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Here you will find current and prior versions of AirID related drivers, SDKs, firmware and links to App stores and online portals.



AirID Driver & SDK

Choose your platform:



Windows



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iOS



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Linux



AirID Firmware

Choose your product:



AirID 2 Business



AirID 2 Government



AirID 2 Mini Business



AirID 2 Mini Government



AirID 2 Beta Firmware

AirID 1 Business

AirID 1 Government

AirID Bridge



AirID Driver & SDK



Windows

Driver & SDK	Description	Version	Release Notes	Supported OS Platform	File	Checksum (SHA256)
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AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7)	210906	<p>Main Changes Management of AirID mini FIDO devices</p> <p>AirID Central: 1.2.3</p> <p> Improvements & Changes</p> <ul style="list-style-type: none"> Failed firmware updates will be run again after some timeout Device descriptor displays additional information such as FIDO and ResidentKeys Manage FIDO devices (A2MF...) <ul style="list-style-type: none"> Management of device functions: <ul style="list-style-type: none"> Settings Firmware Update Bonded Devices Battery Management ... No card Access through SmartCardReader driver Driverless communication Fixed a rare bug resulting in "unsupported" IOCTLs <p>AirID Driver: 1.0.7</p> <p> Improvements & Changes</p> <ul style="list-style-type: none"> Added short wait to make sure cards are unpowered after coldreset Disambiguated log entries Create registry entries for driverless central features 	Windows 7, 8.1, 10 (32 & 64 bit)	AirID-Installer-210906.exe AirID-Installer-210906-fr.exe AirID-Setup-210906-x64.msi AirID-Setup-210906-x86.msi AirIDSmartCardReader-x64-1.0.7.zip AirIDSmartCardReader-x86-1.0.7.zip	AirID-Installer-210906.exe.sha2_256 AirID-Installer-210906-fr.exe.sha2_256 AirID-Setup-210906-x64.msi.sha2_256 AirID-Setup-210906-x86.msi.sha2_256 AirIDSmartCardReader-x64-1.0.7.zip.sha2_256 AirIDSmartCardReader-x86-1.0.7.zip.sha2_256
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Prior versions

Driver & SDK	Description	Version	Release Notes	Supported OS Platform	File	Checksum (SHA256)
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<p>AirID Installer for Windows</p>	<p>AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7)</p>	<p>210512</p>	<p>Main Changes Logfile export and System Battery Warnings</p> <p>AirID Central: 1.2.1</p> <p>+ New Functions</p> <ul style="list-style-type: none"> • Export logfiles <ul style="list-style-type: none"> • Logfiles can be exported within the logview (tray-icon) • Driver logging can be enabled /disabled (requires system reboot) • The export location can be selected resulting in a single zip-file • Device descriptor values are written to logfile • Battery Warnings <ul style="list-style-type: none"> • A battery warning level can be configured by clicking on the battery • Windows system notifications are triggered once when the value is exceeded until the battery is fully charged • Warning level is indicated by ruled area within the battery symbol <p>✓ Improvements & Changes</p> <ul style="list-style-type: none"> • Failed firmware updates will be run again after some timeout • Device descriptor displays additional information such as FIDO and ResidentKeys <p>✓ Fixed</p> <ul style="list-style-type: none"> • A regression where OTA and USB flashing modes were mismatched • parsing of firmware xml files now ignores case sensitivity • file system related crash of the central <p>AirID Driver: 1.0.4</p> <p>✓ Improvements & Changes</p> <ul style="list-style-type: none"> • Added support for Firmware 2.0.0+ (excluding FIDO only) 	<p>Windows 7, 8.1, 10 (32 & 64 bit)</p>	<p>AirID-Installer-210512.exe AirID-Installer-210512-fr.exe AirID-Setup-210512-x64.msi AirID-Setup-210512-x86.msi AirIdSmartCardReader-x64-1.0.4.zip AirIdSmartCardReader-x86-1.0.4.zip</p>	<p>AirID-Installer-210512.exe.sha2_256 AirID-Installer-210512-fr.exe.sha2_256 AirID-Setup-210512-x64.msi.sha2_256 AirID-Setup-210512-x86.msi.sha2_256 AirIdSmartCardReader-x64-1.0.4.zip.sha2_256 AirIdSmartCardReader-x86-1.0.4.zip.sha2_256</p>
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<p>AirID Installer for Windows</p>	<p>AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7)</p>	<p>210325</p>	<p>Main Changes Added Over-The-Air (OTA) AirID firmware update function</p> <p>AirID Central: 1.2.0</p> <p>+ New Functions</p> <ul style="list-style-type: none"> Over-The-Air (OTA) AirID firmware update function <ul style="list-style-type: none"> AirID firmware update includes download from AirID update server and wireless transfer via BLE to AirID device AirID1 and AirID2 hardware revision lower than 1.1.0 are not updateable Over-The-Air <p>✓ Improvements & Changes</p> <ul style="list-style-type: none"> Firmware Changelog will be displayed before update Application log will not bother the user by popping up General AirID firmware update function <ul style="list-style-type: none"> The system Proxy is used for downloading the update Firmware update can be called manually by clicking the update icon Firmware update will be triggered on connection and once every 24 hours automatically <p>✓ Fixed</p> <ul style="list-style-type: none"> A bug where closing the Update-Window caused problems <p>– Removed Functionality</p> <ul style="list-style-type: none"> Offline updates are removed for AirID2 "Skip this version" during firmware update has been removed <p>AirID Driver: 1.0.3 (no update)</p> <p>✓ Improvements & Changes</p> <ul style="list-style-type: none"> Fixed forwarding settings to Central Fixed some minor code issues Added support for displaying AirID driver version 	<p>Windows 7, 8.1, 10 (32 & 64 bit)</p>	<p>AirID-Installer-210325.exe AirID-Installer-210325-fr.exe</p> <p>AirID-Setup-210325-x64.msi AirID-Setup-210325-x86.msi</p> <p>AirIdSmartCardReader-1.0.3-x64.zip AirIdSmartCardReader-1.0.3-x86.zip</p>	<p>AirID-Installer-210325.exe.sha2_256 AirID-Installer-210325-fr.exe.sha2_256 AirID-Setup-210325-x64.msi.sha2_256 AirID-Setup-210325-x86.msi.sha2_256 AirIdSmartCardReader-1.0.3-x64.zip.sha2_256 AirIdSmartCardReader-1.0.3-x86.zip.sha2_256</p>
<p>AirID Installer for Windows</p>	<p>AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7)</p>	<p>201221</p>	<p>Release Notes</p> <p>Main Changes</p> <p>Hotfix for the Central Update Process</p> <p>General</p> <p>AirID Driver: 1.0.3</p> <ul style="list-style-type: none"> Updated AirID Driver to version 1.0.3 Fixed forwarding settings to Central Fixed some minor code issues added support for displaying AirID driver version <p>AirID Central: 1.1.1</p> <ul style="list-style-type: none"> Fixed: AirID will not be reset when firmware is updated <p>In case the Firmware update does not proceed, unplug and plug in the USB cable. Furthermore, it is recommended to use the shipped USB cable.</p>	<p>Windows 7, 8.1, 10 (32 & 64 bit)</p>	<p>AirID-Installer-201221.exe AirID-Installer-201221-fr.exe</p> <p>AirID-Setup-201221-x64.msi AirID-Setup-201221-x86.msi</p> <p>AirIdSmartCardReader-1.0.3-x64.zip AirIdSmartCardReader-1.0.3-x86.zip</p>	<p>AirID-Installer-201221.exe.sha2_256 AirID-Installer-201221-fr.exe.sha2_256 AirID-Setup-201221-x64.msi.sha2_256 AirID-Setup-201221-x86.msi.sha2_256 AirIdSmartCardReader-1.0.3-x64.zip.sha2_256 AirIdSmartCardReader-1.0.3-x86.zip.sha2_256</p>

AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7)	200824	<p>Release Notes</p> <p>Main Changes</p> <p>Beside the full installer containing Firmware, Driver and Central we finally provide the AirID Driver as a separate MSI installer and as a ZIP/INF based installer</p> <p>General</p> <ul style="list-style-type: none"> • added French localization to Installer • provide AirID Driver as a separate MSI installer • Provide AirID Driver as a separate ZIP/INF based installer <p>Driver: 1.0.1</p> <ul style="list-style-type: none"> • Updated Driver to Version 1.0.1 • Fixed forwarding settings to Central • Fixed some minor code issues <p>Central: 1.0.1</p> <ul style="list-style-type: none"> • added french UI Translation • updated firmware update to 1.4.0 for AirID2, AirID2 Mini Business (BUS) • added firmware update to 1.4.0 for AirID2, AirID2 Mini Government • removed legacy code and resources <p>This Central version may reset the bluetooth connection after doing a Firmware update In case the Firmware update does not proceed, unplug and plug in the USB cable. Furthermore, it is recommended to use the shipped USB cable.</p>	Windows 7, 8.1, 10 (32 & 64 bit)	<p>AirID-Installer-200824.exe</p> <p>AirID-Installer-200824-fr.exe</p> <p>AirID-Driver-Setup-1.0.1-x64.msi</p> <p>AirID-Driver-Setup-1.0.1-x86.msi</p> <p>AirIdSmartCardReader-1.0.1-x64.zip</p> <p>AirIdSmartCardReader-1.0.1-x86.zip</p>	<p>AirID-Installer-200824.exe.sha2_256</p> <p>AirID-Installer-200824-fr.exe.sha2_256</p> <p>AirID-Driver-Setup-1.0.1-x64.msi.sha2_256</p> <p>AirID-Driver-Setup-1.0.1-x86.msi.sha2_256</p> <p>AirIdSmartCardReader-1.0.1-x64.zip.sha2_256</p> <p>AirIdSmartCardReader-1.0.1-x86.zip.sha2_256</p>
AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7)	200811	<p>Release Notes</p> <p>Main Changes</p> <p>Beside the full installer containing Firmware, Driver and Central we finally provide the AirID Driver as a separate MSI installer and as a ZIP/INF based installer</p> <p>General</p> <ul style="list-style-type: none"> • added French localization to Installer • provide AirID Driver as a separate MSI installer • Provide AirID Driver as a separate ZIP/INF based installer <p>Driver: 1.0.0</p> <ul style="list-style-type: none"> • Updated Driver to Version 1.0.0 • Fixed forwarding settings to Central • Fixed some minor code issues <p>Central: 1.0.0.4</p> <ul style="list-style-type: none"> • added french UI Translation • updated firmware update to 1.4.0 for AirID2, AirID2 Mini Business (BUS) • added firmware update to 1.4.0 for AirID2, AirID2 Mini Government • removed legacy code and resources <p>In case the Firmware update does not proceed, unplug and plug in the USB cable. Furthermore, it is recommended to use the shipped USB cable.</p>	Windows 7, 8.1, 10 (32 & 64 bit)	<p>Attention</p> <p> The current distribution of the file caused some problems therefore we're currently working on a solution.</p>	

AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7)	200415	<p>Release Notes</p> <p>General</p> <ul style="list-style-type: none"> signed with new certificate valid until 2022 removed OpenSC from installer <p>Driver: 0.9.11.6</p> <ul style="list-style-type: none"> signed with new certificate valid until 2022 <p>Central: 1.0.0.2</p> <ul style="list-style-type: none"> added Tutorial for easy setup updated firmware update to 1.3.1 for AirID2, AirID2 Mini business added firmware update to 1.3.1 for AirID2, AirID2 Mini government removed legacy code and resources signed with new certificate valid until 2022 <p>In case the Firmware update does not proceed, unplug and plug in the USB cable. Furthermore, it is recommended to use the shipped USB cable.</p>	Windows 7, 8.1, 10 (32 & 64 bit)	AirID-Installer-200415.exe	AirID-Installer-200415.exe.sha2_256
AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7), and Middleware OpenSC	1.0.24.6	<p>Installer contains:</p> <p>Driver: 0.9.11.5</p> <ul style="list-style-type: none"> Fixed driver crashes <p>Central: 0.9.24</p> <ul style="list-style-type: none"> Fixed bug related to flash A2 <p>includes FW updates:</p> <ul style="list-style-type: none"> AirID1 Business 1.2.4-GA AirID1 Government 1.3.4-GA AirID2 Business 1.2.1-GA AirID2 Mini Business 1.2.1-GA <p>OpenSC v 0.20.0.6</p> <p>In case the Firmware update does not proceed, unplug and plug in the USB cable. Furthermore, it is recommended to use the shipped USB cable.</p>	Windows 7, 8.1, 10 (32 & 64 bit)	AirID-Installer-191122.exe	AirID-Installer-191122.exe.sha2_256
AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7), and Middleware OpenSC	1.0.23.2	<p>Installer contains:</p> <ul style="list-style-type: none"> AirID Driver 0.9.10 AirID Central v 0.9.23 <p>improved:</p> <ul style="list-style-type: none"> Removed "Backlight" setting for AirID 2 Mini Removed "Settings" and "Change PIN" from AirID Central menu (right click in Windows notification area) <p>includes FW updates:</p> <ul style="list-style-type: none"> AirID1 Business 1.2.4-GA AirID1 Government 1.3.4-GA AirID2 Business 1.1.1-GA AirID2 Mini Business 1.1.1-GA <ul style="list-style-type: none"> OpenSC v 0.20.0.6 <p>Known issues:</p> <ul style="list-style-type: none"> Switching off and on BLE in the Windows settings might cause connection and driver issues 	Windows 7, 8.1, 10 (32 & 64 bit)	AirID-Installer-190917.exe	AirID-Installer-190917.exe.sha2_256

AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7), and Middleware OpenSC	1.0.22	<ul style="list-style-type: none"> UI design <p>Installer contains:</p> <ul style="list-style-type: none"> AirID Driver 0.9.10 AirID Central v 0.9.22 <p>new:</p> <ul style="list-style-type: none"> support AirID 2 Mini (identifier, graphic, settings, etc.) <ul style="list-style-type: none"> added graphic for AirID 2 added graphic for AirID 1 with certgate Layout show currelty used encryption standard (AES 256 / 128) instead of showing configured encryption standard (Force 256 bit > Yes / No) <p>improved:</p> <ul style="list-style-type: none"> improved filter and sort AirID Bridge search results <ul style="list-style-type: none"> removed built information for FW <p>fixed:</p> <ul style="list-style-type: none"> signal strength setting with 4 bars for AirID 2 and AirID 2 Mini <p>includes FW updates:</p> <ul style="list-style-type: none"> AirID 1 Business 1.2.4-GA AirID 1 Government 1.3.4-GA AirID 2 Business 1.0.3-GA <p>Known limitations:</p> <ul style="list-style-type: none"> The Windows device manager currently shows v0.9.0.0 instead of v0.9.10. Switching off and on BLE in the Windows settings might cause connection and driver issues 	Windows 7, 8.1, 10 (32 & 64 bit)	AirID-Installer-190607.zip	AirID-Installer-190607.zip.sha2_256
AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7), and Middleware OpenSC	1.0.21	<p>Contains:</p> <ul style="list-style-type: none"> Central 0.9.21 Driver 0.9.9 FW AID2-FW-1.0.3-GA <p>Fixed:</p> <ul style="list-style-type: none"> Scaling issue in Central Issue with device descriptor regarding long FW names Request during installation with Win 7 <p>Improved:</p> <ul style="list-style-type: none"> Firmware distribution in Central for AirID1 BUS/GOV and AirID2 BUS 	Windows 7, 8.1, 10 (32 & 64 bit)	AirID-Installer-1.0.21.zip	AirID-Installer-1.0.21.zip.sha2_256
AirID Installer for Windows	AirID Central and Driver installation for Windows, Winusbcompat (Bridge Win7), and Middleware OpenSC	1.0.20.0	<ul style="list-style-type: none"> changed default: OpenSC will not be installed changed default: Winusbcompat will be installed on Win7 removed: Auto-Lock Feature updated: central 0.9.19 -> 0.9.20 <ul style="list-style-type: none"> fixed: bug related to scaling 	Windows 7, 8.1, 10 (32 & 64 bit)	AirID-Installer-1.0.20.0.exe.zip	AirID-Installer-1.0.20.0.exe.zip.sha2_256



APPLE MacOS INFORMATION PAGE AVAILABLE



Please check our [Information page "AirID & Smart Card @ MacOS"](#) to receive valuable information about MacOS & smart card integration!

Driver & SDK	Description	Version	Release Notes	Supported OS Platform	File	Checksum (SHA256)
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AirID BLE Software for MacOS	AirID BLE Software for MacOS to connect AirID & AirID Mini with MacOS systems via Bluetooth LE	1.2.1-GA Build 1.2.1.36	<p>release contains</p> <ul style="list-style-type: none"> AirID BLE IFD Handler v1.2.1-GA, Build 1.2.1.36 (PC/SC IFD Handler) macOS AirID Driver v1.2.1-GA Build 1.2.1.36 (Driver for AirID BLE connection) AirIDMacCentral v1.2.0-GA, Build 1.2.0.32 (UI program for selecting/changing AirID) <p>The main changes for this release is the long awaited Apple Silicon / M1 support for macOS.</p> <p>Please <i>note</i> that this release fully supports Apple Silicon (ARM64) and Apple Intel (x86_64) platforms for our PC/SC IFD Handler and Driver.</p> <p>The included AirID Central app is still compiled as an Intel App but should work out of the box with Apple Silicon based systems thanks to Apple Rosetta2 Translation Services</p> <h3>Fixes & Additions in this release</h3> <ul style="list-style-type: none"> IFD: Finally our IFD Handler for the macOS internal PC/SC Daemon is now provided as an Universal App plugin for x86_64 and arm64 platforms. IFD: reworked the way code signing and notarization was done. This was required for successfully working on macOS Big Sur. IFD: Still working on updating the package build process to provide Apple Silicon binaries IFD: The command line program "/usr/local/bin/set-airid-addr" is now a Universal App and correctly code signed and notarized by DeveloperID. <h3>Known Issues</h3> <ul style="list-style-type: none"> The AirIDCentral application for macOS is still intel only but works with Rosetta2 on Apple Silicon based systems AirID 2.0.0 Beta firmware can only be updated manually for now 	<ul style="list-style-type: none"> macOS Big Sur starting from 11.2 macOS Catalina 10.15.7 	AirID-BLE-Software-for-MacOS-1.2.1.36.pkg	AirID-BLE-Software-for-MacOS-1.2.1.36.pkg.sha2_256
AirID CCID-USB Software for MacOS	AirID CCID-USB Software for MacOS to connect AirID & AirID Mini with MacOS (Mojave only) via USB	1.4.31	<p>Contains:</p> <ul style="list-style-type: none"> libccid 1.4.31 repackaged to include only certgate AirID based USB product VID/PID Installer signed with certgate Apple Developer ID certificate Installer Apple notarized 	<p>MacOS 10.13+ to 10.14.6 (Mojave)</p> <p>This package is not required on MacOS 10.15 (Catalina). MacOS 10.15 (Catalina) includes libccid 1.4.31 already.</p>	ifd-airid-ccid-1.4.31.pkg	ifd-airid-ccid-1.4.31.pkg.sha2_256

Prior versions

Driver & SDK	Description	Version	Release Notes	Supported OS Platform	File	Checksum (SHA256)
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AirID BLE Software for macOS	AirID BLE Software for macOS to connect AirID & AirID Mini with macOS systems via Bluetooth LE	1.2.0-GA Build 1.2.0.32	<p>release contains</p> <ul style="list-style-type: none"> AirID BLE IFD Handler v1.2.0-GA, Build 1.2.0.32 (Driver for AirID BLE connection) AirIDMacCentral v1.2.0-GA, Build 1.2.0.32 (UI program for selecting/changing AirID) <p>The main changes for this release is the long awaited macOS Big Sur support starting from macOS Big Sur 11.2 Beta2. Apple did its job and fixed all outstanding issues which prevented the usage of our AirID Software for macOS with macOS Big Sur.</p> <p>Please <i>note</i> that this release currently only support Apple Intel platforms for our PC/SC IFD Handler (Driver). The AirID Central should work out of the box with Apple Silicon based systems thanks to Apple Rosetta2 Translation Services but we did not test it yet.</p> <p>The AirID BLE Software for macOS 1.2.0.32 / 1.2.0-GA is considered as the final 1.2.0-GA Release.</p> <p>We are working in parallel and hard to bring Apple Silicon support / Universal App support to our macOS software in the next weeks.</p> <p>We will do that in a new separate Release targeted at 1.2.1-GA</p> <p>Stay tuned to that.</p> <h3>Fixes & Additions in this release</h3> <ul style="list-style-type: none"> IFD: Finally our IFD Handler for the macOS internal PC/SC Daemon is now working again starting from macOS Big Sur 11.2 Beta2 IFD: reworked the way code signing and notarization was done. This was required for successfully working on macOS Big Sur IFD: Updated the package build process to use payloads for our IFD handler, instead of script only/copy IFD: The command line program "/usr/local/bin/set-airid-addr" is now correctly code signed by DeveloperID and notarized. AMC: Fixed a bug with regards to version comparing when it comes to -alpha or -beta suffixes in firmware updates AMC: fixes macOS Catalina 10.15.7 Supplement Update 2 /19H105 forced us to use several entitlements to access Bluetooth, USB or even a Smartcard object from within AirIDCentral AMC: fixes macOS 11.1 Beta/Final forced us to use several entitlements to access Bluetooth, USB or even a Smartcard object in AirID Central AMC: fixes update claims to be successful despite being aborted in the background. AMC: fixes Confirming disabling screen lock dialog during firmware update does not work AMC: reworked the way device switching and device state tracking (selected/connected) is done as the former implementation did not work reliable AMC: Updated text for status line in FW update workflow made status line font more prominent AMC: Disabled "Check for App Updates" AMC: Added Info Screen for Disabling/Enabling of ScreenLock during and after update AMC: removed connect to device during scan AMC: fixed several issues with regards to checking & getting the right FW version. AMC: Typo fixes. <h3>Known Issues</h3> <ul style="list-style-type: none"> The AirID BLE IFD Handler currently does not support Apple Silicon (ARM64) platforms The AirIDCentral for macOS is still intel only but works with Rosetta2 on M1 based systems AirID 2.0.0 Beta firmware can only be updated manually for now 	<ul style="list-style-type: none"> macOS Big Sur starting from 11.2 macOS Catalina 10.15.4 <p>macOS BigSur on M1 processors not yet supported!</p> <p>Please  note that the Apple Silicon (ARM64) platform is currently NOT yet supported by version 1.2.0-GA.</p> <p>We are working hard to port over our PC/SC IFD Handler to support Apple Silicon based systems.</p> <p>Please be patient and we thank you for your understanding.</p>	AirID-BLE-Software-for-MacOS-1.2.0.32.pkg	AirID-BLE-Software-for-MacOS-1.2.0.32.pkg.sha2_256
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AirID BLE Software for MacOS	AirID BLE Software for MacOS to connect AirID & AirID Mini with MacOS systems via Bluetooth LE	1.1.0-GA	<p>release contains</p> <ul style="list-style-type: none"> AirID BLE IFD Handler v1.1.0-GA (Driver for AirID BLE connection) AirIDMacCentral v1.1.0-GA (UI program for selecting/changing AirID) Full support for released versions of macOS Mojave 10.14.6 and macOS Catalina 10.15.3 Removed debug log for sc status (too much) in ifd-airid-ble driver Added (public) to debug logging as Catalina 10.15.3 no longer allows to enable and display private data logging Removed card-idle-timer Feature from ifd-airid-ble driver as it looks like Apple is integrating such a feature directly in CTK ifd-airid-ble.pkg package is now signed with Developer ID Installer: certgate GmbH (HY99FHCP6A) certificate AirIDCentral.pkg package is now signed with Developer ID Installer: certgate GmbH (HY99FHCP6A) certificate AirIDCentral.pkg package is now notarized and stapled as well AirIDMacCentral was renamed to AirIDCentral <ul style="list-style-type: none"> Please remove the OLD /Applications /AirIDMacCentral Application manually The Installer installs the new named AirIDCentral Application to /Applications. AirID Central now presents a "Introduction Tutorial" when started for the first time. Reworked the Help Menu Structure <ul style="list-style-type: none"> Show Introduction Tutorial Online Support Access for https://certgate.com/support About AirIDCentral Main Installer package is now component based and allows selection of component packages Main Installer package now checks if os-version >= 10.14 (Mojave and Catalina) Main Installer package now checks if os arch type == x86_64 <p>Known Issues</p> <ul style="list-style-type: none"> Enable logging of private Date is no longer working in Catalina, e.g. "sudo log config --mode "private_data:on" <ul style="list-style-type: none"> Using the PrivateLogs workaround is no longer working starting with macOS 10.15.3-beta2 (beta1 still works) 	<ul style="list-style-type: none"> macOS Mojave 10.14.6 macOS Catalina 10.15.4 <p>macOS BigSur not yet supported!</p> <p>Please note that the macOS (11.x) BigSur version is not yet supported. We are working hard to adopt to the unforeseen substantial changes in BigSur. Please be patient and we thank you for your understanding.</p>	AirID-BLE-Software-for-MacOS-1.1.0.pkg	AirID-BLE-Software-for-MacOS-1.1.0.pkg.sha2_256
AirID BLE Software for MacOS	AirID BLE Software for MacOS to connect AirID & AirID Mini with MacOS systems via Bluetooth LE	1.0.0-GA	<p>Initial release contains</p> <ul style="list-style-type: none"> AirID BLE IFD Handler v1.0.0-GA (Driver for AirID BLE connection) AirIDMacCentral v1.0.0-GA (UI program for selecting/changing AirID) 	MacOS Mojave 10.14.6	AirID-BLE-Software-for-MacOS-1.0.0.pkg	AirID-BLE-Software-for-MacOS-1.0.0.pkg.sha2_256



Driver & SDK	Description	Version	Release Notes	Supported OS Platform	File	Checksum (SHA256)
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AirID SDK for iOS	AirID SDK for iOS	1.0.4-GA	<p>New or changed:</p> <ul style="list-style-type: none"> Analyzed and refactored code with regards to initial pairing and LTK / SK creation to make initial LTK key agreement more robust against LTK and SK negotiation failures with AirID1 devices. Moved exchangeKey to AIDDeviceStateConnected Added state counter to better track state changes and having better control for state transits replaced calls to exchangeKey by state reenter Use state counter for detecting init abort on problems or connectivity issues when Key agreement is in progress. changed Timer Timeout for pairing (from selection to successful final initialization) from 30.0 seconds to 50.0 seconds Changed encryption TAG length from 8 to 4 to comply with other platform drivers and make packet transmit more robust Updated logging to use device name where appropriate <p>Fixed:</p> <ul style="list-style-type: none"> AirID reader becomes disconnected during initial connection with pairing (regression) Fixed mis guided Timer Timeout which sometimes fires even when Timer was invalidated. This issue was partly responsible for firing "Initialization Timeout" Errors even when LTK and SK where successfully negotiated. Use encrypted data length for packet calculation not the "unencrypted" data length. 	>= iOS 10.3.3; Xcode 10+	AirID-iOS-Driver-v1.0.4-GA.zip	AirID-iOS-Driver-v1.0.4-GA.zip.sha2_256
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Prior versions

Driver & SDK	Description	Version	Release Notes	Supported OS Platform	File	Checksum (SHA256)
AirID SDK for iOS	AirID SDK for iOS	1.0.0	<ul style="list-style-type: none"> Added compatibility with firmware 1.2.1 and 1.3.0 Improved protocol downgrade protection 	>= iOS 10.3.3; Xcode 10+	AirID-iOS-SDK_1.0.0.zip	AirID-iOS-SDK_1.0.0.zip.sha2_256



Android



Due to the huge amount of variants of Android OS implementations, we can not guarantee the function of AirID SDKs and AirID devices with any Android device. We are only supporting AirD2 in combination of the Enterprise Edition of Samsung Galaxy S8, S9 & S10.

In case of unstable AirID2 - Android connections please contact our support by creating a support ticket:

For more information about our products & services, please visit our website: <https://airid.com/en/>

For technical assistance & support, please visit <https://airid.com/service-portal>

Or create a support ticket here: [create a support request](#)

Driver & SDK	Description	Version	Release Notes	Supported OS Platform	File	Checksum (SHA256)
AirID SDK for Android	AirID SDK for Android	2.0.2-GA	<p> Improvements & Changes</p> <ul style="list-style-type: none"> Reveal all public methods throught the obfuscator instead of naming them individually Replaced remaining busy loops with wait (AirIDCardTerminal#waitForConnection, FutureValue#get) Replaced Exception#printStackTrace with call to Log AirIDCardTerminal#waitForCardPresent and #waitForCardAbsent throw an Exception when connection is not established or lost to prevent wrong usage Updated gradle targetSdkVersion to 30 Unregister android.content.BroadcastReceiver in all cases 	<ul style="list-style-type: none"> compiled for API 30; minSdk is still at API 23 Android Studio 4.2.1 gradle 6.1.1 	AirID-Android-SDK-v2.0.2-GA.zip	AirID-Android-SDK-v2.0.2-GA.zip.sha2_256

Prior versions

Driver & SDK	Description	Version	Release Notes	Supported OS Platform	File	Checksum (SHA256)
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AirID SDK for Android	AirID SDK for Android	2.0.1-GA	<ul style="list-style-type: none"> ✓ Improvements & Changes <ul style="list-style-type: none"> Fixed some regressions in regards to update callbacks when something goes wrong in between Changed Android Support Library to use the AndroidX 1.2.0 Support Library – Removed Functionality <ul style="list-style-type: none"> Removed allowBackup in SDK manifest 	<ul style="list-style-type: none"> compiled for Android 10 (API 29); minSdk is still at API 23 Android Studio 4.1.0 gradle 6.1.1 	AirID-Android-SDK-v2.0.1-GA.zip	AirID-Android-SDK-v2.0.1-GA.zip.sha2_256
AirID SDK for Android	AirID SDK for Android	2.0.0-GA	<ul style="list-style-type: none"> + New Functions <ul style="list-style-type: none"> NEW Over-The-Air (OTA) AirID firmware update function <ul style="list-style-type: none"> AirID firmware update includes download from AirID update server and wireless transfer via BLE to AirID device Firmware update can be called manually and automatic through AirIDCardTerminal class Current Firmware Version can be obtained through AirIDCardTerminal class <ul style="list-style-type: none"> dependency on ed25519 library is required for this feature Added support for AirID2 Firmware 2.0.0 Added pairing option from within SDK when using DeviceConnector ✓ Improvements & Changes <ul style="list-style-type: none"> Updated Documentation to include manual and automatically updates via SDK Marked deprecated functionality <ul style="list-style-type: none"> CardType and CardOS Settings: SignalStrength, AdvertisingMode, ContrastLevel Enhanced logging Permissions are now managed individually on APP level, not by SDK ✓ Fixed <ul style="list-style-type: none"> Fixed issues in regards to BluetoothGATT references – Removed Functionality <ul style="list-style-type: none"> Removed permissions from SDK library. Apps are now free to define & manage their individual required permissions on their own. 	<ul style="list-style-type: none"> compiled for Android 10 (API 29); minSdk is still at API 23 Android Studio 4.1.0 gradle 6.1.1 	AirID-Android-Driver-v2.0.0-GA.zip	AirID-Android-Driver-v2.0.0-GA.zip.sha2_256
AirID SDK for Android	AirID SDK for Android	1.9.5-GA	<ul style="list-style-type: none"> updated: Android Studio 4.1.0 / Gradle 6.1.1 was used to build the final GA Release updated: API compileSdkVersion and targetSdkVersion raised to API 29 (Android 10), minSdk is left to API 23 fixed: AirIDCardTerminalScanner caused Application Not Responsible (ANR) fixed: Register for BluetoothAdapter events to better handle global Bluetooth states (BLE on / BLE off) fixed: NullPointerException when using AirIDCardTerminalScanner with Mode#Scan_Lollipop optimized: DeviceConnector#waitForCardPresent and DeviceConnector#waitForCardAbsent now use async waiting instead of busy loops added: preparations for future over the air firmware update functionality 	<ul style="list-style-type: none"> compiled for Android 10 (API 29); minSdk is still at API 23 Android Studio 4.1.0 gradle 6.1.1 	AirID-Android-Driver-v1.9.5.zip	AirID-Android-Driver-v1.9.5.zip.sha2_256
AirID SDK for Android	AirID SDK for Android	1.9.4-GA	<ul style="list-style-type: none"> Android Studio 3.6.3 was used to build the final GA Release Android 10 is now fully supported but we still targeting API version 28 The Driver now uses android.permission.ACCESS_FINE_LOCATION to support Android 10 in AndroidManifest.xml The Driver now uses android.permission.ACCESS_BACKGROUND_LOCATION to support Android 10 Better support for HW revision A2XX1.1.0 and firmware 1.3.1+ Added A2XX and A2MX serial number parsing to DeviceType enum. Fixed an issue with AirID1 key management and Android 10 	Android 8 upwards (API 26); Android Studio 3.6.3	AirID-Android-Driver-v1.9.4.zip	AirID-Android-Driver-v1.9.4.zip.sha2_256
AirID SDK for Android	AirID SDK for Android	1.9.3-GA	<ul style="list-style-type: none"> Updated Gradle version to v3.4.1 Activated NSLogger for debug version Implementation of accessibility for AirID2 Mini readers Defined new setting for LEDs for AirID2 Mini 	Android 8 upwards (API 26); Android Studio 3.4.1	AirID-Android-Driver_v1.9.3-GA.zip	AirID-Android-Driver_v1.9.3-GA.zip.sha2_256
AirID SDK for Android	AirID SDK for Android	1.9.2-GA	<ul style="list-style-type: none"> Analyze code with regards to initial pairing and LTK/SK creation to make initial LTK key agreement more robust against LTK and SK negotiation failures with AirID1 devices. Analyze and test code with regards to time intervals to eliminate AirID reader stuck on "not bonded yet". Test and change the time intervals and delays on Bluetooth connection to make the connection more stable. Set the key remotely from the app for saving LTKs is available. (Optional) 	Android 8 upwards (API 26); Android Studio 3.4.1	AirID-Android-Driver-v1.9.2-GA.aar.zip	AirID-Android-Driver-v1.9.2-GA.aar.zip.sha2_256

AirID SDK for Android	AirID SDK for Android	1.8.6	Bugfixes <ul style="list-style-type: none"> • handling of AirID no random number • disconnect after card reset • loop after force AES-256 mode is enabled • AirID2 discovery and pairing 	Android 4.4 upwards	AirIdDriverAndroid-1.8.6.aar.zip	AirIdDriverAndroid-1.8.6.aar.zip.sha2_256
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Linux



As there are many distributions of Linux available, please contact our support at <https://certgate.com/service-portal> to get the suitable AirID driver for your Linux system.



Firmware



AirID 2 Business

Starting with AirID Firmware version 2.0.0, the AirID2 Business may be used as a smart card reader and as FIDO2 compliant wireless authenticator token.

We appreciate any feedback from you. You may easily sign up at our support & feedback portal at <https://airid.com/service-portal>
[How do I update the AirID device firmware on Windows 10 and MacOS?](#)

Description	Version	Release Notes	Classification	File	Checksum (SHA256)	ed Signature
AirID 2 Firmware Business Edition	2.0.3 -GA	<p>Changelog for AirID2 firmware 2.0.3-GA</p> <p>i Known Limitations</p> <ul style="list-style-type: none"> • Firmware Update from 1.x.x version to 2.0.2 requires Bluetooth re-pairing for paired devices • NEW FIDO2 support in V.2.0.2 available for WINDOWS10 devices via BLE only - other platforms will follow. • NEW FIDO Support in V2.0.2 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.2 <p>+ New Functionality</p> <ul style="list-style-type: none"> • No new functionality <p>✓ Improvements & Changes</p> <ul style="list-style-type: none"> • no new improvements <p>✓ Fixed</p> <ul style="list-style-type: none"> • problems with certain CAC cards sending superfluous TCK bytes <p>– Removed Functionality</p> <ul style="list-style-type: none"> • No functionality removed 	Recommended Update	airid-all-firmware-re-2.0.3.zip	airid-all-firmware-2.0.3.zip.sha2_256	airid-all-firmware-2.0.3.zip.pub

Prior versions

Description	Version	Release Notes	Classification	File	Checksum (SHA256)	ed Signature
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AirID 2 Firmware Business Edition	2.0.2 -GA	<h2>Changelog for AirID2 firmware 2.0.2-GA</h2> <p> Known Limitations</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.2 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.2 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.2 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.2 <h3>+ New Functionality</h3> <ul style="list-style-type: none"> No new functionality <h3>✓ Improvements & Changes</h3> <ul style="list-style-type: none"> Host name is properly read from NVM and used as a fallback if the hostname is not available or transmitted to the device for some reason after a connect <h3>✓ Fixed</h3> <ul style="list-style-type: none"> Avoid disconnect for Android workaround on Windows based systems after pairing from system settings / system preferences <h3>- Removed Functionality</h3> <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmware-2.0.2.zip	airid-all-firmware-2.0.2.zip.sha2_256	airid-all-firmware-2.0.2.zip.pub
AirID 2 Firmware Business Edition	2.0.1 -GA	<h2>Changelog for AirID2 firmware 2.0.1</h2> <p>Known Limitations for V2.0.1:</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.1 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.1 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.1 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.1 <h3>+ New Functionality</h3> <ul style="list-style-type: none"> NEW BLE support for FIDO2, in parallel with the existing Smartcard/PKI service <ul style="list-style-type: none"> Enable parts of FIDO 2.1 needed for some FIDO 2.1 extensions FIDO2 User presence test is implemented via display/jogdial for now AirID devices without external flash can store up to 12 resident keys. For *-beta1* only internal storage is used external flash is now used for storing resident FIDO2 keys rk-store (A2XX HW rev >= 1.1.0 and A2MX >= 1.0.0 only) <ul style="list-style-type: none"> can store up to 200 resident keys secured with ccm encryption Implemented FIDO2 basic Attestation for AirID devices NEW BLE Night Mode <ul style="list-style-type: none"> switches off BLE advertising / connection from 22:00 - 05:00 or outside working time ranges, if set from remote host new menu item: <ul style="list-style-type: none"> Settings / BLE Night Mode (options: ON / OFF) can be temporary disabled from Connection menu can be controlled from remote host NEW BLE privacy settings (switched off by default): <ul style="list-style-type: none"> battery service can only be accessed if access is authenticated, AirID devices now support random resolvable bluetooth mac addresses, according to Bluetooth Core 5.1 AirID devices now implement anonymous bluetooth advertising according to Bluetooth Core 5.0 Read BLE Privacy settings from remote host NEW Menu items: <ul style="list-style-type: none"> Settings / Random MAC - (options: ON, OFF) Settings / Advertising - (options: ANONYMOUS, "WITH NAME") Settings / Reset Device Name (only visible if custom device name was configured via BLE, resets to S/N default) Debug / Fido2 Buffers - Usage for FIDO2 memory buffers Debug / Fido2 Keystore - Shows use of resident FIDO2 keys and max size of keys Debug / Reset FIDO2 AirID Info / Device Name (shows custom device name if configured via BLE) <h3>✓ Improvements & Changes</h3> <ul style="list-style-type: none"> Implemented protected pin methods for Secure Remote Settings Added "Reset Settings" Menu entry - This allows you to reset your AirID Device Settings but all 'user data' like Bluetooth Pairings, LTK Keys and FIDO2 Keys are NOT removed. Renamed "Remove Pairings" menu entry to "Reset BLE" Renamed "Reset Keys" menu entry to "Reset LTK Keys" Added "Reset FIDO2" menu entry - this allows you to remove all FIDO2 keys from your device. You will be asked twice before final removal to prevent accidental removal of FIDO2 keys. Changed "Factory Reset" to double confirmation before reset to prevent accidental "Factory Reset" Moved all Reset related Menu entries to a improved/more detailed reset menu called "Reset" located under Settings Show Connection "OFF" outside working time ranges (during BLE Night mode) adapt handling of separate binaries for OTA files 	Recommended Update	airid-all-firmware-2.0.1.zip	airid-all-firmware-2.0.1.zip.sha2_256	airid-all-firmware-2.0.1.zip.pub

- various resource cleanups to have space for FIDO2
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Nostack builds work as fido2 USB token
- Debug menu is now always visible in "-alpha" and "-beta" releases and will be disabled for "-GA" releases
- reduced max apdu lengths: 5000 bytes (A2XX) and 5000 bytes (A2MX)
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Enhanced Connected Menu to allow new privacy modes
 - OFF
 - ON/Waiting (anonymous advertising)
 - ON/Pairing (advertising with device name)
- added more information in device descriptor
- Implemented a introspection method (RPC 0) to get the list of supported RPC commands in advance for this FW version
- RPC_SET_SETTING: preferred way to set things now, Indication will be removed in future
- Write new firmware via usb while device is operational
- Implemented a new build mode to allow unattended fido2 tests
- Right justify values in settings menu

✓ Fixed

- Fixed uneven display color on A2MX
- Use und return correct return code for update firmware RPC
- Added 'nix' A2MX bootloader OTA updates
- Working time ranges doesn't switch off advertising if dynamic advertising interval is disabled
- Fix USB-serial-only pattern matching for A2MX20[789]X devices
- fixed a advertising data size error
- NVM error handling fixes
- Factory reset also erases keys on external storage now
- fix AAGUID attribute in included basic attestation certificate
- fix for "battery low" issue reported in [COREFW-767](#)
- fixes regarding BLE cancellation and disabling of notifications
- fixes regarding pairing device list retrieval

− Removed Functionality

- Removed SET_SETTINGS indication (replaced by a RPC)
- Remove MobDev Finder artifacts from firmware (no function)

AirID 2
Firmware
Business Edition

2.0.0 -GA

Changelog for AirID2 firmware 2.0.0

Known Limitations for V2.0.0:

- Firmware Update from 1.x.x version to 2.0.0 requires Bluetooth re-pairing for paired devices
- NEW FIDO2 support in V.2.0.0 available for WINDOWS10 devices via BLE only - other platforms will follow.
- NEW FIDO Support in V2.0.0 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.0

+ New Functionality

- **NEW BLE support for FIDO2, in parallel with the existing Smartcard/PKI service**
 - Enable parts of FIDO 2.1 needed for some FIDO 2.1 extensions
 - FIDO2 User presence test is implemented via display/jogdial for now
 - AirID devices without external flash can store up to 12 resident keys. For "-beta1" **only** internal storage is used
 - external flash is now used for storing resident FIDO2 keys rk-store (A2XX HW rev >= 1.1.0 and A2MX >= 1.0.0 only)
 - can store up to 200 resident keys
 - secured with ccm encryption
 - Implemented FIDO2 basic Attestation for AirID devices
- **NEW BLE Night Mode**
 - switches off BLE advertising / connection from 22:00 - 05:00 or outside working time ranges, if set from remote host
 - new menu item:
 - Settings / BLE Night Mode (options: ON / OFF)
 - can be temporary disabled from Connection menu
 - can be controlled from remote host
- **NEW BLE privacy settings** (switched off by default):
 - battery service can only be accessed if access is authenticated,
 - AirID devices now support random resolvable bluetooth mac addresses, according to Bluetooth Core 5.1
 - AirID devices now implement anonymous bluetooth advertising according to Bluetooth Core 5.0
 - Read BLE Privacy settings from remote host
- **NEW Menu items:**
 - Settings / Random MAC - (options: ON, OFF)
 - Settings / Advertising - (options: ANONYMOUS, "WITH NAME")
 - Settings / Reset Device Name (only visible if custom device name was configured via BLE, resets to S/N default)
 - Debug / Fido2 Buffers - Usage for FIDO2 memory buffers
 - Debug / Fido2 Keystore - Shows use of resident FIDO2 keys and max size of keys
 - Debug / Reset FIDO2
 - AirID Info / Device Name (shows custom device name if configured via BLE)

✓ Improvements & Changes

Recommended
Update

[airid-all-firmware-2.0.0.zip](#)

[airid-all-firmware-2.0.0.zip.sha2_256](#)

[airid-all-firmware-2.0.0.zip.pub](#)

- Implemented protected pin methods for Secure Remote Settings
- Added "Reset Settings" Menu entry - This allows you to reset your AirID Device Settings but all 'user data' like Bluetooth Pairings, LTK Keys and FIDO2 Keys are NOT removed.
- Renamed "Remove Pairings" menu entry to "Reset BLE"
- Renamed "Reset Keys" menu entry to "Reset LTK Keys"
- Added "Reset FIDO2" menu entry - this allows you to remove all FIDO2 keys from your device. You will be asked twice before final removal to prevent accidental removal of FIDO2 keys.
- Changed "Factory Reset" to double confirmation before reset to prevent accidental "Factory Reset"
- Moved all Reset related Menu entries to a improved/more detailed reset menu called "Reset" located under Settings
- Show Connection "OFF" outside working time ranges (during BLE Night mode)
- adapt handling of separate binaries for OTA files
- various resource cleanups to have space for FIDO2
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Nostack builds work as fido2 USB token
- Debug menu is now always visible in "-alpha" and "-beta" releases and will be disabled for "-GA" releases
- reduced max apdu lengths: 5000 bytes (A2XX) and 5000 bytes (A2MX)
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Enhanced Connected Menu to allow new privacy modes
 - OFF
 - ON/Waiting (anonymous advertising)
 - ON/Pairing (advertising with device name)
- added more information in device descriptor
- Implemented a introspection method (RPC 0) to get the list of supported RPC commands in advance for this FW version
- RPC_SET_SETTING: preferred way to set things now. Indication will be removed in future
- Write new firmware via usb while device is operational
- Implemented a new build mode to allow unattended fido2 tests
- Right justify values in settings menu

✓ Fixed

- Use and return correct return code for update firmware RPC
- Added 'nix' A2MX bootloader OTA updates
- Working time ranges doesn't switch off advertising if dynamic advertising interval is disabled
- Fix USB-serial-only pattern matching for A2MX20[789]X devices
- fixed a advertising data size error
- NVM error handling fixes
- Factory reset also erases keys on external storage now
- fix AAGUID attribute in included basic attestation certificate
- fix for "battery low" issue reported in [COREFW-707](#)
- fixes regarding BLE cancellation and disabling of notifications
- fixes regarding pairing device list retrieval

– Removed Functionality

- Removed SET_SETTINGS indication (replaced by a RPC)
- Remove MobDev Finder artifacts from firmware (no function)

AirID 2 Firmware Business Edition	1.4.1-GA	<h3>✓ Fixed</h3> <ul style="list-style-type: none"> • A regression was fixed which resulted in a wrong display of bootloader version in device -> info -> Board version. <h3>✓ Improvements</h3> <ul style="list-style-type: none"> • No improvements. <h3>+ New Functionality (API/SDK)</h3> <ul style="list-style-type: none"> • No new functionality added. <h3>– Removed Functionality</h3> <ul style="list-style-type: none"> • No functionality removed 	Recommended Update	airid-all-firmware-1.4.1.zip	airid-all-firmware-1.4.1.zip.sha2_256	airid-all-firmware-1.4.1.zip.pub
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AirID 2 Firmware Business Edition	1.4.0-GA	<p> Fixed</p> <ul style="list-style-type: none"> ensure that local changed settings are sent back to the host side. Fix BLE disconnect after pairing and no communication for 3s. Some Android devices keep the BLE connection after pairing and blocks the communication between AirID app and AirID device. Improve USB bootloader mode (HW version < 1.1.0) selection Switch off JTAG pins if JTAG is fused <p> Improvements</p> <ul style="list-style-type: none"> Disable dynamic connection interval. Otherwise we might see BLE supervision timeouts. Fix BLE disconnect after pairing and no communication for 3s. Some Android devices keep the BLE connection after pairing and blocks the communication between AirID app and AirID device. Update BLE stack to version 2.13.6 and replace usage of deprecated BLE API methods. Set 2M PHY as preferred PHY (BLE5) Do all BLE related settings before advertising starts A2XX: Switch off BLE when low battery limit is reached (~3.4V). This should prevent from smartcard errors at low battery conditions <p> New Functionality (API/SDK)</p> <ul style="list-style-type: none"> new RPC method 0x16 to switch to bootloader mode from host side Prepare OTA functionality (only for A2MX and A2XX with HW version >= 1.1.0) <p> Removed Functionality</p> <ul style="list-style-type: none"> migrate NVM parameters from old NVM implementation. Note update from FW <= 1.1.1 are no longer supported! Remove BLE indications to trigger update modes (0x04 and 0x0B) Remove "Force 256 Bit" setting. "Force 256 Bit" is always enabled and cannot be disabled anymore. Remove no longer needed settings: Contrast, Signal Strength and Limited Advertising Add connection parameters to BLE event logging and distinguish between A2XX and A2MX timer handles 	Recommended Update	airid-all- firmware- 1.4.0. zip	airid-all- firmware-1.4.0. zip.sha2_256	airid-all- firmware-1.4.0. zip.pub
AirID 2 Firmware Business Edition	1.3.2-GA	<p> Fixed</p> <ul style="list-style-type: none"> Shut up USB IRQ noises with older AirID2 hardware revisions -> speed fixes <p> Added</p> <ul style="list-style-type: none"> Disconnect after Bluetooth Pairing when there is no write to AirID service for 3s afterwards Added watchdog to switch off Bluetooth when Battery gets below 3,4V (-0%) to avoid SC failures for power consuming tasks, RSA Keypair generation or other heavy duty operations Added event logging capability for the last ~100 events to AirID2 firmware <ul style="list-style-type: none"> To get an insight view what happens in the BLE stack @ a disconnect, we gather some debug infos: <ul style="list-style-type: none"> Read last ble disconnect reason in debug menu Information about connection parameters New logging data struct for BLE stack events: <ul style="list-style-type: none"> size ~100 last events stop logging @ disconnect read data from new RPC command restart logging after read This feature is currently only available from the DEBUG menu of the AirID2 device and not exposed to any SDK / Driver 	Recommended Update	airid-all- firmware- 1.3.2. zip	airid-all- firmware-1.3.2. zip.sha2_256	
AirID 2 Firmware Business Edition	1.3.1-GA	<p>Improved:</p> <ul style="list-style-type: none"> added intelligent flasher "winusb-flash-device.exe" and "flash-airid.command" on MacOS added support for new bootloader signing keys 		airid-all- firmware- 1.3.1. zip	airid-all- firmware-1.3.1. zip.sha2_256	
AirID 2 Firmware Business Edition	1.3.0-GA	<p>Improved:</p> <ul style="list-style-type: none"> Support for new USB controller for AirID2 and AirID2 Mini (the same firmware works on both controllers) Low battery warnings are displayed contrast menu removed from settings 		airid2- fw-1.3.0. zip	airid2-fw-1.3.0. zip.sha2_256	
AirID 2 Firmware Business Edition	1.2.1-GA	<p>Improved</p> <ul style="list-style-type: none"> NVM rework to make future firmware updates smooth BLE stack updated to v 2.12.3 Distance sensor presettings adjusted: near -70dB, mid -75dB, far -80dB If the device is in USB card reader mode, a new bluetooth connection will not make it leave the USB card reader mode Card support: disabled Clock stop support which seems to cause trouble with TicTok cards For AirID Mini: Linearization of battery level during charging and discharging <p>Note for firmware updates</p> <p> The device settings will be set to default for firmware updates from versions lower than v1.1.1. Please check your device settings after doing the firmware update</p> <p>Note for firmware downgrades</p> <p>If you want to downgrade to 1.1.1, first do a downgrade to 1.1.0, then upgrade to 1.1.1, otherwise NVM in 1.1.1 will not work even after factory reset. If re-updating, do a factory reset.</p> <p>Note for users with version 1.2.0-rc1/rc2</p> <p>For firmware updates from version 1.2.0-rc1/rc2, make sure the USB cable is not connected BEFORE the update process is started. In case the device is already connected via USB, replug the cable to enter the flashing mode.</p>		airid2- fw-1.2.1. zip	airid2-fw-1.2.1. zip.sha2_256	

AirID 2 Firmware Business Edition	1.1.1-GA	<p>Fixed</p> <ul style="list-style-type: none"> Battery status icon updates with changed battery level Staccato like switching connection off/on doesn't bother BLE handling NVM initialization logic <p>Improved</p> <ul style="list-style-type: none"> Setting maximum and minimum advertising interval to 152.5 ms Setting maximum and minimum fast connection intervals to 15 ms Setting maximum and minimum slow connection intervals to 195/210 ms Don't send duplicated smart card status Keep existing configuration parameters at firmware update; new ones will be added with their default values LCD and backlight stay on at USB connection <p>Known limitations:</p> <ul style="list-style-type: none"> The firmware update might reset the configured settings In the rare case that the BLE connection of the reader can not be switched off by the control element, please restart the reader. For users working with BLE and CCID (USB Card Reader > On) with multiple devices: If there is an active BLE connection and a new connection via CCID is started, the card access via BLE is blocked. Also the other way around: If there is an active CCID connection and a new connection via BLE is started, the card access via CCID is blocked. 		airid2-fw-1.1.1.zip	airid2-fw-1.1.1.zip.sha2_256	
AirID 2 Firmware Business Edition	1.1.0-GA	<p>New:</p> <ul style="list-style-type: none"> Implementation of settings --> "Remove pairing" to remove the pairing information and keys (prior name of this option: "Reset keys") Implementation of settings --> "Reset keys" to delete the stored keys (LTK) only without removing the pairing (new option) Removed "Card Info" item from menu Forced LE Secure Connection method for BLE pairing and communication <p>Improved:</p> <ul style="list-style-type: none"> Turn on display and backlight permanently while the device is connected to a external power supply Change default value for setting of USB Card Reader (CCID) to Off Returning to prior menu item after USB Card Reader pop-up dialog closes instead of moving to main menu item "AirID" per default <p>Fixed:</p> <ul style="list-style-type: none"> issues concerning TPDU error handling issues concerning the icon for distance sensor in case of exceeding BLE range workaround for internal BLE stack issues by device reboot <p>Known limitations:</p> <ul style="list-style-type: none"> In the rare case that the BLE connection of the reader can not be switched off by the control element, please restart the reader. For users working with BLE and CCID (USB Card Reader > On) with multiple devices: If there is an active BLE connection and a new connection via CCID is started, the card access via BLE is blocked. Also the other way around: If there is an active CCID connection and a new connection via BLE is started, the card access via CCID is blocked. 		airid2-fw-1.1.0.zip	airid2-fw-1.1.0.zip.sha2_256	
AirID 2 Firmware Business Edition	1.0.3-GA	<p>Fixed:</p> <ul style="list-style-type: none"> Issues regarding T1 cards Advertising issues Smaller bugfixes <p>Improved:</p> <ul style="list-style-type: none"> Battery capacity display on device 		airid2-fw-1.0.3.zip	airid2-fw-1.0.3.zip.sha2_256	
AirID 2 Firmware Business Edition	1.0.2-GA	<p>Fixed:</p> <ul style="list-style-type: none"> Smaller bugfixes <p>Improved:</p> <ul style="list-style-type: none"> Remove "Card Info" menu item Set "Force 256bit" default value to yes 		airid2-fw-1.0.2.zip	airid2-fw-1.0.2.zip.sha2_256	
AirID 2 Firmware Business Edition	1.0.1-GA	Initial General Availability (GA) Version of the AirID2 Firmware Business Edition		airid2-fw-1.0.1.zip	airid2-fw-1.0.1.zip.sha2_256	



AirID 2 Government



Starting with AirID Firmware version 2.0.0, the AirID2 Government may be used as a smart card reader and as FIDO2 compliant wireless authenticator token.

We appreciate any feedback from you. You may easily sign up at our support & feedback portal at <https://airid.com/service-portal>
[How do I update the AirID device firmware on Windows 10 and MacOS?](#)

Description	Version	Release Notes	Classification	File	Checksum (SHA256)	ed Signature
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AirID 2 Firmware Government Edition	2.0.3- GOV-GA	<h2>Changelog for AirID2 firmware 2.0.3-GOV-GA</h2> <p> Known Limitations</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.2 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.2 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.2 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.2 <p> New Functionality</p> <ul style="list-style-type: none"> No new functionality <p> Improvements & Changes</p> <ul style="list-style-type: none"> no new improvements <p> Fixed</p> <ul style="list-style-type: none"> problems with certain CAC cards sending superfluous TCK bytes <p> Removed Functionality</p> <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmware-2.0.3.zip	airid-all-firmware-2.0.3.zip.sha2_256	airid-all-firmware-2.0.3.zip.pub
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Prior versions

Description	Version	Release Notes	Classification	File	Checksum (SHA256)	ed Signature
AirID 2 Firmware Government Edition	2.0.2-GOV-GA	<h2>Changelog for AirID2 firmware 2.0.2-GA</h2> <p> Known Limitations</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.2 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.2 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.2 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.2 <p> New Functionality</p> <ul style="list-style-type: none"> No new functionality <p> Improvements & Changes</p> <ul style="list-style-type: none"> Host name is properly read from NVM and used as a fallback if the hostname is not available or transmitted to the device for some reason after a connect <p> Fixed</p> <ul style="list-style-type: none"> Avoid disconnect for Android workaround on Windows based systems after pairing from system settings / system preferences <p> Removed Functionality</p> <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmware-2.0.2.zip	airid-all-firmware-2.0.2.zip.sha2_256	airid-all-firmware-2.0.2.zip.pub
AirID 2 Firmware Government Edition	2.0.1-GOV-GA	<h2>Changelog for AirID2 firmware 2.0.1</h2>	Recommended Update	airid-all-firmware-2.0.1.zip	airid-all-firmware-2.0.1.zip.sha2_256	airid-all-firmware-2.0.1.zip.pub

Known Limitations for V2.0.1:

- Firmware Update from 1.x.x version to 2.0.1 requires Bluetooth re-pairing for paired devices
- NEW FIDO2 support in V.2.0.1 available for WINDOWS10 devices via BLE only - other platforms will follow.
- NEW FIDO Support in V2.0.1 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.1

+ New Functionality

- **NEW BLE support for FIDO2, in parallel with the existing Smartcard/PKI service**
 - Enable parts of FIDO 2.1 needed for some FIDO 2.1 extensions
 - FIDO2 User presence test is implemented via display/jogdial for now
 - AirID devices without external flash can store up to 12 resident keys. For "-beta1" **only** internal storage is used
 - external flash is now used for storing resident FIDO2 keys rk-store (A2XX HW rev >= 1.1.0 and A2MX >= 1.0.0 only)
 - can store up to 200 resident keys
 - secured with ccm encryption
 - Implemented FIDO2 basic Attestation for AirID devices
- **NEW BLE Night Mode**
 - switches off BLE advertising / connection from 22:00 - 05:00 or outside working time ranges, if set from remote host
 - new menu item:
 - Settings / BLE Night Mode (options: ON / OFF)
 - can be temporarily disabled from Connection menu
 - can be controlled from remote host
- **NEW BLE privacy settings** (switched off by default):
 - battery service can only be accessed if access is authenticated,
 - AirID devices now support random resolvable bluetooth mac addresses, according to Bluetooth Core 5.1
 - AirID devices now implement anonymous bluetooth advertising according to Bluetooth Core 5.0
 - Read BLE Privacy settings from remote host
- **NEW Menu items:**
 - Settings / Random MAC - (options: ON, OFF)
 - Settings / Advertising - (options: ANONYMOUS, "WITH NAME")
 - Settings / Reset Device Name (only visible if custom device name was configured via BLE, resets to S/N default)
 - Debug / Fido2 Buffers - Usage for FIDO2 memory buffers
 - Debug / Fido2 Keystore - Shows use of resident FIDO2 keys and max size of keys
 - Debug / Reset FIDO2
 - AirID Info / Device Name (shows custom device name if configured via BLE)

✓ Improvements & Changes

- Implemented protected pin methods for Secure Remote Settings
- Added "Reset Settings" Menu entry - This allows you to reset your AirID Device Settings but all 'user data' like Bluetooth Pairings, LTK Keys and FIDO2 Keys are NOT removed.
- Renamed "Remove Pairings" menu entry to "Reset BLE"
- Renamed "Reset Keys" menu entry to "Reset LTK Keys"
- Added "Reset FIDO2" menu entry - this allows you to remove all FIDO2 keys from your device. You will be asked twice before final removal to prevent accidental removal of FIDO2 keys.
- Changed "Factory Reset" to double confirmation before reset to prevent accidental "Factory Reset"
- Moved all Reset related Menu entries to a improved/more detailed reset menu called "Reset" located under Settings
- Show Connection "OFF" outside working time ranges (during BLE Night mode)
- adapt handling of separate binaries for OTA files
- various resource cleanups to have space for FIDO2
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Nostack builds work as fido2 USB token
- Debug menu is now always visible in "-alpha" and "-beta" releases and will be disabled for "-GA" releases
- reduced max apdu lengths: 5000 bytes (A2XX) and 5000 bytes (A2MX)
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Enhanced Connected Menu to allow new privacy modes
 - OFF
 - ON/Waiting (anonymous advertising)
 - ON/Pairing (advertising with device name)
- added more information in device descriptor
- Implemented a introspection method (RPC 0) to get the list of supported RPC commands in advance for this FW version
- RPC_SET_SETTING: preferred way to set things now. Indication will be removed in future
- Write new firmware via usb while device is operational
- Implemented a new build mode to allow unattended fido2 tests
- Right justify values in settings menu

✓ Fixed

- Fixed uneven display color on A2MX
- Use and return correct return code for update firmware RPC
- Added 'nix' A2MX bootloader OTA updates
- Working time ranges doesn't switch off advertising if dynamic advertising interval is disabled
- Fix USB-serial-only pattern matching for A2MX20[789]X devices
- fixed a advertising data size error
- NVM error handling fixes
- Factory reset also erases keys on external storage now
- fix AAGUID attribute in included basic attestation certificate
- fix for "battery low" issue reported in [COREFW-767](#)
- fixes regarding BLE cancellation and disabling of notifications
- fixes regarding pairing device list retrieval

- Removed Functionality

- Removed SET_SETTINGS indication (replaced by a RPC)
- Remove MobDev Finder artifacts from firmware (no function)

<p>AirID 2 Firmware Government Edition</p>	<p>2.0.0-GOV- GA</p>	<p>Known Limitations for V2.0.0:</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.0 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.0 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.0 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.0 <p>+ New Functionality</p> <ul style="list-style-type: none"> NEW BLE support for FIDO2, in parallel with the existing Smartcard/PKI service <ul style="list-style-type: none"> Enable parts of FIDO 2.1 needed for some FIDO 2.1 extensions FIDO2 User presence test is implemented via display/jogdial for now AirID devices without external flash can store up to 12 resident keys. For "-beta1" only internal storage is used external flash is now used for storing resident FIDO2 keys rk-store (A2XX HW rev >= 1.1.0 and A2MX >= 1.0.0 only) <ul style="list-style-type: none"> can store up to 200 resident keys secured with ccm encryption Implemented FIDO2 basic Attestation for AirID devices NEW BLE Night Mode <ul style="list-style-type: none"> switches off BLE advertising / connection from 22:00 - 05:00 or outside working time ranges, if set from remote host new menu item: <ul style="list-style-type: none"> Settings / BLE Night Mode (options: ON / OFF) can be temporary disabled from Connection menu can be controlled from remote host NEW BLE privacy settings (switched off by default): <ul style="list-style-type: none"> battery service can only be accessed if access is authenticated, AirID devices now support random resolvable bluetooth mac addresses, according to Bluetooth Core 5.1 AirID devices now implement anonymous bluetooth advertising according to Bluetooth Core 5.0 Read BLE Privacy settings from remote host NEW Menu items: <ul style="list-style-type: none"> Settings / Random MAC - (options: ON, OFF) Settings / Advertising - (options: ANONYMOUS, "WITH NAME") Settings / Reset Device Name (only visible if custom device name was configured via BLE, resets to S/N default) Debug / Fido2 Buffers - Usage for FIDO2 memory buffers Debug / Fido2 Keystore - Shows use of resident FIDO2 keys and max size of keys Debug / Reset FIDO2 AirID Info / Device Name (shows custom device name if configured via BLE) <p>✓ Improvements & Changes</p> <ul style="list-style-type: none"> Implemented protected pin methods for Secure Remote Settings Added "Reset Settings" Menu entry - This allows you to reset your AirID Device Settings but all 'user data' like Bluetooth Pairings, LTK Keys and FIDO2 Keys are NOT removed. Renamed "Remove Pairings" menu entry to "Reset BLE" Renamed "Reset Keys" menu entry to "Reset LTK Keys" Added "Reset FIDO2" menu entry - this allows you to remove all FIDO2 keys from your device. You will be asked twice before final removal to prevent accidental removal of FIDO2 keys. Changed "Factory Reset" to double confirmation before reset to prevent accidental "Factory Reset" Moved all Reset related Menu entries to a improved/more detailed reset menu called "Reset" located under Settings Show Connection "OFF" outside working time ranges (during BLE Night mode) adapt handling of separate binaries for OTA files various resource cleanups to have space for FIDO2 option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff Nostack builds work as fido2 USB token Debug menu is now always visible in "-alpha" and "-beta" releases and will be disabled for "-GA" releases reduced max apdu lengths: 5000 bytes (A2XX) and 5000 bytes (A2MX) option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff Enhanced Connected Menu to allow new privacy modes <ul style="list-style-type: none"> OFF ON/Waiting (anonymous advertising) ON/Pairing (advertising with device name) added more information in device descriptor Implemented a introspection method (RPC 0) to get the list of supported RPC commands in advance for this FW version RPC_SET_SETTING: preferred way to set things now. Indication will be removed in future Write new firmware via usb while device is operational Implemented a new build mode to allow unattended fido2 tests Right justify values in settings menu <p>✓ Fixed</p> <ul style="list-style-type: none"> Use und return correct return code for update firmware RPC Added 'nix' A2MX bootloader OTA updates Working time ranges doesn't switch off advertising if dynamic advertising interval is disabled Fix USB-serial-only pattern matching for A2MX20[789]X devices fixed a advertising data size error NVM error handling fixes Factory reset also erases keys on external storage now fix AAGUID attribute in included basic attestation certificate fix for "battery low" issue reported in COREFW-767 fixes regarding BLE cancellation and disabling of notifications fixes regarding pairing device list retrieval 	<p>Recommended Update</p>	<p>airid-all- firmware- 2.0.0. zip</p>	<p>airid-all- firmware-2.0.0. zip.sha2_256</p>	<p>airid-all- firmware-2.0.0. zip.pub</p>
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		<p>Removed Functionality</p> <ul style="list-style-type: none"> Removed SET_SETTINGS indication (replaced by a RPC) Remove MobDev Finder artifacts from firmware (no function) 				
AirID 2 Firmware Government Edition	1.4.1-GOV-GA	<p>Fixed</p> <ul style="list-style-type: none"> A regression was fixed which resulted in a wrong display of bootloader version in device -> info -> Board version. <p>Improvements</p> <ul style="list-style-type: none"> No improvements. <p>New Functionality (API/SDK)</p> <ul style="list-style-type: none"> No new functionality added. <p>Removed Functionality</p> <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmware-1.4.1.zip	airid-all-firmware-1.4.1.zip.sha2_256	airid-all-firmware-1.4.1.zip.pub
AirID 2 Firmware Government Edition	1.4.0-GOV-GA	<p>Fixed</p> <ul style="list-style-type: none"> ensure that local changed settings are sent back to the host side. Don't switch to update mode @ BLE indication "0x0A System Suspend". Improve USB bootloader mode (HW version < 1.1.0) selection Switch off JTAG pins if JTAG is fused <p>Improvements</p> <ul style="list-style-type: none"> Disable dynamic connection interval. Otherwise we might see BLE supervision timeouts. Fix BLE disconnect after pairing and no communication for 3s. Some Android devices keep the BLE connection after pairing and blocks the communication between AirID app and AirID device. Update BLE stack to version 2.13.6 and replace usage of deprecated BLE API methods. Set 2M PHY as preferred PHY (BLE5) Do all BLE related settings before advertising starts A2XX: Switch off BLE when low battery limit is reached (~-3.4V). This should prevent from smartcard errors at low battery conditions <p>New Functionality (API/SDK)</p> <ul style="list-style-type: none"> new RPC method 0x16 to switch to bootloader mode from host side Prepare OTA functionality (only for A2MX and A2XX with HW version >= 1.1.0) <p>Removed Functionality</p> <ul style="list-style-type: none"> migrate NVM parameters from old NVM implementation. Note update from FW <= 1.1.1 are no longer supported! Remove BLE indications to trigger update modes (0x04 and 0x0B) Remove "Force 256 Bit" setting. "Force 256 Bit" is always enabled and cannot be disabled anymore. Remove no longer needed settings: Contrast, Signal Strength and Limited Advertising Add connection parameters to BLE event logging and distinguish between A2XX and A2MX timer handles 	Recommended Update	airid-all-firmware-1.4.0.zip	airid-all-firmware-1.4.0.zip.sha2_256	airid-all-firmware-1.4.0.zip.pub
AirID 2 Firmware Government Edition	1.3.2-GA	<p>Fixed</p> <ul style="list-style-type: none"> Shut up USB IRQ noises with older AirID2 hardware revisions -> speed fixes <p>Added</p> <ul style="list-style-type: none"> Disconnect after Bluetooth Pairing when there is no write to AirID service for 3s afterwards Added watchdog to switch off Bluetooth when Battery gets below 3.4V (-0%) to avoid SC failures for power consuming tasks, RSA Keypair generation or other heavy duty operations Added event logging capability for the last ~100 events to AirID2 firmware <ul style="list-style-type: none"> To get an insight view what happens in the BLE stack @ a disconnect, we gather some debug infos: <ul style="list-style-type: none"> Read last ble disconnect reason in debug menu Information about connection parameters New logging data struct for BLE stack events: <ul style="list-style-type: none"> size ~100 last events stop logging @ disconnect read data from new RPC command restart logging after read This feature is currently only available from the DEBUG menu of the AirID2 device and not exposed to any SDK / Driver 	Recommended Update	airid-all-firmware-1.3.2.zip	airid-all-firmware-1.3.2.zip.sha2_256	
AirID 2 Firmware Government Edition	1.3.1-GOV-GA	<p>Improved:</p> <ul style="list-style-type: none"> added intelligent flasher "winusb-flash-device.exe" and "flash-airid.command" on MacOS added support for new bootloader signing keys 		airid-all-firmware-1.3.1.zip	airid-all-firmware-1.3.1.zip.sha2_256	

AirID 2 Firmware Government Edition	1.3.0-GOV-GA	<p>Improved:</p> <ul style="list-style-type: none"> Support for new USB controller for AirID2 and AirID2 Mini (the same firmware works on both controllers) Low battery warnings are displayed contrast menu removed from settings 		airid2-fw-1.3.0-GOV.zip	airid2-fw-1.3.0-GOV.zip.sha2_256	
AirID 2 Firmware Government Edition	1.1.1-GOV-GA	<p>fixed</p> <ul style="list-style-type: none"> Battery status icon updates with changed battery level Staccato like switching connection off/on doesn't bother BLE handling NVM initialization logic LCD and backlight stay on at USB connection <p>improved</p> <ul style="list-style-type: none"> Setting maximum and minimum advertising interval to 152.5 ms Setting maximum and minimum fast connection intervals to 15 ms Setting maximum and minimum slow connection intervals to 195/210 ms Don't send duplicated smart card status Keep existing configuration parameters at firmware update; new ones will be added with their default values <p>Known limitations:</p> <ul style="list-style-type: none"> The firmware update might reset the configured settings In the rare case that the BLE connection of the reader can not be switched off by the control element, please restart the reader. For users working with BLE and CCID (USB Card Reader > On) with multiple devices: If there is an active BLE connection and a new connection via CCID is started, the card access via BLE is blocked. Also the other way around: If there is an active CCID connection and a new connection via BLE is started, the card access via CCID is blocked. 		airid2-fw-1.1.1-GOV.zip	airid2-fw-1.1.1-GOV.zip.sha2_256	
AirID 2 Firmware Government Edition	1.1.0-GOV-GA	<ul style="list-style-type: none"> initial release of AirID 2 Government Edition <p>Known limitations:</p> <ul style="list-style-type: none"> In the rare case that the BLE connection of the reader can not be switched off by the control element, please restart the reader. For users working with BLE and CCID (USB Card Reader > On) with multiple devices: If there is an active BLE connection and a new connection via CCID is started, the card access via BLE is blocked. Also the other way around: If there is an active CCID connection and a new connection via BLE is started, the card access via CCID is blocked. 		airid2-fw-1.1.0-GOV.zip	airid2-fw-1.1.0-GOV.zip.sha2_256	



AirID 2 Mini Business



Starting with AirID Firmware version 2.0.0, the AirID2 Mini Business may be used as a smart card reader and as FIDO2 compliant wireless authenticator token.

We appreciate any feedback from you. You may easily sign up at our support & feedback portal at <https://airid.com/service-portal>
[How do I update the AirID device firmware on Windows 10 and MacOS?](#)

Description	Version	Release Notes	Classification	File	Checksum (SHA256)	ed Signature
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AirID 2 Mini Firmware Business Edition	2.0.3 -GA	<h2>Changelog for AirID2 firmware 2.0.3-GA</h2> <p>i Known Limitations</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.2 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.2 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.2 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.2 <p>+ New Functionality</p> <ul style="list-style-type: none"> No new functionality <p>✓ Improvements & Changes</p> <ul style="list-style-type: none"> no new improvements <p>✓ Fixed</p> <ul style="list-style-type: none"> problems with certain CAC cards sending superfluous TCK bytes <p>- Removed Functionality</p> <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmware-re-2.0.3.zip	airid-all-firmware-2.0.3.zip.sha2_256	airid-all-firmware-2.0.3.zip.pub
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Prior versions

Description	Version	Release Notes	Classification	File	Checksum (SHA256)	ed Signature
AirID 2 Mini Firmware Business Edition	2.0.2 -GA	<h2>Changelog for AirID2 firmware 2.0.2-GA</h2> <p>i Known Limitations</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.2 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.2 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.2 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.2 <p>+ New Functionality</p> <ul style="list-style-type: none"> No new functionality <p>✓ Improvements & Changes</p> <ul style="list-style-type: none"> Host name is properly read from NVM and used as a fallback if the hostname is not available or transmitted to the device for some reason after a connect <p>✓ Fixed</p> <ul style="list-style-type: none"> Avoid disconnect for Android workaround on Windows based systems after pairing from system settings / system preferences <p>- Removed Functionality</p> <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmware-2.0.2.zip	airid-all-firmware-2.0.2.zip.sha2_256	airid-all-firmware-2.0.2.zip.pub
AirID 2 Mini Firmware Business Edition	2.0.1 -GA	<h2>Changelog for AirID2 firmware 2.0.1</h2> <p>Known Limitations for V2.0.1:</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.1 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.1 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.1 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.1 <p>+ New Functionality</p>	Recommended Update	airid-all-firmware-2.0.1.zip	airid-all-firmware-2.0.1.zip.sha2_256	airid-all-firmware-2.0.1.zip.pub

- **NEW BLE support for FIDO2, in parallel with the existing Smartcard/PKI service**
 - Enable parts of FIDO 2.1 needed for some FIDO 2.1 extensions
 - FIDO2 User presence test is implemented via display/jogdial for now
 - AirID devices without external flash can store up to 12 resident keys. For "-beta1" **only** internal storage is used
 - external flash is now used for storing resident FIDO2 keys rk-store (A2XX HW rev >= 1.1.0 and A2MX >= 1.0.0 only)
 - can store up to 200 resident keys
 - secured with ccm encryption
 - Implemented FIDO2 basic Attestation for AirID devices
- **NEW BLE Night Mode**
 - switches off BLE advertising / connection from 22:00 - 05:00 or outside working time ranges, if set from remote host
 - new menu item:
 - Settings / BLE Night Mode (options: ON / OFF)
 - can be temporary disabled from Connection menu
 - can be controlled from remote host
- **NEW BLE privacy settings** (switched off by default):
 - battery service can only be accessed if access is authenticated,
 - AirID devices now support random resolvable bluetooth mac addresses, according to Bluetooth Core 5.1
 - AirID devices now implement anonymous bluetooth advertising according to Bluetooth Core 5.0
 - Read BLE Privacy settings from remote host
- **NEW Menu items:**
 - Settings / Random MAC - (options: ON, OFF)
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 - Debug / Fido2 Buffers - Usage for FIDO2 memory buffers
 - Debug / Fido2 Keystore - Shows use of resident FIDO2 keys and max size of keys
 - Debug / Reset FIDO2
 - AirID Info / Device Name (shows custom device name if configured via BLE)

✓ Improvements & Changes

- Implemented protected pin methods for Secure Remote Settings
- Added "Reset Settings" Menu entry - This allows you to reset your AirID Device Settings but all 'user data' like Bluetooth Pairings, LTK Keys and FIDO2 Keys are NOT removed.
- Renamed "Remove Pairings" menu entry to "Reset BLE"
- Renamed "Reset Keys" menu entry to "Reset LTK Keys"
- Added "Reset FIDO2" menu entry - this allows you to remove all FIDO2 keys from your device. You will be asked twice before final removal to prevent accidental removal of FIDO2 keys.
- Changed "Factory Reset" to double confirmation before reset to prevent accidental "Factory Reset"
- Moved all Reset related Menu entries to a improved/more detailed reset menu called "Reset" located under Settings
- Show Connection "OFF" outside working time ranges (during BLE Night mode)
- adapt handling of separate binaries for OTA files
- various resource cleanups to have space for FIDO2
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Nostack builds work as fido2 USB token
- Debug menu is now always visible in "-alpha" and "-beta" releases and will be disabled for "-GA" releases
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- Write new firmware via usb while device is operational
- Implemented a new build mode to allow unattended fido2 tests
- Right justify values in settings menu

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- Fixed uneven display color on A2MX
- Use und return correct return code for update firmware RPC
- Added 'nix' A2MX bootloader OTA updates
- Working time ranges doesn't switch off advertising if dynamic advertising interval is disabled
- Fix USB-serial-only pattern matching for A2MX20[789]X devices
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- fix AAGUID attribute in included basic attestation certificate
- fix for "battery low" issue reported in [COREFW-707](#)
- fixes regarding BLE cancellation and disabling of notifications
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- Removed SET_SETTINGS indication (replaced by a RPC)
- Remove MobDev Finder artifacts from firmware (no function)

AirID 2 Mini
Firmware
Business Edition

2.0.0-GA

Recommended
Update

airid-all-
firmware-
2.0.0.
zip

airid-all-
firmware-2.0.0.
zip.sha2_256

airid-all-
firmware-2.0.0.
zip.pub

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- Removed Functionality

- Removed SET_SETTINGS indication (replaced by a RPC)
- Remove MobDev Finder artifacts from firmware (no function)

AirID 2 Mini Firmware Business Edition	1.4.1-GA	<p> Fixed</p> <ul style="list-style-type: none"> A regression was fixed which resulted in a wrong display of bootloader version in device -> info -> Board version. <p> Improvements</p> <ul style="list-style-type: none"> No improvements. <p> New Functionality (API/SDK)</p> <ul style="list-style-type: none"> No new functionality added. <p> Removed Functionality</p> <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmware-1.4.1.zip	airid-all-firmware-1.4.1.zip.sha2_256	airid-all-firmware-1.4.1.zip.pub
AirID 2 Mini Firmware Business Edition	1.4.0-GA	<p> Fixed</p> <ul style="list-style-type: none"> ensure that local changed settings are sent back to the host side. Don't switch to update mode @ BLE indication "0x0A System Suspend". Improve USB bootloader mode (HW version < 1.1.0) selection Switch off JTAG pins if JTAG is fused <p> Improvements</p> <ul style="list-style-type: none"> Disable dynamic connection interval. Otherwise we might see BLE supervision timeouts. Fix BLE disconnect after pairing and no communication for 3s. Some Android devices keep the BLE connection after pairing and blocks the communication between AirID app and AirID device. Update BLE stack to version 2.13.6 and replace usage of deprecated BLE API methods. Set 2M PHY as preferred PHY (BLE5) Do all BLE related settings before advertising starts A2XX: Switch off BLE when low battery limit is reached (-3.4V). This should prevent from smartcard errors at low battery conditions <p> New Functionality (API/SDK)</p> <ul style="list-style-type: none"> new RPC method 0x16 to switch to bootloader mode from host side Prepare OTA functionality (only for A2MX and A2XX with HW version >= 1.1.0) <p> Removed Functionality</p> <ul style="list-style-type: none"> migrate NVM parameters from old NVM implementation. Note update from FW <= 1.1.1 are no longer supported! Remove BLE indications to trigger update modes (0x04 and 0x0B) Remove "Force 256 Bit" setting. "Force 256 Bit" is always enabled and cannot be disabled anymore. Remove no longer needed settings: Contrast, Signal Strength and Limited Advertising Add connection parameters to BLE event logging and distinguish between A2XX and A2MX timer handles 	Recommended Update	airid-all-firmware-1.4.0.zip	airid-all-firmware-1.4.0.zip.sha2_256	airid-all-firmware-1.4.0.zip.pub
AirID 2 Mini Firmware Business Edition	1.3.2-GA	<p> Fixed</p> <ul style="list-style-type: none"> Shut up USB IRQ noises with older AirID2 hardware revisions -> speed fixes <p> Added</p> <ul style="list-style-type: none"> Disconnect after Bluetooth Pairing when there is no write to AirID service for 3s afterwards Added watchdog to switch off Bluetooth when Battery gets below 3.4V (-0%) to avoid SC failures for power consuming tasks, RSA Keypair generation or other heavy duty operations Added event logging capability for the last ~100 events to AirID2 firmware <ul style="list-style-type: none"> To get an insight view what happens in the BLE stack @ a disconnect, we gather some debug infos: <ul style="list-style-type: none"> Read last ble disconnect reason in debug menu Information about connection parameters New logging data struct for BLE stack events: <ul style="list-style-type: none"> size ~100 last events stop logging @ disconnect read data from new RPC command restart logging after read This feature is currently only available from the DEBUG menu of the AirID2 device and not exposed to any SDK / Driver 	Recommended Update	airid-all-firmware-1.3.2.zip	airid-all-firmware-1.3.2.zip.sha2_256	
AirID 2 Mini Firmware Business Edition	1.3.1-GA	<p>Improved:</p> <ul style="list-style-type: none"> added intelligent flasher "winusb-flash-device.exe" and "flash-airid.command" on MacOS added support for new bootloader signing keys 		airid-all-firmware-1.3.1.zip	airid-all-firmware-1.3.1.zip.sha2_256	
AirID 2 Mini Firmware Business Edition	1.3.0-GA	<p>Improved:</p> <ul style="list-style-type: none"> Support for new USB controller for AirID2 and AirID2 Mini (the same firmware works on both controllers) Low battery warnings are displayed 		airid2mini-fw-1.3.0.zip	airid2mini-fw-1.3.0.zip.sha2_256	

AirID 2 Mini Firmware Business Edition	1.2.1-GA	<p>Improved</p> <ul style="list-style-type: none"> NVM rework to make future firmware updates smooth BLE stack updated to v 2.12.3 Distance sensor presets adjusted: near -70dB, mid -75dB, far -80dB If the device is in USB card reader mode, a new bluetooth connection will not make it leave the USB card reader mode Card support: disabled Clock stop support which seems to cause trouble with TicTok cards For AirID Mini: Linearization of battery level during charging and discharging <p>Note for firmware updates</p> <p> The device settings will be set to default for firmware updates from versions lower than v1.1.1. Please check your device settings after doing the firmware update</p> <p>Note for firmware downgrades</p> <p>If you want to downgrade to 1.1.1, first do a downgrade to 1.1.0, then upgrade to 1.1.1, otherwise NVM in 1.1.1 will not work even after factory reset. If re-updating, do a factory reset.</p> <p>Note for users with version 1.2.0-rc1/rc2</p> <p>For firmware updates from version 1.2.0-rc1/rc2, make sure the USB cable is not connected BEFORE the update process is started. In case the device is already connected via USB, replug the cable to enter the flashing mode.</p>		airid2mini-fw-1.2.1.zip	airid2mini-fw-1.2.1.zip.sha2_256	
AirID 2 Mini Firmware Business Edition	1.1.1-GA	<p>Fixed</p> <ul style="list-style-type: none"> Battery status icon updates with changed battery level Staccato like switching connection off/on doesn't bother BLE handling NVM initialization logic Green LED switches off when Smartcard has been switched off Battery warning appears at 10% battery charge and below Send correct Product Name USB descriptor Send correct Model Number String in GATT characteristics <p>Improved</p> <ul style="list-style-type: none"> Setting maximum and minimum advertising interval to 152.5 ms Setting maximum and minimum fast connection intervals to 15 ms Setting maximum and minimum slow connection intervals to 195/210 ms Don't send duplicated smart card status Keep existing configuration parameters at firmware update; new ones will be added with their default values <p>Known limitations:</p> <ul style="list-style-type: none"> The firmware update might reset the configured settings In the rare case that the BLE connection of the reader can not be switched off by the control element, please restart the reader. For users working with BLE and CCID (USB Card Reader > On) with multiple devices: If there is an active BLE connection and a new connection via CCID is started, the card access via BLE is blocked. Also the other way around: If there is an active CCID connection and a new connection via BLE is started, the card access via CCID is blocked. 		airid2mini-fw-1.1.1.zip	airid2mini-fw-1.1.1.zip.sha2_256	
AirID 2 Mini Firmware Business Edition	1.1.0-GA	<ul style="list-style-type: none"> initial release of AirID 2 Mini Business Edition <p>Known limitations:</p> <ul style="list-style-type: none"> In the rare case that the BLE connection of the reader can not be switched off by the control element, please restart the reader. For users working with BLE and CCID (USB Card Reader > On) with multiple devices: If there is an active BLE connection and a new connection via CCID is started, the card access via BLE is blocked. Also the other way around: If there is an active CCID connection and a new connection via BLE is started, the card access via CCID is blocked. 		airid2mini-fw-1.1.0.zip	airid2mini-fw-1.1.0.zip.sha2_256	



AirID 2 Mini Government



Starting with AirID Firmware version 2.0.0, the AirID2 Mini Government may be used as a smart card reader and as FIDO2 compliant wireless authenticator token.

We appreciate any feedback from you. You may easily sign up at our support & feedback portal at <https://airid.com/service-portal>
[How do I update the AirID device firmware on Windows 10 and MacOS?](#)

Description	Version	Release Notes	Classification	File	Checksum (SHA256)	ed Signature
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AirID 2 Mini Firmware Government Edition	2.0.3-GOV-GA	<h2>Changelog for AirID2 firmware 2.0.3-GOV-GA</h2> <ul style="list-style-type: none"> Known Limitations <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.2 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.2 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.2 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.2 New Functionality <ul style="list-style-type: none"> No new functionality Improvements & Changes <ul style="list-style-type: none"> no new improvements Fixed <ul style="list-style-type: none"> problems with certain CAC cards sending superfluous TCK bytes Removed Functionality <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmwa re-2.0.3.zip	airid-all-firmware-2.0.3.zip.sha2_256	airid-all-firmware-2.0.3.zip.pub
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Prior versions

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AirID 2 Mini Firmware Government Edition	2.0.1-GOV-GA	<h2>Changelog for AirID2 firmware 2.0.1</h2> <p>Known Limitations for V2.0.1:</p> <ul style="list-style-type: none"> Firmware Update from 1.x.x version to 2.0.1 requires Bluetooth re-pairing for paired devices NEW FIDO2 support in V.2.0.1 available for WINDOWS10 devices via BLE only - other platforms will follow. NEW FIDO Support in V2.0.1 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.1 	Recommended Update	airid-all-firmware-2.0.1.zip	airid-all-firmware-2.0.1.zip.sha2_256	airid-all-firmware-2.0.1.zip.pub

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2.0.0-GOV-GA

Recommended Update

[airid-all-firmware-2.0.0-2.0.0.zip](#)

[airid-all-firmware-2.0.0.zip.sha2_256](#)

[airid-all-firmware-2.0.0.zip.pub](#)

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- NEW FIDO Support in V2.0.0 supports currently only FIDO2. FIDO U2F will be supported at a later release. As GOOGLE's fido authentication requires today FIDO U2F, GOOGLE fido authentication is not supported in V2.0.0

+ New Functionality

- **NEW BLE support for FIDO2, in parallel with the existing Smartcard/PKI service**
 - Enable parts of FIDO 2.1 needed for some FIDO 2.1 extensions
 - FIDO2 User presence test is implemented via display/jogdial for now
 - AirID devices without external flash can store up to 12 resident keys. For "-beta1" **only** internal storage is used
 - external flash is now used for storing resident FIDO2 keys rk-store (A2XX HW rev >= 1.1.0 and A2MX >= 1.0.0 only)
 - can store up to 200 resident keys
 - secured with ccm encryption
 - Implemented FIDO2 basic Attestation for AirID devices
- **NEW BLE Night Mode**
 - switches off BLE advertising / connection from 22:00 - 05:00 or outside working time ranges, if set from remote host
 - new menu item:
 - Settings / BLE Night Mode (options: ON / OFF)
 - can be temporarily disabled from Connection menu
 - can be controlled from remote host
- **NEW BLE privacy settings** (switched off by default):
 - battery service can only be accessed if access is authenticated,
 - AirID devices now support random resolvable bluetooth mac addresses, according to Bluetooth Core 5.1
 - AirID devices now implement anonymous bluetooth advertising according to Bluetooth Core 5.0
 - Read BLE Privacy settings from remote host
- **NEW Menu items:**
 - Settings / Random MAC - (options: ON, OFF)
 - Settings / Advertising - (options: ANONYMOUS, "WITH NAME")
 - Settings / Reset Device Name (only visible if custom device name was configured via BLE, resets to S/N default)
 - Debug / Fido2 Buffers - Usage for FIDO2 memory buffers
 - Debug / Fido2 Keystore - Shows use of resident FIDO2 keys and max size of keys
 - Debug / Reset FIDO2
 - AirID Info / Device Name (shows custom device name if configured via BLE)

✓ Improvements & Changes

- Implemented protected pin methods for Secure Remote Settings
- Added "Reset Settings" Menu entry - This allows you to reset your AirID Device Settings but all 'user data' like Bluetooth Pairings, LTK Keys and FIDO2 Keys are NOT removed.
- Renamed "Remove Pairings" menu entry to "Reset BLE"
- Renamed "Reset Keys" menu entry to "Reset LTK Keys"
- Added "Reset FIDO2" menu entry - this allows you to remove all FIDO2 keys from your device. You will be asked twice before final removal to prevent accidental removal of FIDO2 keys.
- Changed "Factory Reset" to double confirmation before reset to prevent accidental "Factory Reset"
- Moved all Reset related Menu entries to a improved/more detailed reset menu called "Reset" located under Settings
- Show Connection "OFF" outside working time ranges (during BLE Night mode)
- adapt handling of separate binaries for OTA files
- various resource cleanups to have space for FIDO2
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Nostack builds work as fido2 USB token
- Debug menu is now always visible in "-alpha" and "-beta" releases and will be disabled for "-GA" releases
- reduced max apdu lengths: 5000 bytes (A2XX) and 5000 bytes (A2MX)
- option to pass USBHID data through RPC 0x17 (if not used, it will be removed again), should not be used simultaneously with official FIDO ble service. Purpose is to evaluate virtual usb fido device stuff
- Enhanced Connected Menu to allow new privacy modes
 - OFF
 - ON/Waiting (anonymous advertising)
 - ON/Pairing (advertising with device name)
- added more information in device descriptor
- Implemented a introspection method (RPC 0) to get the list of supported RPC commands in advance for this FW version
- RPC_SET_SETTING: preferred way to set things now. Indication will be removed in future
- Write new firmware via usb while device is operational
- Implemented a new build mode to allow unattended fido2 tests
- Right justify values in settings menu

✓ Fixed

- Use and return correct return code for update firmware RPC
- Added 'nix' A2MX bootloder OTA updates
- Working time ranges doesn't switch off advertising if dynamic advertising interval is disabled
- Fix USB-serial-only pattern matching for A2MX20[789]X devices
- fixed a advertising data size error
- NVM error handling fixes
- Factory reset also erases keys on external storage now
- fix AAGUID attribute in included basic attestation certificate
- fix for "battery low" issue reported in [COREFW-707](#)
- fixes regarding BLE cancellation and disabling of notifications
- fixes regarding pairing device list retrieval

− Removed Functionality

- Removed SET_SETTINGS indication (replaced by a RPC)
- Remove MobDev Finder artifacts from firmware (no function)

AirID 2 Mini Firmware Government Edition	1.4.1-GOV-GA	<p> Fixed</p> <ul style="list-style-type: none"> A regression was fixed which resulted in a wrong display of bootloader version in device -> info -> Board version. <p> Improvements</p> <ul style="list-style-type: none"> No improvements. <p> New Functionality (API/SDK)</p> <ul style="list-style-type: none"> No new functionality added. <p> Removed Functionality</p> <ul style="list-style-type: none"> No functionality removed 	Recommended Update	airid-all-firmware-1.4.1.zip	airid-all-firmware-1.4.1.zip.sha2_256	airid-all-firmware-1.4.1.zip.pub
AirID 2 Mini Firmware Government Edition	1.4.0-GOV-GA	<p> Fixed</p> <ul style="list-style-type: none"> ensure that local changed settings are sent back to the host side. Don't switch to update mode @ BLE indication "0x0A System Suspend". Improve USB bootloader mode (HW version < 1.1.0) selection Switch off JTAG pins if JTAG is fused <p> Improvements</p> <ul style="list-style-type: none"> Disable dynamic connection interval. Otherwise we might see BLE supervision timeouts. Fix BLE disconnect after pairing and no communication for 3s. Some Android devices keep the BLE connection after pairing and blocks the communication between AirID app and AirID device. Update BLE stack to version 2.13.6 and replace usage of deprecated BLE API methods. Set 2M PHY as preferred PHY (BLE5) Do all BLE related settings before advertising starts A2XX: Switch off BLE when low battery limit is reached (~3.4V). This should prevent from smartcard errors at low battery conditions <p> New Functionality (API/SDK)</p> <ul style="list-style-type: none"> new RPC method 0x16 to switch to bootloader mode from host side Prepare OTA functionality (only for A2MX and A2XX with HW version >= 1.1.0) <p> Removed Functionality</p> <ul style="list-style-type: none"> migrate NVM parameters from old NVM implementation. Note update from FW <= 1.1.1 are no longer supported! Remove BLE indications to trigger update modes (0x04 and 0x0B) Remove "Force 256 Bit" setting. "Force 256 Bit" is always enabled and cannot be disabled anymore. Remove no longer needed settings: Contrast, Signal Strength and Limited Advertising Add connection parameters to BLE event logging and distinguish between A2XX and A2MX timer handles 	Recommended Update	airid-all-firmware-1.4.0.zip	airid-all-firmware-1.4.0.zip.sha2_256	airid-all-firmware-1.4.0.zip.pub
AirID 2 Mini Firmware Business Edition	1.3.2-GOV-GA	<p> Fixed</p> <ul style="list-style-type: none"> Shut up USB IRQ noises with older AirID2 hardware revisions -> speed fixes <p> Added</p> <ul style="list-style-type: none"> Disconnect after Bluetooth Pairing when there is no write to AirID service for 3s afterwards Added watchdog to switch off Bluetooth when Battery gets below 3,4V (-0%) to avoid SC failures for power consuming tasks, RSA Keypair generation or other heavy duty operations Added event logging capability for the last ~100 events to AirID2 firmware <ul style="list-style-type: none"> To get an insight view what happens in the BLE stack @ a disconnect, we gather some debug infos: <ul style="list-style-type: none"> Read last ble disconnect reason in debug menu Information about connection parameters New logging data struct for BLE stack events: <ul style="list-style-type: none"> size ~100 last events stop logging @ disconnect read data from new RPC command restart logging after read This feature is currently only available from the DEBUG menu of the AirID2 device and not exposed to any SDK / Driver 	Recommended Update	airid-all-firmware-1.3.2.zip	airid-all-firmware-1.3.2.zip.sha2_256	
AirID 2 Mini Firmware Government Edition	1.3.1-GOV-GA	<p>Improved:</p> <ul style="list-style-type: none"> added intelligent flasher "winusb-flash-device.exe" and "flash-airid.command" on MacOS added support for new bootloader signing keys 		airid-all-firmware-1.3.1.zip	airid-all-firmware-1.3.1.zip.sha2_256	
AirID 2 Mini Firmware Government Edition	1.3.0-GOV-GA	<p>Improved:</p> <ul style="list-style-type: none"> Support for new USB controller for AirID2 and AirID2 Mini (the same firmware works on both controllers) Low battery warnings are displayed 		airid2mini-fw-1.3.0-GOV.zip	airid2mini-fw-1.3.0-GOV.zip.sha2_256	

AirID 2 Mini Firmware Government Edition	1.1.1-GOV-GA	<p>fixed</p> <ul style="list-style-type: none"> Battery status icon updates with changed battery level Staccato like switching connection off/on doesn't bother BLE handling NVM initialization logic Green LED switches off when Smartcard has been switched off Battery warning appears at 10% battery charge and below Send correct Product Name USB descriptor Send correct Model Number String in GATT characteristics <p>improved</p> <ul style="list-style-type: none"> Setting maximum and minimum advertising interval to 152.5 ms Setting maximum and minimum fast connection intervals to 15 ms Setting maximum and minimum slow connection intervals to 195/210 ms Don't send duplicated smart card status Keep existing configuration parameters at firmware update; new ones will be added with their default values <p>Known limitations:</p> <ul style="list-style-type: none"> The firmware update might reset the configured settings In the rare case that the BLE connection of the reader can not be switched off by the control element, please restart the reader. For users working with BLE and CCID (USB Card Reader > On) with multiple devices: If there is an active BLE connection and a new connection via CCID is started, the card access via BLE is blocked. Also the other way around: If there is an active CCID connection and a new connection via BLE is started, the card access via CCID is blocked. 		airid2mini-fw-1.1.1-GOV.zip	airid2mini-fw-1.1.1-GOV.zip.sha2_256	
AirID 2 Mini Firmware Government Edition	1.1.0-GOV-GA	<ul style="list-style-type: none"> initial release of AirID 2 Mini Government Edition <p>Known limitations:</p> <ul style="list-style-type: none"> In the rare case that the BLE connection of the reader can not be switched off by the control element, please restart the reader. For users working with BLE and CCID (USB Card Reader > On) with multiple devices: If there is an active BLE connection and a new connection via CCID is started, the card access via BLE is blocked. Also the other way around: If there is an active CCID connection and a new connection via BLE is started, the card access via CCID is blocked. 		airid2mini-fw-1.1.0-GOV.zip	airid2mini-fw-1.1.0-GOV.zip.sha2_256	



AirID 2 Beta Firmware for AirID2 and AirID2 Mini

The AirID2 Beta Firmware is provided to you for testing and evaluation purpose of AirID2 smart cards reader devices and **shall not** be used in production environments or on production devices.

ALTHOUGH UTILIZABLE BY EXPERIENCED USERS, AIRID2 BETA FIRMWARE IS STILL BEING DEVELOPED, TESTED and EVALUATED. THIS AIRID2 FIRMWARE HAS NOT BEEN RELEASED FOR SALE, DISTRIBUTION OR ANY USE BY THE GENERAL PUBLIC. AIRID2 BETA FIRMWARE IS PROVIDED TO YOU "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE. USE OF AIRID2 BETA FIRMWARE IS ENTIRELY AT YOUR OWN RISK AND MAY VOID WARRANTY ON YOUR PRODUCT. SHOULD AIRID2 BETA FIRMWARE PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY MAINTENANCE, SERVICING OR REPAIR. IT IS THEREFORE YOUR RESPONSIBILITY TO TAKE ADEQUATE PRECAUTION AGAINST POSSIBLE DAMAGES RESULTING FROM THE USE OF AIRID2 BETA FIRMWARE. AIRID2 BETA FIRMWARE SHOULD UNDER NO CIRCUMSTANCES BE USED ON SENSITIVE AND/OR VALUABLE DATA. IF YOU ARE IN ANY DOUBT, PLEASE DO NOT INSTALL AND/OR USE AIRID2 BETA FIRMWARE. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CERTGATE GMBH WILL NOT BE LIABLE TO YOU FOR ANY DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE AIRID2 BETA FIRMWARE (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF AIRID2 BETA FIRMWARE TO OPERATE WITH ANY OTHER PROGRAMS). IN NO EVENT SHALL CERTGATE GMBH LIABILITY EXCEED THE PRICE YOU PAID FOR AIRID2 BETA FIRMWARE, IF APPLICABLE. WE EXPRESSLY REPRESENT THAT AIRID2 BETA FIRMWARE IS NOT A FINAL PRODUCT AND, AS SUCH, MAY CONTAIN VARIOUS ERRORS, DEFECTS AND IT MAY BE UNSTABLE. WE DO NOT RECOMMEND INSTALLING AIRID2 BETA FIRMWARE DURING FULL OR EVERYDAY OPERATION. FURTHERMORE, WE DO NOT RECOMMEND TO INSTALL AIRID2 BETA FIRMWARE UNLESS YOU ARE AN EXPERIENCED USER.

[How do I update the AirID device firmware on Windows 10 and MacOS?](#)

Description	Version	Release Notes	Classification	File	Checksum (SHA256)
-	-	NO AIRID BETA FIRMWARE AVAILABLE	Beta Firmware / NOT for production use	-	-

AirID 1 Business



[How do I update the AirID device firmware on Windows 10 and MacOS?](#)

Description	Version	Release Notes	File	Checksum (SHA256)
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AirID 1 Firmware Business Edition	1.2.5	New or changed: <ul style="list-style-type: none"> disconnect after pairing and no action after 3s to fix Android 8+ Pairing Issue 	AirID_FW_CC2540_v1.2.5.zip	AirID_FW_CC2540_v1.2.5.zip.sha2_256
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Prior versions

Description	Version	Release Notes	File	Checksum (SHA256)
AirID 1 Firmware Business Edition	1.2.4	New or changed: <ul style="list-style-type: none"> Changed connection factory default to "ON/waiting" after Settings > Factory Reset No splash screen after device reboot Fixed issues: <ul style="list-style-type: none"> Display charging status correctly if USB Card Reader mode is disabled Display correct device name after Settings >reset keys AirID freezing after initial pairing / connection with Android fixed by watchdog enabling Android stability improvements: <ul style="list-style-type: none"> Stability improvements if connection interval is set too low, e.g. 7.5ms No connection interval update on idle 	AirID_FW_CC2540_v1.2.4.zip	AirID_FW_CC2540_v1.2.4.zip.sha2_256
AirID 1 Firmware Business Edition	1.2.2	Performance related changes: <ul style="list-style-type: none"> Adjustment of low battery limit to avoid problems due to low battery Fix initial card state in USB reader mode on windows 7 More error checks in case of connection loss Connection interval handling improvements Default signal strength to maximum <p>Please set signal strength to "maximum" to ensure best wireless AirID connection</p>	AirID_FW_CC2540_v1.2.2.zip	AirID_FW_CC2540_v1.2.2.zip.sha2_256
AirID 1 Firmware Business Edition	1.2.1	Security related changes: <ul style="list-style-type: none"> Improved protection for replay attacks <ul style="list-style-type: none"> Improvement of encryption algorithm: using CCM instead of ECB Improvement of Session Key management Improved protocol downgrade protection <ul style="list-style-type: none"> Implementation of „Force 256bit mode“ so that AirID cannot be forced down to communicate with AES 128bit encryption. Force 256bit mode is enabled per default Performance related changes: <ul style="list-style-type: none"> Reduction of power consumption <ul style="list-style-type: none"> Power down the smart card on out-of-coverage Have a higher connection interval when there is no BLE traffic for some time Correct rates in USB CCID descriptor Improved Android compatibility (discovering of our GATT service) Usability related changes: <ul style="list-style-type: none"> Smart card icon on AirID display blinks when the card is powered on New setting menu item „USB card reader mode“ so that the USB cardreader mode can be enabled by default when USB is connected 	AirID_FW_CC2540_v1.2.1.zip	AirID_FW_CC2540_v1.2.1.zip.sha2_256
AirID 1 Firmware	1.2.0	<ul style="list-style-type: none"> Set official vendor/product id for usb; Removed highest signal strength level; Fixed not showing name of the connected device when the card is out; Fixed not clearing mobile device name on connection timeout; Write default device name "Unknown Nr." after pairing and show it if device name not set; Changed coverage adjusting text: first 10 seconds show RSSI value then 5 seconds show "Press to confirm" message and then again show RSSI value; Extended coverage with presetting values: near, mid, far; Fixed still showing coverage menu if device disconnected (now jumps to the start menu); Added "back" buttons in the coverage menu. 	AirID_FW_CC2540_v1.2.0.zip	AirID_FW_CC2540_v1.2.0.zip.sha2_256

AirID 1 Government



[How do I update the AirID device firmware on Windows 10 and MacOS?](#)

Description	Version	Release Notes	File	Checksum (SHA256)
AirID1 Firmware Government Edition	1.3.5-GOV	New or changed: <ul style="list-style-type: none"> disconnect after pairing and no action after 3s to fix Android 8+ Pairing Issue 	AirID_FW_CC2540_v1.3.5-GOV.zip	AirID_FW_CC2540_v1.3.5-GOV.zip.sha2_256

Prior versions

Description	Version	Release Notes	File	Checksum (SHA256)
AirID1 Firmware Government Edition	1.3.4-GOV	New or changed: <ul style="list-style-type: none"> Changed connection factory default to "ON/waiting" after Settings > Factory Reset No splash screen after device reboot Fixed issues: <ul style="list-style-type: none"> Display charging status correctly if USB Card Reader mode is disabled Display correct device name after Settings > reset keys AirID freezing after initial pairing / connection with Android fixed by watchdog enabling Android stability improvements: <ul style="list-style-type: none"> Stability improvements if connection interval is set too low, e.g. 7.5ms No connection interval update on idle 	AirID_FW_CC2540_v1.3.4-GOV.zip	AirID_FW_CC2540_v1.3.4-GOV.zip.sha2_256
AirID1 Firmware Government Edition	1.3.1-GOV	Performance related changes: <ul style="list-style-type: none"> Adjustment of low battery limit to avoid problems due to low battery Fix initial card state in USB reader mode on windows 7 More error checks in case of connection loss Connection interval handling improvements Default signal strength to maximum Please set signal strength to "maximum" to ensure best wireless AirID connection	AirID_FW_CC2540_v1.3.1-GOV.zip	AirID_FW_CC2540_v1.3.1-GOV.zip.sha2_256

AirID Bridge



[How do I update the AirID BRIDGE firmware on Windows 10, Windows 7 and MacOS?](#)

Description	Version	Release Notes	File	Checksum (SHA256)
AirID Bridge Firmware	1.0.2	fixed: <ul style="list-style-type: none"> sleep related problems 	onekey-bridge-1.0.2-prodkey.zip	onekey-bridge-1.0.2-prodkey.zip.sha2_256

Prior versions

Description	Version	Release Notes	File	Checksum (SHA256)
AirID Bridge Firmware	1.0.1	fixed: <ul style="list-style-type: none"> CCM tag check problems getting ExtProp descriptor 	onekey-bridge-1.0.1-prodkey.zip	onekey-bridge-1.0.1-prodkey.zip.sha2_256
AirID Bridge Firmware	1.0.0	<ul style="list-style-type: none"> USB command GetDeviceName (0x13) returns only 1 NULL termination minor bug fixes 	onekey-bridge-1.0.0-prodkey.zip	onekey-bridge-1.0.0-prodkey.zip.sha2_256