System Complete	Synced Tabs
opera	iOS File System Complete	Top Sites
opera	iOS File System Limited	Bookmarks
opera	iOS File System Limited	Browser Cache
opera	iOS File System Limited	Browsing History
opera	iOS File System Limited	Download History
opera	iOS File System Limited	Form Data
opera	iOS File System Limited	Search Terms
opera	iOS File System Limited	Session

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opera	iOS File System Limited	Synced Tabs
opera	iOS File System Limited	Top Sites
opera	macOS File System	Bookmarks
opera	macOS File System	Browser Cache
opera	macOS File System	Browser Extensions
opera	macOS File System	Browsing History
opera	macOS File System	Download History
opera	macOS File System	Form Data
opera	macOS File System	Search Terms
opera	macOS File System	Session
opera	macOS File System	Synced Tabs
opera	macOS File System	Top Sites
opera	macOS Live	Bookmarks
opera	macOS Live	Browser Cache
opera	macOS Live	Browser Extensions
opera	macOS Live	Browsing History
opera	macOS Live	Download History
opera	macOS Live	Form Data
opera	macOS Live	Search Terms
opera	macOS Live	Session
opera	macOS Live	Synced Tabs
opera	macOS Live	Top Sites
opera	Windows File System	Bookmarks
opera	Windows File System	Browser Cache
opera	Windows File System	Browser Extensions
opera	Windows File System	Browsing History
opera	Windows File System	Download History
opera	Windows File System	Form Data
opera	Windows File System	Search Terms
opera	Windows File System	Session
opera	Windows File System	Synced Tabs
opera	Windows File System	Top Sites
opera	Windows Live	Bookmarks
opera	Windows Live	Browser Cache

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opera	Windows Live	Browser Extensions
opera	Windows Live	Browsing History
opera	Windows Live	Download History
opera	Windows Live	Form Data
opera	Windows Live	Saved Credentials
opera	Windows Live	Search Terms
opera	Windows Live	Session
opera	Windows Live	Synced Tabs
opera	Windows Live	Top Sites
safari	iOS File System Complete	Browser Cache
safari	iOS File System Complete	Search Terms
safari	iOS File System Complete	Session
safari	iOS File System Limited	Bookmarks
safari	iOS File System Limited	Browsing History
safari	iOS File System Limited	Download History
safari	iOS File System Limited	Search Terms
safari	iOS File System Limited	Session
safari	iOS File System Limited	Synced Tabs
safari	iOS File System Limited	Top Sites
safari	macOS File System	Bookmarks
safari	macOS File System	Browser Cache
safari	macOS File System	Browsing History
safari	macOS File System	Search Terms
safari	macOS Live	Bookmarks
safari	macOS Live	Browser Cache
safari	macOS Live	Search Terms
samsungnotes	Android File System Complete	Notes
signal	Android File System Complete	Messages
signal	Android File System Complete	Saved Contacts
signal	iOS File System Complete	Messages
signal	iOS File System Complete	Saved Contacts
signal	macOS File System	Messages
signal	macOS Live	Messages
signal	Windows File System	Messages

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signal	Windows Live	Messages
snapchat	Android File System Complete	Messages
snapchat	Android File System Complete	Saved Contacts
snapchat	iOS File System Complete	Messages
snapchat	iOS File System Complete	Saved Contacts
tango	iOS File System Complete	Calls
tango	iOS File System Complete	Messages
tango	iOS File System Complete	Saved Contacts
tango	iOS File System Limited	Calls
tango	iOS File System Limited	Messages
tango	iOS File System Limited	Saved Contacts
telegram	Android File System Complete	Calls
telegram	Android File System Complete	Messages
telegram	Android File System Complete	Saved Contacts
telegram	Android File System Limited	Calls
telegram	Android File System Limited	Messages
telegram	Android File System Limited	Saved Contacts
telegram	Android Live	Calls
telegram	Android Live	Messages
telegram	Android Live	Saved Contacts
telegram	iOS File System Complete	Calls
telegram	iOS File System Complete	Messages
telegram	iOS File System Complete	Saved Contacts
telegram	macOS File System	Calls
telegram	macOS File System	Messages
telegram	macOS File System	Saved Contacts
telegram	macOS Live	Calls
telegram	macOS Live	Messages
telegram	macOS Live	Saved Contacts
telegram	Windows File System	Messages
telegram	Windows Live	Messages
tiktok	Android File System Complete	Messages
tiktok	Android File System Complete	Saved Contacts
tiktok	iOS File System Complete	Messages

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tiktok	iOS File System Complete	Saved Contacts
tinder	iOS File System Complete	Messages
tinder	iOS File System Complete	Saved Contacts
tinder	iOS File System Limited	Messages
tinder	iOS File System Limited	Saved Contacts
torbrowser	Android File System Complete	Bookmarks
torbrowser	Android File System Complete	Browser Cache
torbrowser	Android File System Complete	Browsing History
torbrowser	Android File System Complete	Download History
torbrowser	Android File System Complete	Form Data
torbrowser	Android File System Complete	Search Terms
torbrowser	Android File System Complete	Session
torbrowser	Android File System Complete	Synced Tabs
torbrowser	macOS File System	Bookmarks
torbrowser	macOS File System	Browser Cache
torbrowser	macOS File System	Browsing History
torbrowser	macOS File System	Download History
torbrowser	macOS File System	Form Data
torbrowser	macOS File System	Search Terms
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torbrowser	macOS Live	Bookmarks
torbrowser	macOS Live	Browser Cache
torbrowser	macOS Live	Browsing History
torbrowser	macOS Live	Download History
torbrowser	macOS Live	Form Data
torbrowser	macOS Live	Search Terms
torbrowser	macOS Live	Session
torbrowser	macOS Live	Synced Tabs
torbrowser	Windows File System	Bookmarks
torbrowser	Windows File System	Browser Cache
torbrowser	Windows File System	Browsing History
torbrowser	Windows File System	Download History
torbrowser	Windows File System	Form Data

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torbrowser	Windows File System	Search Terms
torbrowser	Windows File System	Session
torbrowser	Windows File System	Synced Tabs
torbrowser	Windows Live	Bookmarks
torbrowser	Windows Live	Browser Cache
torbrowser	Windows Live	Browsing History
torbrowser	Windows Live	Download History
torbrowser	Windows Live	Form Data
torbrowser	Windows Live	Search Terms
torbrowser	Windows Live	Session
torbrowser	Windows Live	Synced Tabs
uber	iOS File System Complete	Saved Locations
utorrent	macOS File System	P2P Files Shared or Downloaded
utorrent	macOS Live	P2P Files Shared or Downloaded
utorrent	Windows File System	P2P Files Shared or Downloaded
utorrent	Windows Live	P2P Files Shared or Downloaded
viber	iOS File System Complete	Messages
viber	iOS File System Complete	Saved Contacts
viber	iOS File System Limited	Messages
viber	iOS File System Limited	Saved Contacts
vkontakte	macOS File System	Saved Contacts
vkontakte	macOS Live	Saved Contacts
vkontakte	Windows File System	Saved Contacts
vkontakte	Windows Live	Saved Contacts
waze	Android File System Complete	Searched Locations
waze	iOS File System Complete	Searched Locations
waze	iOS File System Limited	Searched Locations
whatsapp	Android File System Complete	Calls
whatsapp	Android File System Complete	Messages
whatsapp	Android File System Complete	Saved Contacts
whatsapp	Android File System Limited	Calls
whatsapp	iOS File System Complete	Calls
whatsapp	iOS File System Complete	Messages
whatsapp	iOS File System Complete	Saved Contacts

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whatsapp	iOS File System Limited	Calls
whatsapp	iOS File System Limited	Messages
whatsapp	iOS File System Limited	Saved Contacts
windows	Windows File System	Application Permissions
windows	Windows File System	Bluetooth Devices
windows	Windows File System	Clipboard History
windows	Windows File System	Installed Applications
windows	Windows File System	Network Interfaces
windows	Windows File System	Notifications
windows	Windows File System	OS Information
windows	Windows File System	Recent Files
windows	Windows File System	Saved Networks
windows	Windows File System	Terminal History
windows	Windows Live	Application Permissions
windows	Windows Live	Bluetooth Devices
windows	Windows Live	Clipboard History
windows	Windows Live	Encrypted Drive
windows	Windows Live	Installed Applications
windows	Windows Live	Network Interfaces
windows	Windows Live	Notifications
windows	Windows Live	OS Information
windows	Windows Live	Recent Files
windows	Windows Live	Saved Networks
windows	Windows Live	Terminal History
zangi	Android File System Complete	Calls
zangi	Android File System Complete	Messages
zangi	Android File System Complete	Saved Contacts
zangi	iOS File System Complete	Calls
zangi	iOS File System Complete	Messages
zangi	iOS File System Complete	Saved Contacts
zangi	iOS File System Limited	Messages

Scan Limitations

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Some limitations are in place to prevent the application from running out of resources during the scan. For most of these limits, a message is added to the scan log when the limit is reached.

- When using the “thorough” file type identification method, documents that are bigger than 100MB will be detected as zip files if these documents are zip based (such as docx, xlsx, pptx, OpenDocument and iWork files). No message is added to the scan log.
- Files that take longer than the time set in the Search Profile to process are skipped (see Failover Capability). The time spent on all the files inside a container is not limited: each file inside the container has its own time limit.
- When the Search Profile is set to collect protected files, files that crashed the parsers or files skipped because of the time limit, only files smaller than 2GB are collected. Larger files are not collected, and no message is added to the scan log.
- Scanning a running 32-bit Windows computer from the Collection Key is no longer supported: use the remote agent (Windows 8 or newer). Here are some workarounds.
- Containers nested more than 20 levels deep are not opened.
- Only the first 50 matches of each keyword in a file are recorded.
- When a folder is scanned, files stored only in the cloud (for example OneDrive files that are not downloaded) are not read.

Known Issues

Topic	Issue
Collection Key Preparation	When using a BitLocker locked Collection Key, the application cannot detect scan results that have not been backed up. Make sure to unlock your Collection Key before preparing it again!
Collection Key Preparation	It is not possible to rebuild the boot image of the Collection Key if the system volume of your computer is compressed, because the virtual disk (VHD) used to build it cannot be created on a compressed volume. The boot image is rebuilt only after drivers have been added to the WinPE image. The only workaround is to remove the compression setting for that volume.
Collection Key Preparation	Software write blockers can prevent the preparation of the Collection Key and should be disabled prior to creating a key.
Collection Key Preparation	Anti-virus can prevent the preparation of the Collection Key and should be disabled prior to creating a key.
Bitlocker protected target	When unlocking a BitLocker partition, if the passphrase fails, try using the Recovery Key.
Network drive access	If a mounted network drive is not visible in the ADF application, it is because the application is executed in an elevated context but the network drive was not mounted in the same context. Make sure the network drives you try to access are mapped in an elevated context as well. See this page for details.

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Video playback	Videos and audio files are played with the FFmpeg libraries included in the application, so no additional codecs need to be installed.
Viewer thumbnail size	The thumbnails are 160 pixels by default. If they look too small on a 4K monitor, use the Zoom button of the Viewer toolbar to make them bigger.
macOS	In some instances, the Apple Operating System installation date may be incorrect.
macOS Sonoma Recovery Mode not seeing the Collection Key	In Recovery Mode, the Collection Key which is formatted with NTFS and contains the Mac agent is not mounted. To avoid this issue, you can copy the agent to a FAT flash drive. After preparing a Collection Key, copy the startMacOSAgent and the Mac folder to the flash drive.
APFS	Carving pictures from unallocated space is not yet supported on APFS.
APFS	Timezone is not identified from APFS partitions: the time zone found on another scanned partition is used, otherwise the time zone of the computer running the scan (UTC when scanning in boot mode).
Crash at startup	If the Desktop application crashes immediately after starting, it is possible that some cached files got corrupted. In this case, delete the folder C:\Users\<NAME>\AppData\Local\ADF Solutions Inc\ADF Digital Evidence Investigator\cache (ADF PRO and DEI) or C:\Users\<NAME>\AppData\Local\ADF Solutions Inc\ADF Mobile Device Investigator\cache (MDI). Do not delete the other files of the ADF Digital Evidence Investigator or ADF Mobile Device Investigator folder: they contain your settings.
Multivolume archives	Multivolume archives are currently not supported.
Touch screen	To avoid having the touch keyboard appear when a new screen is displayed make sure you are not in Windows Tablet mode and make sure this setting is off: Settings > Devices > Typing > Show the touch keyboard when not in tablet mode and there's no keyboard attached. On Windows 11: Settings > Time & language > Typing > Touch keyboard > Show the touch keyboard: Never.
iOS device phone number	Make sure the latest version of the Apple Devices app (or iTunes) is installed (see ADF Smartphone Driver Pack and Apple Devices Installation in the guide Installing the ADF Application), or the phone number of the device may not be collected by the Device Information Capture.
Unreadable error messages in the Desktop application	Some error messages in the Desktop application may be unreadable when Windows is using a different language than English. To solve this issue, open the Windows Settings and search for "region settings". Click on the "Administrative language settings" > "Change system locale…" and check the "Beta: Use Unicode UTF-8 for worldwide language support" checkbox.
iOS Screen Capture	If the iOS device shows "Unable to connect to "ADF [<computer name>]"", make sure Windows Defender Firewall allows the ADF application (adf.exe) on the network in use,

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	Private or Public. Changing the firewall rules requires an administrator account.

Open-Source Libraries

The ADF applications use the open source libraries listed in the table below.

Name	Version	Source URL	License
7-Zip	26.01	https://www.7-zip.org/	GNU LGPL with the unRAR restriction
Abseil	20260107.1	https://github.com/abseil/abseil-cpp	Apache License 2.0
AFF4 CPP Lite	2.0.6	https://github.com/aff4/aff4-cpp-lite	LGPLv3+
airplay2-win	2020 snapshot	https://github.com/fingergit/airplay2-win	MIT License
Android Debug Bridge (platform-tools)	33.0.3	https://developer.android.com/tools/releases/platform-tools	Apache License 2.0
ANGLE	built with Qt 5.12.2	https://chromium.googlesource.com/angle/angle	BSD 3-Clause
better-enums	0.11.1	https://github.com/aantron/better-enums	BSD 2-Clause
Boost	1.91.0	https://www.boost.org/	Boost Software License 1.0
c-ares	1.34.6	https://c-ares.org/	MIT License
curl	7.81.0	https://curl.se/	curl License
FFmpeg	8.1 (6.1.1 for the AirPlay receiver)	https://ffmpeg.org/	LGPL 2.1 or later
FreeImage	3.17.0	https://freeimage.sourceforge.io/	FreeImage Public License
gRPC	1.76.0	https://github.com/grpc/grpc	Apache License 2.0
GSL (Microsoft Guidelines Support Library)	2016 snapshot	https://github.com/microsoft/GSL	MIT License
ICU	78.3 (59.1 for libxml2)	https://icu.unicode.org/	Unicode License
inih	r62	https://github.com/benhoyt/inih	BSD 3-Clause
jni.hpp (Mapbox)	4.0.0	https://github.com/mapbox/jni.hpp	ISC License
Leptonica	1.87.0	http://www.leptonica.org/	BSD 2-Clause

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libaeskeywrap (AESKeyWrap)	2015	https://github.com/paulej/AESKeyWrap	MIT License
libbde	20190102	https://github.com/libyal/libbde	LGPLv3+
libbfio	20170123	https://github.com/libyal/libbfio	LGPLv3+
libde265	1.0.18	https://github.com/strukturag/libde265	LGPLv3
libesedb	20170121	https://github.com/libyal/libesedb	LGPLv3+
libEtPan! (IMF parser)	2011 source	https://github.com/dinhvh/libetpan	BSD 3-Clause
libevtx	20160107	https://github.com/libyal/libevtx	LGPLv3+
libewf	20160424	https://github.com/libyal/libewf	LGPLv3+
libfvde	20191221	https://github.com/libyal/libfvde	LGPLv3+
libfwnt	20260602	https://github.com/libyal/libfwnt	LGPLv3+
libheif	1.21.2	https://github.com/strukturag/libheif	LGPLv3
libimobiledevice	1.3.0 (Git build, 2023)	https://github.com/libimobiledevice/libimobiledevice	LGPL v2.1+
libimobiledevice-glue	1.0 (Git build, 2023)	https://github.com/libimobiledevice/libimobiledevice-glue	LGPL v2.1+
liblnk	20181227	https://github.com/libyal/liblnk	LGPLv3+
libmsiecf	20160421	https://github.com/libyal/libmsiecf	LGPLv3+
libolecf	20160107	https://github.com/libyal/libolecf	LGPLv3+
libplist	2.3.0 (Git build, 2023)	https://github.com/libimobiledevice/libplist	LGPL v2.1+
libregf	20150704	https://github.com/libyal/libregf	LGPLv3+
libscca (sccainfo)	Git build 04b2746	https://github.com/libyal/libscca	LGPLv3+
libtorrent (bdecode)	2016 source	https://github.com/arvidn/libtorrent	BSD 3-Clause
libusbmuxd	2.0.3 (Git build, 2021)	https://github.com/libimobiledevice/libusbmuxd	LGPL v2.1+
libvhdi	20170223	https://github.com/libyal/libvhdi	LGPLv3+
libvmdk	20170226	https://github.com/libyal/libvmdk	LGPLv3+
libxml2	2.9.4	https://gitlab.gnome.org/GNOME/libxml2	MIT License
magic_enum	0.6.4	https://github.com/Neargye/magic_enum	MIT License

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mdns	Git build, modified by ADF	https://github.com/mjansson/mdns	Public Domain
minizip	1.2.0	https://github.com/zlib-ng/minizip-ng/tree/1.2	zlib License
minizip-ng	4.1.0	https://github.com/zlib-ng/minizip-ng	zlib License
nlohmann/json	3.12.0	https://github.com/nlohmann/json	MIT License
ODB runtime	2.5.0.a1 (pre-release)	https://www.codesynthesis.com/products/odb/	GNU GPL v2 or commercial licence
ONNX Runtime	1.23.2	https://github.com/microsoft/onnxruntime	MIT License
OpenImageIO	3.1.12.0	https://github.com/AcademySoftwareFoundation/OpenImageIO	Apache License 2.0
OpenSSL	3.6.2 (3.0.1 inside curl.exe)	https://www.openssl.org/	Apache License 2.0
PaddleOCR models (via RapidOCR)	RapidOCR 3.9.2 (PP-OCRv6 detection, PP-OCRv5 recognition)	https://github.com/RapidAI/RapidOCR	Apache License 2.0
Protocol Buffers	6.33.4	https://github.com/protocolbuffers/protobuf	BSD 3-Clause
Python (Artifact Processing Service)	3.14.0	https://www.python.org/	Python Software Foundation License 2.0
Qt	6.10.2	https://www.qt.io/	LGPLv3
RapidJSON	1.1.0 (Git snapshot 2025-02-26)	https://rapidjson.org/	MIT License
Raptor RDF Syntax Library	2.0.15	https://librdf.org/raptor/	LGPL 2.1+, GPL 2+ or Apache License 2.0
RCF (Remote Call Framework)	2.2.0	Delta V Software (website no longer available)	GNU GPL v2 or commercial licence
RE2	2025-11-05	https://github.com/google/re2	BSD 3-Clause
Realm Core	5.23.5	https://github.com/realm/realm-core	Apache License 2.0
serd	0.30.4	https://drobilla.net/software/serd	ISC License
Snappy	1.1.7	https://github.com/google/snappy	BSD 3-Clause
SQLite	3.53.0	https://www.sqlite.org/	Public Domain

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TensorFlow	1.6.0	https://github.com/tensorflow/tensorflow	Apache License 2.0
The Sleuth Kit	4.12.1	https://www.sleuthkit.org/sleuthkit/	IBM Public License 1.0 and Common Public License 1.0
uriparser	0.8.2	https://uriparser.github.io/	New BSD License
WinPmem	2.0.1 (October 2020)	https://github.com/Velocidex/WinPmem	Apache License 2.0
yaml-cpp	0.9.0	https://github.com/jbeder/yaml-cpp	MIT License
zlib	1.3.2 (1.2.11 for some libraries)	https://www.zlib.net/	zlib License

RAID Support

When a computer is booted from the Collection Key, the ADF tools can access the RAID volumes that the drivers of the boot environment expose. The boot environment is Windows PE build 10.0.28000.1 (Windows ADK 10.1.28000.1), for x64 and ARM64 computers.
On x64 computers, the boot environment includes the storage and RAID controller drivers that are part of Windows PE (for example Broadcom/LSI MegaRAID and SAS, Dell PERC, HPE Smart Array, Microchip Adaptec SmartRAID, AMD SATA, NVMe and AHCI controllers) and the following additional drivers:

- Intel Rapid Storage Technology (RST/RSTe, Optane, VMD and VROC) for Intel chipset SATA AHCI, SATA RAID and NVMe RAID controllers
- AMD RAID (SATA and NVMe RAID)
- Newer Broadcom MegaRAID, MPI3 and SAS HBA drivers, which add, for example, Dell PERC H350, H355 and H750 and older LSI MegaRAID, Intel RAID (SRCSAS, SROMBSAS) and IBM ServeRAID-MR10 controllers
- Apple Boot Camp drivers for the internal keyboard, trackpad and SSD of Intel-based Macs

On ARM64 computers, the boot environment includes only the drivers that are part of Windows PE (NVMe, AHCI, UFS, SD and USB storage), and no RAID controller drivers.

If a RAID controller is not detected, add its Windows driver to the boot image (see Adding Drivers to the WinPE Image in the guide Rebooting a Computer).

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