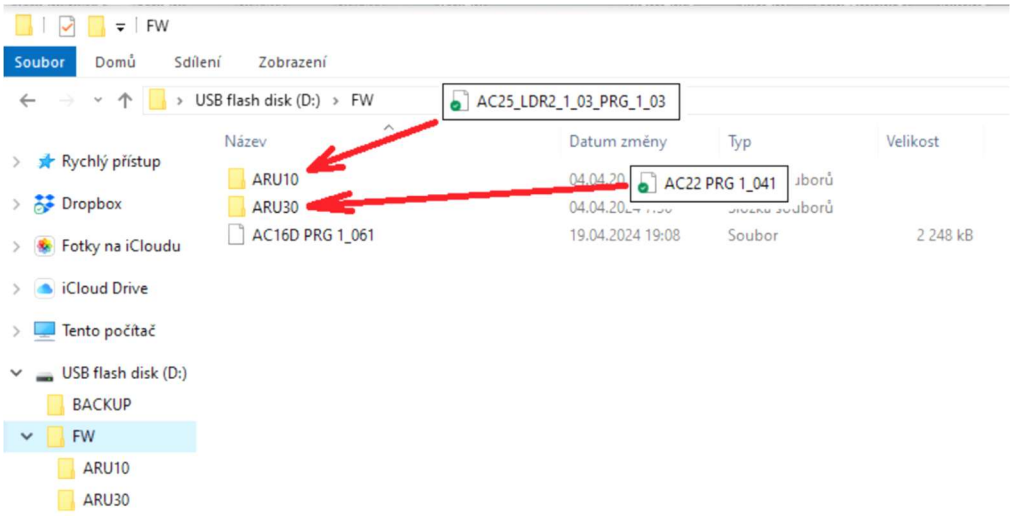
ACD 03 (04) - Postup upgradu softwaru na verzi FW2.01

New wireless communication functions can only be unlocked on the ACD03(04) controller starting from FW version 2.00 onward, which means a software upgrade is required. These instructions describe the migration from older versions to the latest FW 2.00 and above

The difference between individual software versions is fundamentally also in the program bootloader (LDR loader), so it is generally recommended to upgrade (flash newer versions) incrementally. For example, when upgrading from version 1.03, it is recommended to save software 1.04 onto the SD card and perform the upgrade. Subsequently, replace the software on the SD card with version 1.05 and repeat the procedure until reaching the latest software. Skipping multiple versions at once is possible, but compatibility is not guaranteed (a controller running an older version might not recognize the new software version file on the SD card).

For FW versions 1.00 to FW 1.061 of the ACD 03(04) controller, the program file structure on the SD card is organized as follows:



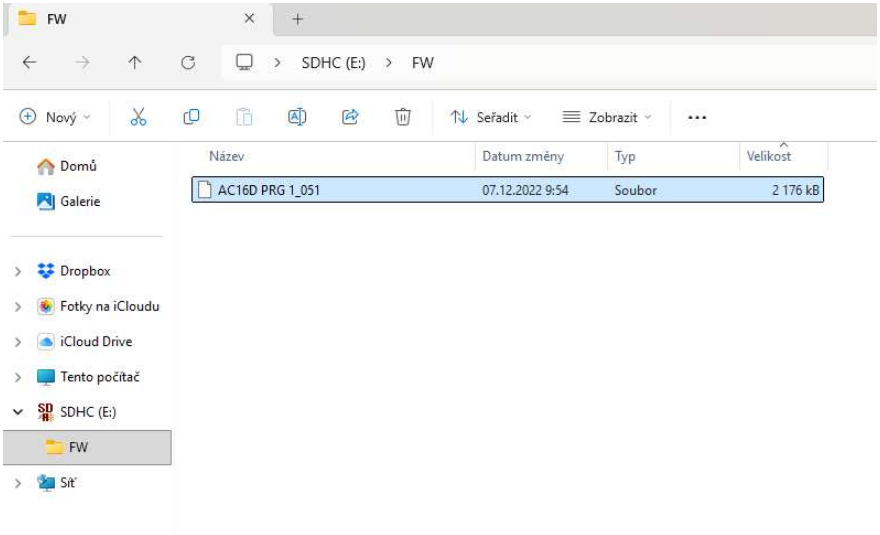
- In the root directory of the SD card, there is a folder (directory) named FW.
- Inside the FW folder, there is a file for the ACD 03(04) controller labeled AC16D PRG version, e.g., 1.01, 1.02, 1.03, 1.04, 1.05, 1.06, or a subversion, e.g., 1.061, etc.
- Inside the FW folder, there are also the following subfolders:
    - ARU10 containing a file such as AC25_LDR2_1_02_PRG_1_02
    - ARU30 containing a file such as AC22 PRG 1_031
- In the root directory alongside FW, there is also a BACKUP folder; if it does not exist, it is automatically created after creating a settings backup in the ACD 03(04) controller, containing the BACKUP.bck file.
- The root directory may also contain a manually created OLD folder, where original program versions can be archived.

WARNING:

- NEVER allow 2 files (e.g., a new and an old version) to be stored in the same location
- A file MUST NEVER be placed in a location other than specified in this manual; otherwise, the program bootloader (LDR loader) will not find it and will subsequently be unable to update the device

NOTE:

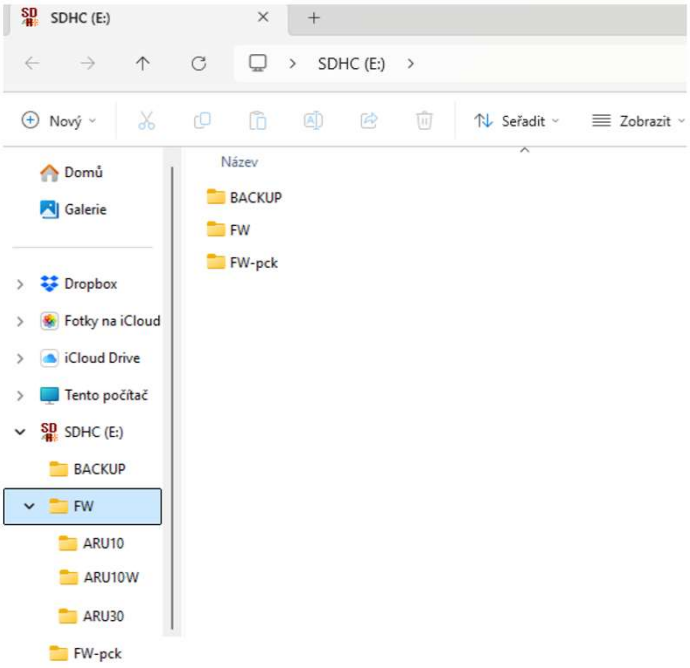
- Because SD card hardware designs also evolve over time, older bootloader versions may fail to read the SD card structure correctly and may be unable to locate the program file on the card. In this case, it is recommended to simplify the folder structure for updating the ACD03(04) controller: the SD card will contain only the FW folder (directory) with just the ARU10 folder and its program; after updating that unit, only with the ARU30 folder; and finally only with the file for the ACD 03(04) controller, i.e., AC16D PRG of a higher version (e.g., 1.051)

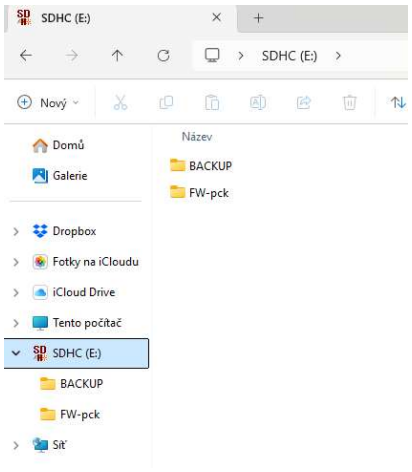


Up to FW version 1.51, software updates on individual devices (ARU room units) were performed only separately, followed by the ACD 03(04) controller, with the controller always locating the file in the appropriate folder on the SD card.

From FW version 1.06 onward, the system enables a batch update, where ARU room units are updated automatically one by one, and finally, the update of the ACD03 (04) controller itself is launched manually, again with the controller locating the file in the corresponding folder on the SD card. The update sequence starting from the peripheral devices through to the controller itself is the only correct method and should also be followed during manual updates of individual devices.

Because starting from FW version 2.00 it is possible to connect a range of wireless devices - such as sensors, room units, and repeaters - to the ACD 03(04) controller, keeping track of the validity and proper placement of software files for all these devices would be complex and confusing. For this reason, starting from FW version 2.00, only a single file package is stored in the FW-pck directory on the SD card of the WG1000 wireless gateway, containing all the necessary files for the wireless devices. Furthermore, because the ARU10W wireless room unit can also be connected via wire - meaning it will be updated by the ACD 03(04) controller rather than the Wi-Fi gateway - the FW folder must additionally contain an ARU10W folder with the program for the AC24 device





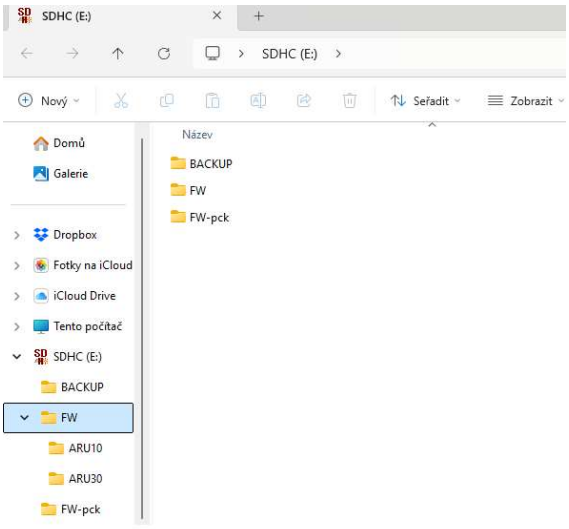
Updating from a single file package for the ACD 03(04) controller and ARU10 and ARU30 wired units is anticipated in the next software release and should therefore be designated as **FW 2.1.** From this version onward, it will practically no longer be necessary for the SD card of the ACD 03 (04) controller to retain the FW directory with the ARU10 and ARU30 subfolders; however, if left stored there, it will allow older-version controllers to be updated easily. Because this file package will be identical for both the ACD 03 (04) controller and the WG1000 Wi-Fi gateway starting from FW version **2.1**, the SD card content for the ACD03(04) controller and the WG1000 Wi-Fi gateway will be unified into the same structure as part of the standardization process from **FW 2.1** onward.

File package designation example: **FW_2.00_20250919.pck**, where the FW version number indicates which release the package belongs to + the package release date. If software changes, for instance, for a single sensor while still falling under the same version, a new package will be released with the same software version number but with a new date. If an entirely new software version is released, all files inside the package will be updated to ensure compatibility, and both the release date and the software version number will change in the file designation. Based on the stored version, the update option will then be automatically offered for individual devices in the WG1000 gateway management utility, see https://wg1000.local.

Example update procedure:

If it is necessary to update the ACD03(04) controller from a version such as FW 1.061 to the "wireless-enabled" FW 2.00 version and the required files have not been downloaded to a computer in advance, follow these steps:

- Remove the SD card from the WG1000 Wi-Fi gateway, create a copy of it on a computer, and return the card back into the gateway
- Remove the SD card from the ACD03(04) controller
- Wipe its contents and transfer onto it the contents of the WG1000 gateway SD card (including the FW and FW-pck directories)
- Insert the SD card back into the ACD03(04) controller
- In the System menu, parameter 30, create a settings backup of the ACD 03(04) controller
- Update the connected ARU10 and ARU30 room units individually (menu Hydraulics/ Communication/Room units/ARUa,b…/Update) or via Batch update (see System menu, parameter 32)



Program files, manuals, and the security certificate can also be downloaded from www.atmos.eu or requested from technical support at support@atmos.eu.